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35th Edition







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Sectional Index

	Pages	
Tubing / Hose & Accessories	13 - 69	1
Sheet / Shape & Accessories	70 - 84	2
Pipe / Fittings & Accessories Piping Systems	85 - 216	3
Valves & Filtration	217 - 387	4
Instrumentation pH, Flow & Level Controls	388 - 451	5
Pumps	452 - 489	6
Tanks / Mixers & Accessories	490 - 561	7
Support Systems & Accessories	562 - 580	8
Technical Data	581 - 605	9
Credit Application	606	10
Detailed Index	2 - 11 607 - 616	
Chemical Resistance Guides	Contact Sales Office	

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Detailed Index

A

Ace Roto-Mold Tanks : 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545
Ace Tank Lids : 558
Acetal Tube Fittings : 33, 34, 35, 42
Actuated 3-Way Ball Valves : 271, 272, 273
Actuated Accessories, Electric : 254, 258, 318
Actuated Accessories, Pneumatic : 265, 318
Actuated Ball Valves : 250, 251, 252, 253, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 266, 267, 268, 269, 270
Actuated Butterfly Valves : 313, 314, 315, 316, 317, 318, 319
Actuated Control Ball Valves : 235, 237
Actuated Diaphragm Valves : 325, 326, 327, 328, 329, 330, 331
Actuators, Electric : 300, 301
Actuators, Pneumatic : 299
Aickinstrut Fiberglass Channel Framing System : 567, 568, 569, 570
Air Line System : 128, 129
Air Mixers : 492
Air Operated Drain Valves : 353
Air Operated Shut Off Valves : 352
Alarm Systems : 448, 450
ALSCO Credit Application : 606
ALSCO Sight Glasses : 380
American Granby PVC Saddle Tees : 116
Anti-Vortex Plate Assembly : 59
Applicator Tanks : 533, 536, 537, 538, 543
Asahi 3-Way Ball Valves : 245
Asahi Air-Pro Compressed Air Piping System : 126, 127
Asahi Ball Check Valves : 280, 281
Asahi Ball Valves : 217, 218, 230
Asahi Butterfly Valves : 307, 308, 309, 310, 311
Asahi Constant Flow Valves : 334
Asahi Diaphragm Valves : 320, 321
Asahi Duo-Bloc Ball Valves : 217, 218
Asahi Duo-Pro Double Containment Piping System : 177
Asahi Electric Actuated Options : 254
Asahi Electrically Actuated Ball Valves : 250, 251, 252, 253
Asahi Electrically Actuated Butterfly Valves : 313, 314
Asahi Electromni Electric Actuated Ball Valves : 255
Asahi Flange Gaskets : 62
Asahi Gate Valves : 332
Asahi Globe Valves : 333
Asahi Horizontal Swing Check Valves : 284
Asahi Omni Ball Valves : 230
Asahi Pneumatic Actuated Options : 265
Asahi Pneumatically Actuated Ball Valves : 261, 262, 263, 264
Asahi Pneumatically Actuated Butterfly Valves : 319
Asahi Pneumatically Actuated Diaphragm Valves : 326, 327
Asahi Stopcock Valves : 336
Asahi Welding Machines : 82
Asahi Y-Strainers : 372
ASCO Slow Closing Solenoid Valves : 356
Assmann Tanks : 546, 547, 548, 549, 550, 551, 552

B

Bag Filters : 379
Ball Check Valves : 276, 277, 278, 279, 280, 281
Ball Valves : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 241, 242, 337
Ball Valves, 3-Way : 245, 246, 247, 248, 249
Ball Valves, 3-Way PP Bolted : 241
Ball Valves, Asahi : 217, 218, 230
Ball Valves, Banjo : 239, 240, 241, 242
Ball Valves, Cepex : 224
Ball Valves, Chemtrol : 227, 228
Ball Valves, Clear PVC : 102
Ball Valves, Colonial : 222, 230
Ball Valves, Control : 232, 233, 234, 235, 236, 237
Ball Valves, GF : 219, 220, 221
Ball Valves, Hayward : 225, 226, 230, 232
Ball Valves, Metering : 232, 233, 234, 235, 236, 237
Ball Valves, Nil-Cor : 229
Ball Valves, Plast-O-Matic : 223, 224
Ball Valves, PP Bolted : 239, 240, 241, 242
Ball Valves, Single Union PP : 241
Ball Valves, Spears : 222
Ball Valves, Stainless Steel : 39, 236, 238
Ball Valves, True Union : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 232
Banjo 3-Way Electric Valves : 275
Banjo 3-Way PP Bolted Ball Valves : 241
Banjo 316 SS Cam and Groove Fittings : 46
Banjo ANSI Flange Valves : 240
Banjo Bulkhead Fittings : 55
Banjo Cast Iron Pumps : 489
Banjo Dry-Mates : 243, 244
Banjo Electric Valves : 274
Banjo FDA Union Valves : 335
Banjo Flange Gasket : 62
Banjo Flow Meters : 364
Banjo HD Pipe : 48
Banjo Hose Barb Fittings : 48, 49
Banjo Line Strainers : 373, 374, 375
Banjo Manifold Fittings : 365, 366, 367, 368
Banjo Manifold Flange Connections : 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370
Banjo Manifold Inductor System : 364
Banjo Manifold Line Strainers : 369
Banjo Manifold Tank Fittings : 370
Banjo PP Air Actuated Shutoff Valves : 335
Banjo PP Bolted Ball Valves : 239
Banjo PP Bolted Stubby Ball Valves : 242
Banjo PP Cam and Groove Fittings : 45
Banjo PP Check Valves : 335
Banjo PP Micro Valves : 231
Banjo PP Nozzle Valves : 240
Banjo PP Pumps : 488
Banjo Single Union PP Ball Valves : 241
Banjo Stainless Steel Ball Valves : 238
Banjo Stainless Steel Pumps : 489
Banjo Super Clamps : 51
Banjo T-Bolt Hose Clamps : 51
Banjo Tank Accessories : 559
Banjo Tank Lids : 559
Banjo Two Barrel Hardware Clamps : 50
Banjo Y-Strainers : 375
Barbed Tube Fittings : 36, 37
Basket Strainers : 376, 377, 378
Baskets, Replacement : 378
Batch Tanks : 527, 528
Beam Clamps : 579
Beckson Drum Pumps : 452
Bee Valve Cam and Grove Fittings : 44
Bee Valve Quick Connector Couplings : 42, 43
Bevelers : 124
Black Polypropylene Schedule 80 Fittings : 132, 133
Black Polypropylene Schedule 80 Pipe : 132
Blacoh Pulsation Dampeners : 483
Blacoh Spilltop : 482
Bleed Valves : 291, 292
Blue Monster PTFE Thread Seal Tape : 103, 122
Blue-White Flowmeters : 383, 384, 385, 386, 387
Bolt Kits : 60, 61
Bolt Kits, Butterfly : 60
Bolt Kits, Flange to Flange : 61

Detailed Index

Bolts, PVC/PP : 75
Bonomi Actuated Control Ball Valves : 237
Bonomi Control Ball Valves : 236
Bonomi Mini Stainless Steel Ball Valve : 238
Braid Reinforced Clear PVC Tubing : 16
Bulkhead Fittings : 52, 53, 54, 55, 56, 57, 58, 59
Bulkhead Gaskets : 54
Butterfly Valve Bolt Kits : 60
Butterfly Valves : 129, 294, 295, 296, 297, 298, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312
Butterfly Valves, Asahi : 307, 308, 309, 310, 311
Butterfly Valves, BVC : 312
Butterfly Valves, Cepex : 302
Butterfly Valves, Delta-T : 294, 295, 296, 297, 298
Butterfly Valves, Ductile Iron : 295, 297
Butterfly Valves, GF : 302, 303, 304
Butterfly Valves, Hayward : 305, 306
Butterfly Valves, Lug Style : 297, 298, 304, 305, 308, 312
Butterfly Valves, Nil-Cor : 311
Butterfly Valves, Stainless Steel : 296, 298, 308
Butterfly Valves, Wafer Style : 295, 296, 302, 303, 306, 307, 309, 310, 311, 312
BVC Butterfly Valves : 312

C

Cam and Groove Fittings : 44, 45, 46, 47
Cartridge Filters : 379
Casework : 76
Cast Iron Pumps : 489
Celcon Tube Fittings : 28, 29, 30, 31, 32
Cement and Primer Applicators : 122
Cements, Primers and Cleaners : 119, 120, 121
Centra-Guard Leak Detection System : 175
Centrifugal Pumps : 460, 461, 462, 463, 464
Centurion Molded Fiberglass Grating : 564
Century Bulkhead Fittings : 54
Cepex Air/Vacuum Relief Valves : 293
Cepex Ball Valves : 224
Cepex Butterfly Valves : 302
Cepex Double Union Ball Check Valves : 279
Cepex Double Union Spring Check Valves : 279
Cepex Industrial True Union Ball Valves : 224
Cepex Wafer Check Valves : 289
Champion Wafer Check Valves : 287
Channel, Accessories : 569, 570, 573, 574, 575, 576, 577, 578, 579, 580
Channel, Fiberglass : 567
Channel, Fiberglass Fittings : 568
Channel, Metal : 573
Check Valves : 155, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 287, 288, 289, 335
Check Valves, Ball : 276, 277, 278, 279, 280, 281
Check Valves, Clear PVC : 102
Check Valves, Self Closing : 283
Check Valves, Spring : 279
Check Valves, Swing : 284, 285, 286
Check Valves, Wafer : 287, 288, 289
Chemical Metering Pumps : 486
Chemical Transfer Pumps : 454, 455, 456, 457, 458
Chemtainer Tanks : 553, 554, 555, 556, 557
Chemtrol Ball Check Valves : 278
Chemtrol Ball Valves : 227, 228
Chemtrol Black PP Schedule 80 Piping System : 132, 133
Chemtrol Natural PP Schedule 80 Piping System : 130, 131
Chemtrol Natural Schedule 80 PVDF Piping System : 148, 149
Chemtrol Red PVDF Schedule 80 Piping System : 150, 151
Chemtrol Tru-Bloc True Union Ball Valves : 227
Chemtrol True Union Ball Valves : 228
Chlorine Systems : 425
Cistern Tanks : 540, 541, 542
Clamps, Double Bolt : 23
Clamps, Hose : 50
Clamps, Stainless Steel Hose : 51
Cleaners, Cements and Primers : 120
Clear PVC Pipe and Fittings : 100, 101
Clear PVC Reinforced Tubing : 16, 17
Clear PVC Schedule 80 Nipples : 101
Clear PVC Tubing : 13, 14, 15
Clear Reinforced Vacuum/Pressure Hose : 17
Clear UV Resistant PVC Pipe : 103
Clear Y-Strainers : 371, 372
Clevis Hangers : 570, 579
Colonial Ball Valves : 222, 230
Colonial Slo-Close True Union Ball Valve : 222
Compressed Air Piping System : 126, 127
Concentric and Eccentric Reducers : 65
Cone Bottom Tanks : 523, 524, 525, 526, 556
Constant Flow Valves : 334
Containment Fittings, Double, GF Fuseal Squared : 171, 172, 173, 174
Containment Fittings, Secondary, GF Contain-It : 167, 168
Containment Fittings, Secondary, GF Double-See : 169, 170
Containment Pipe, Double, GF Fuseal Squared : 171
Containment Pipe, Secondary, GF Contain-It : 167
Containment Pipe, Secondary, GF Double-See : 169
Containment Systems : 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510
Containment Tank Basins : 549, 550, 551, 552
Containment Tanks : 530, 531, 547, 548
Control Ball Valves : 232, 233, 234, 235, 236, 237
Control Ball Valves, Bonomi : 236
Control Ball Valves, GF : 233
Control Ball Valves, Hayward : 232, 233
Controller Universal Multi-Color Display : 434
Corrosive Waste Drainage System : 206, 207, 208
Corrosive Waste Piping System : 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188
Corzan Duct and Fittings : 66, 67, 68
Corzan Expansion Joints : 63
Couplings, Grooved Pipe : 93
Couplings, Quick Connector : 42, 43
CPVC Fittings, Spears LabWaste Drainage System : 206, 207, 208
CPVC Fume Hoods : 76
CPVC Pipe, Spears LabWaste Drainage System : 206
CPVC Schedule 80 Fittings : 95, 96, 97, 98
CPVC Schedule 80 Nipples : 99
CPVC Schedule 80 Pipe : 94
CPVC Sheet and Shapes : 72
CPVC Solvent Cements : 119
Cushion Clamps : 577
Cushion Strut Clamps : 574, 575
Custom Casework : 76
Custom High Temperature Tanks : 77
Custom Hoods : 76
Custom Scrubbers : 77
CustomGuard Double Containment Piping System : 175
Cut Groove Specifications : 585
Cutters : 123, 124
Cutting Tools and Accessories : 123, 124, 125

D

Deburring Tools : 124
Delta-T Butterfly Valves : 294, 295, 296, 297, 298
Diaphragm Pump Accessories : 480, 481, 482, 483
Diaphragm Pumps : 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479
Diaphragm Valves : 155, 320, 321, 322, 323, 324
Diaphragm Valves, Asahi : 320, 321

Detailed Index

Diaphragm Valves, GF : 322, 323
Diaphragm Valves, Hayward : 324
Digital Pressure Gauges : 344, 345
Display LED Universal Controller : 434
Diverter Valves : 355
Dixon Mini Filters : 129, 493
Dixon Mini Regulators : 129, 493
Dixon Stainless Steel Hose Clamps : 51
Double Bolt Clamps : 23, 50
Double Bond Hose Clamps : 50
Double Containment Piping System : 171, 172, 173, 174, 175, 176, 177
Drain Valves : 353
Drainage System, Corrosive Waste : 206, 207, 208
Drainage System, Spears LabWaste CPVC Corrosive Waste : 206, 207, 208
Drum Hand Truck : 510
Drum Pump Flow Meters : 459
Drum Pump Kit,Finish Thompson : 482
Drum Pumps : 452, 453, 454, 455, 456, 457, 458
Drum Stacking Systems : 499
Drum Storage : 499, 507, 508, 510
Drum Workstations : 499
Dry Disconnect, Manifold : 363
Dry Media Valve : 338
Dry Poppet Coupling : 244
Dry Pressure Gauges : 341
Dry-Disconnects, PP : 243
Dry-Disconnects, SS : 244
Dry-Mates : 243, 244
Dualline Tanks : 531
Duct and Fittings, PVC and CPVC : 66, 67, 68
Ductile Iron Butterfly Valves : 295, 297
DuraDek Fiberglass Grating : 562, 563
DuraDek Fiberglass Handrail System : 566

E

Eagle Spill Containment Systems : 496, 497, 498, 499, 500, 501, 502
Electric Actuators : 254, 300, 301
Electric Mixers : 490, 491, 493, 494
Electric Valves : 274, 275
Electrically Actuated 3-Way Ball Valves : 271
Electrically Actuated Ball Valves : 250, 251, 252, 253, 255, 256, 257, 258, 259, 260
Electrically Actuated Butterfly Valves : 313, 314, 315, 316
Electrodes, Signet : 413, 414, 415, 416, 417, 418, 419, 420
Electronic Metering Pumps : 484, 485
Elliptical Tanks : 521
Encase Acid Waste PP Double Containment Piping System : 175
Epoxy Coated Wafer Check Valves : 287
Expansion Joints : 63, 64
Extren Fiberglass Structural Shapes : 565

F

Fastenal PVC Schedule 80 Fittings : 89
Faucets : 337, 338
FDA Union Valves : 335
Feeder Tanks : 532, 545
Fiberglass Channel Fittings : 568, 569, 570
Fiberglass Channel Framing : 567
Fiberglass Grating : 562, 563, 564
Fiberglass Hand Rail Systems : 566
Fiberglass Structural Shapes : 565
Fiberglass Vertical Tanks : 511
Filter Bags : 379
Filter Cartridges : 379
Filter Regulator : 482
Filters, Mini : 129
Filtration, Bag and Cartridge Filters : 379
Finish Thompson Air Batch Controller : 480
Finish Thompson Air Cycle Counter : 481
Finish Thompson Centrifugal Pumps : 460, 461, 462, 463, 464
Finish Thompson Diaphragm Pump Accessories : 480, 481, 482
Finish Thompson Drum Pump Kit : 482
Finish Thompson FDA Diaphragm Pumps : 478, 479
Finish Thompson Liquid Level Control : 481
Finish Thompson Metal Diaphragm Pumps : 473, 474, 475, 476, 477, 479
Finish Thompson Plastic Diaphragm Pumps : 469, 470, 471, 472, 478
Finish Thompson Rechargeable Drum Pump Kits : 453
Fittings, Barbed Tube : 36, 37
Fittings, Black PP Schedule 80 : 132, 133
Fittings, Bulkhead : 52, 53, 54, 55, 56, 57, 58, 59
Fittings, Cam and Groove : 44, 45, 46, 47
Fittings, Clear PVC : 100, 101
Fittings, Containment, Double, GF Fuseal Squared : 171, 172, 173, 174
Fittings, Containment, Secondary, GF Contain-It : 167, 168
Fittings, Containment, Secondary, GF Double-See : 169, 170
Fittings, CPVC Schedule 80 : 95, 96, 97, 98
Fittings, CPVC, Spears LabWaste Drainage System : 206, 207, 208
Fittings, HD Pipe and Hose Barb : 48
Fittings, Hose Barb : 48, 49
Fittings, Metal Bulkhead : 55, 58, 59
Fittings, Metal Hose Barb : 49
Fittings, Natural PP Schedule 80 : 130, 131
Fittings, PE, GF Cool-Fit ABS Plus : 158, 159, 160, 161, 162, 163
Fittings, PE100, GF Ecofit Metric : 209, 210, 211, 212, 213, 214
Fittings, PP Cam and Groove : 45
Fittings, PP, GF Fuseal Corrosive Waste : 179, 180, 181, 182, 183, 184
Fittings, PP, GF PPro-Seal Natural : 203, 204, 205
Fittings, PP, GF Progef Euro Gray Standard : 190, 191, 192, 193, 194, 195, 196, 197, 198
Fittings, PP, GF Progef Natural : 199, 200, 201, 202
Fittings, PTFE, Micromold Fluor-O-Flo : 156
Fittings, PVC and PVDF Cam and Groove : 44
Fittings, PVC Fabricated : 111, 112, 113, 114
Fittings, PVC Schedule 40 : 108, 109, 110, 115
Fittings, PVC Schedule 40 Gray : 104, 105, 106
Fittings, PVC Schedule 80 : 86, 87, 88, 89, 90
Fittings, PVC, GF Lxt Clear Ultra Pure : 152, 153, 154
Fittings, PVDF, Chemtrol Natural Schedule 80 : 148, 149
Fittings, PVDF, Chemtrol Red Schedule 80 : 150, 151
Fittings, PVDF, GF Fuseal 25/50 Corrosive Waste : 185, 186, 187, 188
Fittings, PVDF, GF Sygef Plus HP : 142, 143, 144, 145, 146, 147
Fittings, PVDF, GF Sygef Standard : 134, 135, 136, 137, 138, 139, 140, 141
Fittings, Stainless Steel : 215
Fittings, Stainless Steel Reinforced : 90
Fittings, Tube : 27, 28, 29, 30, 31, 32, 33, 34, 35, 40, 41, 42, 43
Fittings, Tube Twist And Lock : 41
Flange Backup Ring : 214
Flange Gaskets : 61, 62
Flange Ring : 202
Flange Spray Shields : 435
Flange to Flange Bolt Kits : 61
Flat Bottom Tanks : 511, 512, 513, 514, 515, 516, 553, 554, 555, 557
Float Switches : 451
Flotect Vane Operated Flow Switches : 436
Flow Indicators : 351
Flow Sensors, GF Signet : 400, 401, 402, 403, 404, 405, 406, 407, 408, 409
Flow Switches : 433, 435, 436
Flowline Accessories : 449
Flowline DataLoop IS Level Indicator : 439
Flowline DataView Level Controller : 439
Flowline EchoPod Multi-Function Ultrasonic Transmitter : 442, 443
Flowline EchoPod Ultrasonic Level Transmitter : 442
Flowline EchoSafe Ultrasonic Level Transmitter : 440

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Flowline EchoSonic II Ultrasonic Level Transmitter : 441
Flowline EchoSpan Ultrasonic Level Transmitter : 441
Flowline EchoTouch IS Ultrasonic Level Transmitter : 440
Flowline Instruments : 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449
Flowline Pulse Level Transmitters : 438
Flowline Smart Trak Installation Fitting : 449
Flowline Smart Trak with Compact Junction Box : 444
Flowline Smart Trak with Compact Level Controller : 444
Flowline Strobe Alert Compact Flash Alarm : 448
Flowline Switch-Pak Installation Fitting : 449
Flowline Switch-Pak with Compact Junction Box : 445
Flowline Switch-Pak with Compact Level Controller : 445
Flowline Switch-Pro Compact Junction Box : 448
Flowline Switch-Tek Optic Leak Detection Switch : 447
Flowline Switch-Tek Ultrasonic Level Switch : 446
Flowline Switch-Tek Vertical Buoyancy Level Switch : 447
Flowline Wave Radar Level Transmitters : 438
Flowmeters : 364, 382, 383, 384, 385, 386, 387, 433, 459
Fluid Presence Sensor : 437
Fluidtrol Reducers : 65
Fluor-O-Flo Tank Adapters : 54
Forsthoff Welding Gun : 81
Forsthoff Welding Tips : 81
FPM Flexible Tubing : 25
Free-Standing Tanks : 517, 518
Fuel Tanks : 529
Full Vacuum Transfer Tubing : 18
Fume Hoods : 76
Fume Removal Hose : 69
Fusion Tools : 82, 83, 84

G

Gaskets, Bulkhead : 54
Gaskets, Flange : 61, 62
Gate Valves : 332
Gauge Guards : 339, 340
Gauges, Pressure : 341, 342, 343, 344, 345, 346
Gauges, Pressure and Temperature : 341
GF 3-Way Ball Valves : 247, 248, 249
GF Ball Check Valves : 277
GF Ball Valves : 219, 220, 221
GF Bleed Valves : 291
GF Butterfly Valves : 302, 303, 304
GF Clear PVC Fittings : 100, 101
GF Clear PVC Pipe : 100
GF Contain-It Secondary Containment Piping System : 167, 168
GF Control Ball Valves : 233
GF Cool-Fit ABS Plus Piping System : 157, 158, 159, 160, 161, 162, 163, 164, 165, 166
GF Cool-Fit ABS Plus Piping System Accessories : 164, 165, 166
GF Diaphragm Valves : 322, 323
GF Double-See Vinyl Double Containment Piping System : 169, 170
GF Ecofit Metric PE100 Piping System : 209, 210, 211, 212, 213, 214
GF Electrically Actuated Ball Valves : 257, 258
GF Electrically Actuated Butterfly Valves : 315
GF Electrically Actuated Horizontal 3-Way Ball Valves : 271
GF EnviroKing Clear UV Resistant PVC Pipe : 103
GF Flowmeters : 382
GF Fuseal 25/50 PVDF Corrosive Waste Piping System : 185, 186, 187, 188
GF Fuseal PP Corrosive Waste Piping System : 178, 179, 180, 181, 182, 183, 184
GF Fuseal Squared Double Containment Piping System : 171, 172, 173, 174
GF Fusion Machines : 83, 84
GF Heat Exchangers : 560
GF Lxt Clear Ultra Pure Piping System : 152, 153, 154, 155
GF Lxt Clear Ultra Pure Valves : 155
GF Pneumatic Actuated Accessories : 268
GF Pneumatically Actuated Ball Valves : 266, 267, 268
GF Pneumatically Actuated Butterfly Valves : 317, 318
GF Pneumatically Actuated Diaphragm Valves : 328, 329, 330, 331
GF Pneumatically Actuated Horizontal 3-Way Ball Valves : 272, 273
GF PPro-Seal Natural PP Piping System : 203, 204, 205
GF Progef Euro Gray Standard PP Piping System : 189, 190, 191, 192, 193, 194, 195, 196, 197, 198
GF Progef Natural PP Piping System : 199, 200, 201, 202
GF PVC Compression Fittings : 115
GF PVC Flexible Couplings : 115
GF PVC Large Diameter Fittings : 114
GF PVC Schedule 120 Pipe : 117
GF PVC Schedule 80 Fittings : 89
GF Repair Coupling : 115
GF Signet 0486 Profibus Concentrator : 400
GF Signet 2000 Micro Flow Rotor Sensor : 406
GF Signet 2100 Turbine Flow Sensor : 407
GF Signet 2250 Submersible Hydrostatic Pressure Sensor : 424
GF Signet 2270 Ultrasonic Level Sensor : 410
GF Signet 2280 Tuning Forks : 411
GF Signet 2281 Multipoint Switch : 411
GF Signet 2282 Guided Float Switch : 410
GF Signet 2284 Ultrasonic Gap Switch : 411
GF Signet 2285 Level Float Switch : 410
GF Signet 2290 Non-contact Radar Level Transmitter : 412
GF Signet 2291 Guided Wave Radar Level Transmitter : 412
GF Signet 2350 Temperature Sensor : 424
GF Signet 2450 Pressure Sensors : 423
GF Signet 2507 Mini Flow Rotor Sensor : 407
GF Signet 2536 Rotor-X Paddlewheel Flow Sensors : 402
GF Signet 2537 Paddlewheel Flowmeter : 403
GF Signet 2540 SS High Performance Paddlewheel Flow Sensors : 405
GF Signet 2551 Magmeter Flow Sensors : 404
GF Signet 2552 Metal Magmeter Flow Sensors : 406
GF Signet 2630 Amperometric Chlorine Electrode : 420
GF Signet 2650 DryLoc Amperometric Electronics : 423
GF Signet 2724 - 2726 pH/ORP Electrodes : 414
GF Signet 2734 - 2736 pH/ORP Electrodes : 415
GF Signet 2750 DryLoc pH/ORP Sensor Electronics : 422
GF Signet 2756 - 2757 Wet-Tap Electrodes : 417
GF Signet 2759 pH/ORP System Tester : 429
GF Signet 2760 DryLoc pH/ORP Preamplifiers & Connectors : 422
GF Signet 2764 - 2767 Differential DryLoc pH/ORP Electrodes : 416
GF Signet 2774 - 2777 DryLoc pH/ORP Electrodes : 417
GF Signet 2818 - 2823 Conductivity/Resistivity Electrodes : 419
GF Signet 2839 - 2842 Conductivity Electrodes : 420
GF Signet 2850 Conductivity/Resistivity Sensor Electronics : 421
GF Signet 3519 Flow Wet-Tap Valve : 426
GF Signet 3719 pH/ORP Wet-Tap Assembly : 417
GF Signet 4150 Turbidimeter : 426
GF Signet 4150 Turbidimeter Calibration Kits : 427
GF Signet 4150 Turbidimeter Formazin Stock Kit : 427
GF Signet 4630 Chlorine Analyzer System : 425
GF Signet 4632 Chlorine Dioxide Analyzer System : 425
GF Signet 5090 Sensor-Powered Flow Monitor : 403
GF Signet 515 Rotor-X Paddlewheel Flow Sensors : 402
GF Signet 525 Metalex Paddlewheel Flow Sensor : 405
GF Signet 7310 Switching Power Supplies : 429
GF Signet 8059 External Relay Modules : 428
GF Signet 8150 Battery Powered Flow Totalizer : 400
GF Signet 8630 Chlorine Transmitter : 399
GF Signet 8860 Two-Channel Conductivity/Resistivity Controller : 399
GF Signet 8900 Multi-Parameter Controller : 395, 396, 397, 398
GF Signet 9900 Field Mount Transmitter Adapter Kit : 393
GF Signet 9900 Transmitter : 392, 393
GF Signet 9900 Transmitter Plug In Modules : 393

Detailed Index

GF Signet 9900 Transmitter Rear Enclosure Kit : 394
GF Signet 9900-1BC Batch Controller System : 394
GF Signet 9950 Dual Channel Transmitter : 390, 391
GF Signet 9950 Relay Modules : 391
GF Signet Accessories : 427, 428, 429
GF Signet Accessories and Replacement Parts : 408
GF Signet Chlorine Systems : 425
GF Signet Conductivity/Resistivity Tool : 428
GF Signet Controllers : 394, 395, 396, 397, 398, 399
GF Signet Electrodes : 413, 414, 415, 416, 417, 418, 419, 420
GF Signet Flow Sensors : 401, 402, 403, 404, 405, 406, 407, 408, 409
GF Signet i-Go 8058 Signal Converter : 428
GF Signet Installation Fittings : 429, 430
GF Signet Installation Guidelines : 431
GF Signet Instrument Specifications : 388, 389, 396, 397, 398, 401, 413, 418
GF Signet Instruments : 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 426
GF Signet Level Sensors : 410, 411, 412
GF Signet Modules : 393
GF Signet pH/ORP Buffer Solutions : 427
GF Signet Portaflow 220/330 Portable Ultrasonic Flowmeter : 409
GF Signet Sensors : 421, 422, 423, 424
GF Signet Transmitter Adapter Kit : 393
GF Signet Transmitters : 390, 391, 392, 393
GF Signet Ultraflow U1000 Ultrasonic Flow Sensor : 409
GF Signet Ultraflow U3000 / U4000 Ultrasonic Flow Sensor : 409
GF Sygef Plus HP PVDF Piping System : 142, 143, 144, 145, 146, 147
GF Sygef Standard PVDF Piping System : 134, 135, 136, 137, 138, 139, 140, 141
GF True Union Ball Valves Type 546 : 219, 220, 221
GF Ventilating Valves : 291
GF Y-Check Valves : 282
Globe Valves : 333
Grating, Fiberglass : 562, 563, 564
Grooved Pipe Couplings : 93
Guardian Vinyl Double Containment Piping System : 175

H

Hand Drum Pumps : 452, 453
Hand Rail Systems : 566
Harvard Pressure Gauges : 341
Hayward 3-Way Ball Valves : 246
Hayward Air Release Valves : 293
Hayward Bag Filters : 379
Hayward Ball Check Valves : 276
Hayward Ball Valves : 225, 226, 230
Hayward Basket Strainers : 376, 377
Hayward Bulkhead Fittings : 52, 53
Hayward Bulkhead Gaskets : 54
Hayward Butterfly Valves : 305, 306
Hayward Cartridge Filters : 379
Hayward Control Ball Valves : 232, 233
Hayward Diaphragm Valves : 324
Hayward Electrically Actuated Ball Valves : 256
Hayward Electrically Actuated Butterfly Valves : 316
Hayward Needle Valves : 336
Hayward Pneumatically Actuated Butterfly Valves : 316
Hayward Pneumatically Actuated Diaphragm Valves : 325
Hayward Qic2 Ball Valve : 230
Hayward Replacement Baskets : 378
Hayward Solenoid Metering Pumps : 487
Hayward Solenoid Valves : 357
Hayward Swing Check Valves : 285
Hayward True Union Ball Valves : 225, 226, 232
Hayward Universal Stopcocks Kit : 336
Hayward Vacuum Breakers : 290
Hayward Wafer Check Valves : 288, 289
Hayward Y-Check Valves : 282
Hayward Y-Strainers : 371
HCL Herbie Clips : 50
HD Pipe and Hose Barb Fittings : 48
Heat Exchangers : 560, 561
Helix Hose Clamps : 23
Herbie Clips : 50
High Temperature Tanks : 77
HiTech Duravent Flexible Hose and Ducting : 69
Hoods : 76
Hose Barb Fittings : 48, 49
Hose Bibbs : 337
Hose Clamps : 50, 51
Hose, Fume Removal : 69
Hose, Polyurethane : 22
Hose, Polyurethane-lined PVC : 23
Hose, PVC Air and Water : 19
Hose, PVC Flexible : 69
Hose, PVC Suction and Blower : 22
Hose, PVC Suction and Transfer : 20, 21
Hose, Reinforced : 20, 21, 22, 23, 68
HydraZorb Channel Accessories : 574, 576, 577, 578, 579, 580

I

IBC Spill Containment Units : 498, 509, 510
ICON Dry Media Throttling Valve : 338
ICON Instruments : 432, 433, 434, 435
ICON Low Torque ANSI Flange Gaskets : 62
ICON Pressure Gauges : 342, 343, 344, 345
ICON Pump Accessories : 483
ICON VDC Power Supply : 434
Immersible Pumps : 466, 467, 468
Inductor Tanks : 526
Installation Fittings, Signet : 429, 430
Instruments, Flowline : 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449
Instruments, GF Signet : 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 426
Instruments, ICON : 432, 433, 434, 435
IPEX Duraplus Air Line System : 128, 129

J

Jaco Tube Fittings : 28, 29, 30, 31, 32
Jefferson Slow Closing Solenoid Valves : 356
John Guest Acetal By-Pass Valves : 40
John Guest Acetal Shut-Off Valves : 40
John Guest Polypropylene Angle Stop Adapter Valves : 40
John Guest Polypropylene Shut-Off Valves : 40
John Guest Speedfit : 41
John Guest Tube Fittings : 33, 34, 35
John Guest Valves : 40

K

Koflo Static Mixers : 495
Kuriyama Clear PVC Tubing : 15
Kuriyama Expansion Joints : 63
Kuriyama Food and Beverage Grade Tubing : 16
Kuriyama General Purpose Air and Water Hose : 19
Kuriyama Klearon Clear PVC Tubing : 13, 14
Kuriyama Metal Cam and Groove Fittings : 47
Kuriyama Polyair Air and Water Hose : 19
Kuriyama Polyspring PVC Vacuum/Transfer Hose : 18
Kuriyama Polyurethane-Lined Clear PVC Tubing : 15
Kuriyama Polywire PVC Vacuum/Transfer Hose : 18
Kuriyama Reinforced Vacuum/Pressure Hose : 17
Kuriyama Sight Glass Strainer Assembly : 381
Kuriyama Tiger Clamps : 23
Kuriyama Tigerflex Hose : 20, 21, 22, 23

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Detailed Index

Kuriyama Wire Reinforced Air Ducting Hose : 68
Kynar PVDF Flexible Tubing : 25
Kynar Tube Fittings : 28, 29, 30, 31, 32

L
Laboratory Dispensing Faucets : 338
Large Diameter PVC Fabricated Fittings : 111, 112, 113
Lasco PVC Large Diameter Fittings : 114
LCD Display Pressure Gauges : 345
Leak Detection Switches : 435, 447
Leak Detection System, Centra-Guard : 175
LED Display : 434
LED Display Pressure Gauges : 344
Level Controllers : 439, 444, 445, 450, 451
Level Indicators : 439
Level Sensors : 410, 411, 412
Level Switches : 435, 444, 445, 446, 447, 451
Level Transmitters : 434, 438, 440, 441, 442, 443
Line Strainers : 373, 374, 375
Linear Low Density Polyethylene Tubing : 24
Liquid Filled Pressure Gauges : 341, 342, 343
Liquid Level Alarm : 450
Liquid Level Control, Finish Thompson : 481
Litchfield Clic-x Pipe Hangers : 571
Livestock Tanks : 532, 545
LMI Electronic Metering Pumps : 484, 485
Lug Style Butterfly Valves : 297, 298, 304, 305, 308, 312
Lutz Drum Pump Flow Meters : 459
Lutz Pump Accessories : 458
Lutz Pumps : 454, 455, 456, 457, 458, 459

M
Magnetic Flow Meter : 432
Manifold Fittings : 365, 366, 367, 368
Manifold Flange Connections : 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370
Manifold Inductor System : 364
Manifold Inductors : 364
Manifold Line Strainers : 369
Manifold Tank Fittings : 370
Manifold Valves, 3-Way : 363
Manifold Valves, 5-Way : 360
Manifold Valves, Ball : 360, 363
Manifold Valves, Dry Disconnect : 363
Manifold Valves, Electric : 358, 359, 360
Manifold Valves, Pressure Spike : 360
Manifold Valves, Stubby : 361, 362
Marquest Gauge Guards : 340
Marquest Needle Valves : 336
Material Technical Data : 581
Max-Air Technology Anodized Aluminum Pneumatic Actuators : 299
Max-Air Technology Electric Actuators : 300, 301
Mercer Expansion Joints : 64
Metal Cam and Groove Fittings : 46, 47
Metal Diaphragm Pumps : 473, 474, 475, 476, 477, 479
Metal Hardware and Bases : 580
Metal Hose Barb Fittings : 49
Metal Straps : 578
Metal Strut Channel : 573
Metal Strut Channel and Accessories : 573, 574, 575, 576, 577, 578, 579, 580
Metal Strut Clamps : 574
Metal Tube Fittings : 38
Metal Valves : 39, 236, 237
Metering Ball Valves : 232, 233, 234, 235, 236, 237
Metering Pumps : 484, 485, 486, 487
Micro Ball Valves : 231
Micromold Fluor-O-Flo PTFE Piping System : 156
MicroMold Y-Strainers : 372
Mini Ball Valves : 238
Mini Filters : 129, 493
Mini Regulators : 129, 493
Mixer Accessories : 492, 493
Mixers : 490, 491, 492, 493, 494, 495
Molded Fiberglass Grating : 564
Monarch Rotary Hand Pump : 453

N
Natural PP Schedule 80 Fittings : 130, 131
Natural PP Schedule 80 Pipe : 130
NDS Swing Check Valve : 286
Needle Valves : 336
Neutralization Tanks : 557
NewAge PTFE FEP Chemical Tubing : 25
NewAge Silicone Tubing : 26
NewAge Unreinforced Polyurethane Tubing : 26
NewAge Vitube Flexible Tubing : 25
Nibco CPVC Schedule 80 Fittings : 95, 96, 97, 98
Nibco PVC Schedule 80 Fittings : 86, 87, 88, 89
Nil-Cor Ball Valves : 229
Nil-Cor Butterfly Valves : 311
Nipples, Clear PVC Schedule 80 : 101
Nipples, CPVC Schedule 80 : 99
Nipples, PVC Schedule 80 : 91, 92
Nipples, Stainless Steel : 216
Norwesco Bulkhead Fittings : 54
Norwesco Tank Lids : 558
Nozzle Valves : 240
Nylon Tube Fittings : 27, 28, 29, 30, 31, 32, 36, 37

P
Paddle Wheel Flow Meter : 432
Pallet Tanks : 535
Parker Linear Low Density Polyethylene Tubing : 24
Parker Polypropylene Tubing : 24
Parker Tube Fittings : 27
PE Fittings, GF Cool-Fit ABS Plus : 158, 159, 160, 161, 162, 163
PE Pipe, GF Cool-Fit ABS Plus : 157
PE100 Fittings, GF Ecofit Metric : 209, 210, 211, 212, 213, 214
PE100 Pipe, GF Ecofit Metric : 209
Pest Control Tanks : 539
PHD Channel : 573
Pickup Tanks : 532
Pipe Clamps : 569, 574
Pipe Couplings, Grooved : 93
Pipe Dope : 122
Pipe Hanger Accessories : 569, 571, 572, 574, 576, 577, 578, 579, 580
Pipe Hangers : 126, 570, 571, 572, 576, 577, 579
Pipe Joiners : 125
Pipe Penetration Seals : 118
Pipe Straps : 569, 578
Pipe Strut Mount Insulation Couplings : 576
Pipe Technical Data : 582, 583, 584
Pipe, Clear PVC : 100
Pipe, Clear UV Resistant PVC : 103
Pipe, Containment, Double, GF Fuseal Squared : 171
Pipe, Containment, Secondary, GF Contain-It : 167
Pipe, Containment, Secondary, GF Double-See : 169
Pipe, CPVC Schedule 80 : 94
Pipe, CPVC, Spears LabWaste Corrosive Waste Drainage System : 206
Pipe, PE, GF Cool-Fit ABS Plus : 157
Pipe, PE100, GF Ecofit Metric : 209
Pipe, PP, GF Fuseal Corrosive Waste : 178
Pipe, PP, GF PPro-Seal Natural : 203
Pipe, PP, GF Progef Euro Gray Standard : 189
Pipe, PP, GF Progef Natural : 199

Detailed Index

Pipe, PTFE, Micromold Fluor-O-Flo : 156
Pipe, PVC Schedule 120 : 117
Pipe, PVC Schedule 40 : 107
Pipe, PVC Schedule 80 : 85
Pipe, PVC, GF Lxt Clear Ultra Pure : 152
Pipe, PVDF, Chemtrol Natural Schedule 80 : 148
Pipe, PVDF, Chemtrol Red Schedule 80 : 150
Pipe, PVDF, GF Fuseal 25/50 Corrosive Waste : 185
Pipe, PVDF, GF Sygef Plus HP : 142
Pipe, PVDF, GF Sygef Standard : 134
Pipe, Stainless Steel : 215
PipeSeal Belts : 118
Piping System, Asahi Duo-Pro Double Containment : 177
Piping System, Chemtrol Black PP Schedule 80 : 132, 133
Piping System, Chemtrol Natural PP Schedule 80 : 130, 131
Piping System, Chemtrol Natural PVDF Schedule 80 : 148, 149
Piping System, Chemtrol Red PVDF Schedule 80 : 150, 151
Piping System, Compressed Air : 126, 127, 128, 129
Piping System, Corrosive Waste : 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188
Piping System, CustomGuard Double Containment : 175
Piping System, Double Containment : 171, 172, 173, 174, 175, 176, 177
Piping System, GF Contain-It Secondary Containment : 167, 168
Piping System, GF Cool-Fit ABS Plus : 157, 158, 159, 160, 161, 162, 163, 164, 165, 166
Piping System, GF Double-See Vinyl Double Containment : 169, 170
Piping System, GF Ecofit Metric PE100 : 209, 210, 211, 212, 213, 214
Piping System, GF Fuseal 25/50 PVDF Corrosive Waste : 185, 186, 187, 188
Piping System, GF Fuseal PP Corrosive Waste : 178, 179, 180, 181, 182, 183, 184
Piping System, GF Fuseal Squared Double Containment : 171, 172, 173, 174
Piping System, GF Lxt Clear Ultra Pure : 152, 153, 154, 155
Piping System, GF PPro-Seal Natural PP : 203, 204, 205
Piping System, GF Progef Euro Gray Standard PP : 189, 190, 191, 192, 193, 194, 195, 196, 197, 198
Piping System, GF Progef Natural PP : 199, 200, 201, 202
Piping System, GF Sygef Plus HP PVDF : 142, 143, 144, 145, 146, 147
Piping System, GF Sygef Standard PVDF : 134, 135, 136, 137, 138, 139, 140, 141
Piping System, Guardian Vinyl Double Containment : 175
Piping System, Micromold Fluor-O-Flo PTFE : 156
Piping System, Secondary Containment : 167, 168, 169, 170
Plast-O-Matic 3-Way Diverter Valves : 355
Plast-O-Matic 3-Way Solenoid Valves : 355
Plast-O-Matic Actuated Control Ball Valves : 235
Plast-O-Matic Air Operated Drain Valves : 353
Plast-O-Matic Air Operated Pinch Valves : 353
Plast-O-Matic Air Operated Shut Off Valves : 352
Plast-O-Matic Air Release Valves : 292
Plast-O-Matic Air-Actuated Pinch Valves : 335
Plast-O-Matic Ball Valves : 223, 224
Plast-O-Matic Calibration Columns : 382
Plast-O-Matic Compact Flow Switches : 436
Plast-O-Matic Control Ball Valves : 234
Plast-O-Matic Degassing Valves : 292
Plast-O-Matic Differential Pressure Flow Meters : 351
Plast-O-Matic Differential Pressure Gauges : 346
Plast-O-Matic Differential Pressure Indicators : 346
Plast-O-Matic Electrically Actuated Ball Valves : 259, 260
Plast-O-Matic Flowmeters : 382
Plast-O-Matic Fluid Presence Sensors : 437
Plast-O-Matic Gauge Guards : 339, 340
Plast-O-Matic Liquid Level Switches : 436
Plast-O-Matic Manual Shutoff Valves : 450
Plast-O-Matic Pneumatically Actuated Ball Valves : 269, 270
Plast-O-Matic Pressure and Temperature Gauges : 341
Plast-O-Matic Pressure Regulators : 347, 348, 349
Plast-O-Matic Proximity Sensor : 486
Plast-O-Matic Sanitary Connections : 224
Plast-O-Matic Self Closing Check Valves : 283
Plast-O-Matic Self Closing Diaphragm Check Valves : 283
Plast-O-Matic Self-Priming Pumps : 486
Plast-O-Matic Sight Glasses : 380
Plast-O-Matic Solenoid Valves : 354, 355
Plast-O-Matic Thermoplastic Pressure Switches : 348
Plast-O-Matic True Union Ball Valves : 223
Plast-O-Matic Vacuum Breakers : 290
Plast-O-Matic Variable Area Flow Indicators : 351
Plastic Diaphragm Pumps : 469, 470, 471, 472, 478
Plastic Tanks : 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557
Plastic Tubing : 24, 25, 26
Plastic Welders : 78, 79, 80, 81
Pneumatic Actuators : 265, 299
Pneumatically Actuated 3-Way Ball Valves : 272, 273
Pneumatically Actuated Ball Valves : 261, 262, 263, 264, 266, 267, 268, 269, 270
Pneumatically Actuated Butterfly Valves : 316, 317, 318, 319
Pneumatically Actuated Diaphragm Valves : 325, 326, 327, 328, 329, 330, 331
Poly Drums : 501, 502
Polyethylene Tubing, Linear Low Density : 24
Polypropylene and Polyethylene Sheets : 73
Polypropylene Tube Fittings : 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 43
Polypropylene Tubing : 24
Polyurethane Blower Hose : 22
Polyurethane-lined PVC Hose : 23
Power Supply 120 VAC - 24 VDC : 434
PP Bolted Ball Valves : 239, 240, 241, 242
PP Cam and Groove Fittings : 45
PP Dry-Disconnects : 243
PP Fittings, GF Fuseal Corrosive Waste : 179, 180, 181, 182, 183, 184
PP Fittings, GF PPro-Seal Natural : 203, 204, 205
PP Fittings, GF Progef Euro Gray Standard : 190, 191, 192, 193, 194, 195, 196, 197, 198
PP Fittings, GF Progef Natural : 199, 200, 201, 202
PP Fume Hoods : 76
PP Pipe, GF Fuseal Corrosive Waste : 178
PP Pipe, GF PPro-Seal Natural : 203
PP Pipe, GF Progef Euro Gray Standard : 189
PP Pipe, GF Progef Natural : 199
PP Scrubbers : 77
Pressure and Temperature Gauges : 341
Pressure Flow Meters : 351
Pressure Gauges : 341, 342, 343, 344, 345, 346
Pressure Indicators : 346
Pressure Regulators : 347, 348, 349, 350
Pressure Relief Valves : 357
Pressure Switches : 348
Pressure Transmitters : 434
Primer and Cement Applicators : 122
Primers, Cleaners and Cements : 120
Proximity Sensor : 486
PTFE Fittings, Micromold Fluor-O-Flo : 156
PTFE Pipe, Micromold Fluor-O-Flo : 156
PTFE Thread Seal Tape : 103
Pulsation Dampeners : 483
Pumps, Cast Iron : 489
Pumps, Centrifugal : 460, 461, 462, 463, 464
Pumps, Chemical Metering : 486
Pumps, Chemical Transfer : 454, 455, 456, 457, 458

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Detailed Index

Pumps, Diaphragm : 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479
Pumps, Diaphragm Pulsation Dampener : 483
Pumps, Drum : 452, 453, 454, 455, 456, 457, 458
Pumps, Electronic Metering : 484, 485
Pumps, Immersible : 466, 467, 468
Pumps, Plastic : 460, 461, 465, 466, 467, 468, 488
Pumps, Self-Priming : 486
Pumps, Solenoid Metering : 487
Pumps, Stainless Steel : 462, 463, 464, 489
Pumps, Suction : 465
PVC Air and Water Hose : 19
PVC and CPVC Duct and Fittings : 66, 67, 68
PVC and PVDF Cam and Groove Fittings : 44
PVC Fabricated Fittings : 111, 112, 113, 114
PVC Fabricated Fittings, Large Diameter : 111, 112, 113
PVC Fittings and Accessories : 115
PVC Fittings, GF Lxt Clear Ultra Pure : 152, 153, 154
PVC Flexible Hose and Ducting : 69
PVC Fume Hoods : 76
PVC Pipe, GF Lxt Clear Ultra Pure : 152
PVC Saddles : 115, 116
PVC Schedule 120 Pipe : 117
PVC Schedule 40 Fittings : 108, 109, 110
PVC Schedule 40 Fittings Gray : 104, 105, 106
PVC Schedule 40 Pipe : 107
PVC Schedule 80 Fittings : 86, 87, 88, 89, 90
PVC Schedule 80 Nipples : 91, 92
PVC Schedule 80 Pipe : 85
PVC Scrubbers : 77
PVC Shapes : 71
PVC Sheet and Shapes : 70
PVC Sight Glasses : 380
PVC Solvent Cements : 119
PVC Suction and Transfer Hose : 20, 21
PVC, Air and Water Hose : 19
PVC, Clear Reinforced Tubing : 16, 17
PVC, Clear Tubing : 13, 14, 15
PVC, Vacuum/Transfer Hose : 18
PVC/PP Bolts, Nuts and Washers : 75
PVDF Fittings, Chemtrol Natural Schedule 80 : 148, 149
PVDF Fittings, Chemtrol Red Schedule 80 : 150, 151
PVDF Fittings, GF Fuseal 25/50 Corrosive Waste : 185, 186, 187, 188
PVDF Fittings, GF Sygef Plus HP : 142, 143, 144, 145, 146, 147
PVDF Fittings, GF Sygef Standard : 134, 135, 136, 137, 138, 139, 140, 141
PVDF Flexible Tubing : 25
PVDF Pipe, Chemtrol Natural Schedule 80 : 148
PVDF Pipe, Chemtrol Red Schedule 80 : 150
PVDF Pipe, GF Fuseal 25/50 Corrosive Waste : 185
PVDF Pipe, GF Sygef Plus HP : 142
PVDF Pipe, GF Sygef Standard : 134
PVDF Sheets and Rods : 74

Q

Quick Connector Couplings : 42, 43

R

Reducers, Concentric and Eccentric : 65
Reducers, Stainless Steel : 65
Reed Tools and Accessories : 123, 124, 125
Regulators, Mini : 129
Regulators, Pressure : 347, 348, 349, 350
Reinforced Hose : 20, 21, 22, 23, 68
Reinforced Tubing, Clear PVC : 16, 17
Reinforced Tubing, Vacuum Transfer : 18
Replacement Baskets : 378
Rhino Bulkhead Fittings : 59
Rhombus Float Switches : 451
Rhombus Tank Alert Alarm System : 450
Riser Clamps : 578
Round Tanks : 522

S

S-Lok Stainless Steel Ball Valves : 39
S-Lok Tube Fittings : 38
Saddles, PVC : 115, 116
Sanking Clear PVC Ball Valve : 102
Sanking Clear PVC Check Valve : 102
Scrubbers : 77
Seals, Pipe : 118
Secondary Containment Piping System : 167, 168, 169, 170
Self Closing Check Valves : 283
Self-Priming Pumps : 486
Sensors, Signet : 421, 422, 423, 424
Septic Tanks : 540, 541, 542
Sheets and Shapes, CPVC : 72
Sheets and Shapes, PP and PE : 73
Sheets and Shapes, PVC : 70, 71
Sheets and Shapes, PVDF : 74
Shutoff Valves : 335, 352, 450
Sight Glass Strainer : 381
Sight Glasses : 380
Signalmaster Control Switches : 451
Signet 0486 Profibus Concentrator : 400
Signet 2000 Micro Flow Rotor Sensor : 406
Signet 2100 Turbine Flow Sensor : 407
Signet 2250 Submersible Hydrostatic Pressure Sensor : 424
Signet 2270 Ultrasonic Level Sensor : 410
Signet 2280 Tuning Forks : 411
Signet 2281 Multipoint Switch : 411
Signet 2282 Guided Float Switch : 410
Signet 2284 Ultrasonic Gap Switch : 411
Signet 2285 Level Float Switch : 410
Signet 2290 Non-contact Radar Level Transmitter : 412
Signet 2291 Guided Wave Radar Level Transmitter : 412
Signet 2350 Temperature Sensor : 424
Signet 2450 Pressure Sensors : 423
Signet 2507 Mini Flow Rotor Sensor : 407
Signet 2536 Rotor-X Paddlewheel Flow Sensors : 402
Signet 2537 Paddlewheel Flowmeter : 403
Signet 2540 SS High Performance Paddlewheel Flow Sensors : 405
Signet 2551 Magmeter Flow Sensors : 404
Signet 2552 Metal Magmeter Flow Sensors : 406
Signet 2630 Amperometric Chlorine Electrode : 420
Signet 2650 DryLoc Amperometric Electronics : 423
Signet 2724 - 2726 pH/ORP Electrodes : 414
Signet 2734 - 2736 pH/ORP Electrodes : 415
Signet 2750 DryLoc pH/ORP Sensor Electronics : 422
Signet 2756 - 2757 Wet-Tap Electrodes : 417
Signet 2759 pH/ORP System Tester : 429
Signet 2760 DryLoc pH/ORP Preamplifiers & Connectors : 422
Signet 2764 - 2767 Differential DryLoc pH/ORP Electrodes : 416
Signet 2774 - 2777 DryLoc pH/ORP Electrodes : 417
Signet 2818 - 2823 Conductivity/Resistivity Electrodes : 419
Signet 2839 - 2842 Conductivity Electrodes : 420
Signet 2850 Conductivity/Resistivity Sensor Electronics : 421
Signet 3519 Flow Wet-Tap Valve : 426
Signet 3719 pH/ORP Wet-Tap Assembly : 417
Signet 4150 Turbidimeter : 426
Signet 4150 Turbidimeter Calibration Kits : 427
Signet 4150 Turbidimeter Formazin Stock Kit : 427
Signet 4630 Chlorine Analyzer System : 425
Signet 4632 Chlorine Dioxide Analyzer System : 425
Signet 5090 Sensor-Powered Flow Monitor : 403
Signet 515 Rotor-X Paddlewheel Flow Sensors : 402

Detailed Index

Signet 525 Metalex Paddlewheel Flow Sensor : 405
Signet 7310 Switching Power Supplies : 429
Signet 8059 External Relay Modules : 428
Signet 8150 Battery Powered Flow Totalizer : 400
Signet 8630 Chlorine Transmitter : 399
Signet 8860 Two-Channel Conductivity/Resistivity Controller : 399
Signet 8900 Multi-Parameter Controller : 395, 396, 397, 398
Signet 9900 Field Mount Transmitter Adapter Kit : 393
Signet 9900 Transmitter : 392, 393
Signet 9900 Transmitter Plug In Modules : 393
Signet 9900 Transmitter Rear Enclosure Kit : 394
Signet 9900-1BC Batch Controller System : 394
Signet 9950 Dual Channel Transmitter : 390, 391
Signet 9950 Relay Modules : 391
Signet Accessories : 427, 428, 429
Signet Accessories and Replacement Parts : 408
Signet Chlorine Systems : 425
Signet Conductivity/Resistivity Tool : 428
Signet Controllers : 394, 395, 399
Signet Electrodes : 413, 414, 415, 416, 417, 418, 419, 420
Signet Flow Sensors : 401, 402, 403, 404, 405, 406, 407, 408, 409
Signet i-Go 8058 Signal Converter : 428
Signet Installation Fittings : 429, 430
Signet Installation Guidelines : 431
Signet Instrument Specifications : 388, 389, 396, 397, 398, 401, 413, 418
Signet Instruments : 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 426
Signet Level Sensors : 410, 411, 412
Signet Modules : 391, 393
Signet pH/ORP Buffer Solutions : 427
Signet Portaflow 220/330 Portable Ultrasonic Flowmeter : 409
Signet Sensors : 421, 422, 423, 424
Signet Transmitter Adapter Kit : 393
Signet Transmitters : 390, 391, 392, 393
Signet Ultraflow U1000 Ultrasonic Flow Sensor : 409
Signet Ultraflow U3000 / U4000 Ultrasonic Flow Sensor : 409
Signet, Ultrasonic Flow Sensors : 409
Silicone Tubing : 26
Single Union PP Ball Valves : 241
SMC Filter Regulator : 482
Solenoid Metering Pumps : 487
Solenoid Valves : 354, 355, 356, 357
Solvent Cement, CPVC : 119
Solvent Cement, PVC : 119
Spears Ball Valves : 222
Spears Bulkhead Fittings : 56, 57
Spears Gate Valves : 332
Spears LabWaste CPVC Corrosive Waste Drainage System : 206, 207, 208
Spears PVC Schedule 40 Fittings Gray : 104, 105, 106
Spears PVC Schedule 80 Gray Clamp-On Saddles : 116
Spears PVC Schedule 80 Nipples : 91, 92
Spears PVC Schedule 80 Reinforced Fittings : 90
Spears True Union Ball Valves : 222
Spill Containment Accessories : 500, 510
Spill Containment Basins : 496
Spill Containment Decks : 505, 506, 507
Spill Containment Drum Storage : 499, 507, 508
Spill Containment Drums : 501, 502
Spill Containment IBC Units : 498, 509, 510
Spill Containment Kit Boxes : 498
Spill Containment Pallets : 496, 503, 504, 505, 509
Spill Containment Platforms : 497
Spill Containment Systems : 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510
Spill Containment Trays : 510
Spray Shields : 435
Sprayer Tanks : 533, 544
Spring Check Valves : 279
SS Dry-Disconnects : 244
Stackable Tote Tanks : 534
Stainless Steel Ball Valves : 39, 236, 237, 238
Stainless Steel Butterfly Valves : 296, 298
Stainless Steel Fittings : 215
Stainless Steel Hose Clamps : 51
Stainless Steel Nipples : 216
Stainless Steel Pipe : 215
Stainless Steel Pumps : 489
Stainless Steel Reducers : 65
Stainless Steel Tubing : 39
Static Mixers : 495
Stopcock Valves : 336
Strainer Baskets : 378
Strainers, Basket : 376, 377
Strainers, Line : 373, 374, 375
Strainers, Sight Glass : 381
Strainers, T : 373, 375
Strainers, Y : 371, 372, 374, 375
Structural Shapes : 565
Strut Mount Insulation Couplings : 576
Strut Nuts : 578
Stubby Valves : 242, 361, 362
Suction and Blower Hose : 22
Suction Pumps : 465
Swing Check Valves : 284, 285

T

T-Strainers : 373, 375
Tank Fittings : 52, 53, 54, 55, 56, 57, 58, 59
Tank Lids and Accessories : 558, 559
Tanks : 77
Tanks, Accessories : 516, 519, 520, 521, 522, 525, 526, 529, 537, 538, 539, 542, 544, 549, 550, 551, 552
Tanks, Applicator : 533, 536, 537, 538, 539, 543, 544
Tanks, Batch : 527, 528, 529
Tanks, Blow Molded Inductor Sets : 525
Tanks, Bulk Storage : 536, 537, 538
Tanks, Cone Bottom Bulk Storage : 523, 524, 556
Tanks, Cone Bottom Stands : 525
Tanks, Containment : 530, 531, 546, 547, 548
Tanks, Containment Basins : 549, 550, 551, 552
Tanks, Elliptical : 521
Tanks, Feeder : 545
Tanks, Fiberglass Vertical : 511
Tanks, Flat Bottom : 511
Tanks, Flat Bottom Vertical Storage : 512, 513, 514, 515, 516, 553, 554, 555, 557
Tanks, Free-Standing Horizontal Bulk Storage : 517, 518
Tanks, Fuel : 529
Tanks, High Temperature : 77
Tanks, Inductor Bulk Storage : 526
Tanks, Inductor Stands : 526
Tanks, Lids and Accessories : 558, 559
Tanks, Livestock : 532
Tanks, Neutralization : 557
Tanks, Pallet : 535
Tanks, Pickup : 532
Tanks, Plastic : 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557
Tanks, Round Horizontal Bulk Storage : 522
Tanks, Septic/Cistern : 540, 541, 542
Tanks, Stackable Tote : 534
Tanks, Water : 538
Tape, Blue Monster : 103

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Detailed Index

Tape, PTFE : 103, 122
Technical Data, Abbreviations : 591
Technical Data, Butt Fusion : 598, 599, 600
Technical Data, Calculating Formulas : 594, 595
Technical Data, Conversion Factors : 588, 591, 592
Technical Data, Flanges : 589, 590
Technical Data, Friction Loss and Flow Velocity : 586, 587
Technical Data, HPF Fusion : 602
Technical Data, IR Fusion : 601
Technical Data, Material : 581
Technical Data, Pipe : 582, 583, 584, 585
Technical Data, Sheet Metal Thickness : 593
Technical Data, Socket Fusion : 596, 597, 603
Technical Data, Solvent Cementing : 604, 605
Temperature Controllers : 561
Thermoplastic Casework : 76
Three-Way Ball Valves : 245, 246, 247, 248, 249
Tiger Clamps Spiral Double Bolt Clamps : 50
Titan Boltless Bulkhead Fittings : 58
Tools, Cutting and Accessories : 123, 124, 125
Tools, Fusion : 82, 83, 84
Tractor Tanks : 543
Transmitter Rear Enclosure Kit : 394
True Union Ball Valves : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 232
Tube Fittings : 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38
Tube Fittings, Acetal : 33, 34, 35
Tube Fittings, Celcon : 28, 29, 30, 31, 32
Tube Fittings, Kynar : 28, 29, 30, 31, 32
Tube Fittings, Metal : 38
Tube Fittings, Nylon : 27, 28, 29, 30, 31, 32, 36, 37
Tube Fittings, Polypropylene : 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37
Tubing, Chemical : 25
Tubing, Clear PVC : 13, 14, 15
Tubing, Clear PVC Reinforced : 16, 17
Tubing, FPM Flexible : 25
Tubing, Full Vacuum Transfer : 18
Tubing, Linear Low Density Polyethylene : 24
Tubing, Metal : 39
Tubing, Plastic : 24, 25, 26
Tubing, PVDF Flexible : 25
Tubing, Silicone : 26
Tubing, Stainless Steel : 39
Tubing, Unreinforced Polyurethane : 26
Turbine Flow Meter : 432
TVI Y-Strainers : 371

U

Ultrasonic Flow Meter : 433
UltraTech Spill Containment Systems : 503, 504, 505, 506, 507, 508, 509, 510
Union Valves : 335
Unreinforced Polyurethane Tubing : 26

V

Vacuum Breakers : 290
Valves, 3-Way Ball : 245, 246, 247, 248, 249
Valves, Actuated 3-Way Ball : 271, 272, 273
Valves, Actuated Ball : 250, 251, 252, 253, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 266, 267, 268, 269, 270
Valves, Actuated Butterfly : 313, 314, 315, 316, 317, 318, 319
Valves, Actuated Diaphragm : 325, 326, 327, 328, 329, 330, 331
Valves, Angle Stop : 40
Valves, Ball : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 241, 242, 337
Valves, Bleed : 291, 292, 293
Valves, Butterfly : 294, 295, 296, 297, 298, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312
Valves, Check : 155, 276, 277, 278, 279, 280, 281, 282, 283, 286, 287, 288, 289, 335
Valves, Clear Ultra Pure : 155
Valves, Constant Flow : 334
Valves, Diaphragm : 155, 320, 321, 322, 323, 324
Valves, Diverter : 355
Valves, Drain : 353
Valves, Dry Media : 338
Valves, Dry-Disconnect : 243, 244
Valves, Electric : 274, 275
Valves, Gate : 332
Valves, Globe : 333
Valves, Manifold : 358, 359, 360, 361, 362, 363
Valves, Metal : 39
Valves, Micro : 231
Valves, Needle : 336
Valves, Nozzle : 240
Valves, Pressure Relief : 357
Valves, Shutoff : 40, 41, 335, 352, 450
Valves, Solenoid : 354, 355, 356, 357
Valves, Stopcock : 336
Valves, Stubby : 242, 361
Valves, Swing Check : 284, 285
Valves, Tube : 40
Valves, Union : 335
Valves, Ventilating : 291, 292, 293
Valves, Y-Check : 282
Variable Area Flow Indicators : 351
VDC Power Supply : 434
Ventilating Valves : 291, 292, 293
Vises : 125

W

Wafer Check Valves : 287, 288, 289
Wafer Style Butterfly Valves : 295, 296, 302, 303, 306, 307, 309, 310, 311, 312
Walchem Pressure Relief Valves : 357
Water Tanks : 538
Waterway Clear PVC Gate Valves : 332
Webster Pumps : 465, 466, 467, 468
Wegener Spark Tester : 79
Wegener Welding Blowers : 80
Wegener Welding Gun Accessories : 80
Wegener Welding Guns : 78
Wegener Welding Tips : 79
Welders, Plastic : 78, 79, 80, 81
Welding Blowers : 80
Welding Gun Accessories : 80
Welding Guns : 78, 81, 82
Welding Spark Tester : 79
Welding Tips : 79, 81
Wingert Mixers : 490, 491, 492, 493, 494
Wrenches : 123

Y

Y-Check Valves : 282
Y-Strainers : 371, 372, 374, 375

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Clear PVC Tubing

KLEARON™ 73 Series K010 Clear PVC Tubing



Service Temperature Range:
+25°F (-4°C) to +150°F (+65°C)

NSF This tubing/hose is certified under NSF/ANSI standard 51: Food Equipment Materials.

Clear non-toxic food and beverage grade PVC tubing.

Construction

Crystal clear PVC compound, formulated with ingredients in compliance with applicable FDA(03) requirements, meets USDA(17), 3A(01), NSF(13), UL(16), RoHS(15) and USP(18) Class VI criteria.

Features

- High gloss crystal clear appearance with glass smooth interior to reduce sediment buildup
- Non-toxic blue tint to enhance clarity
- NSF-51 certified material
- Self-extinguishing
- Compound hardness 73 ±3 Shore "A"

Applications

- Tubing for laboratories
- Water distillation lines
- Deionized water systems
- Air conditioning drainage
- Refrigeration drainage
- Air lines
- Bottling plants
- Beverage dispensing units
- Ice making machines
- Printing press equipment
- High efficiency furnace drainage
- Transfer of weak chemicals and acids

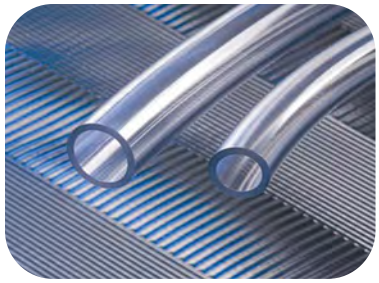
Size Code	Nominal ID		Nominal OD		Nominal Wall		Working Pressure* (PSI) @70°F (20°C)	Standard Length Ctn/Coils	Approx. Wt. Per Pkg.	Manufacture Part #	ALSCO Part #	Price Per Ft. $
	(In)	(mm)	(In)	(mm)	(In)	(mm)						
0204	1/8	3.2	1/4	6.4	1/16	1.6	65	100 ft.	2.0 lbs.	K010-0204X100	200	0.16
0304	3/16	4.8	1/4	6.4	1/32	0.8	50	100 ft.	1.2 lbs.	K010-0304X100	201	0.13
0305	3/16	4.8	5/16	7.9	1/16	1.6	55	100 ft.	2.7 lbs.	K010-0305X100	202	0.21
0306	3/16	4.8	3/8	9.5	3/32	2.4	60	100 ft.	4.5 lbs.	K010-0306X100	203	0.37
0406	1/4	6.4	3/8	9.5	1/16	1.6	55	100 ft.	3.4 lbs.	K010-0406X100	204	0.24
0407	1/4	6.4	7/16	11.1	3/32	2.4	58	100 ft.	5.5 lbs.	K010-0407X100	205	0.44
0408	1/4	6.4	1/2	12.7	1/8	3.2	60	100 ft.	8.0 lbs.	K010-0408X100	206	0.58
0507	5/16	7.9	7/16	11.1	1/16	1.6	50	100 ft.	4.0 lbs.	K010-0507X100	207	0.28
0508	5/16	7.9	1/2	12.7	3/32	2.4	55	100 ft.	6.5 lbs.	K010-0508X100	208	0.47
0509	5/16	7.9	9/16	14.3	1/8	3.2	60	100 ft.	9.4 lbs.	K010-0509X100	209	0.78
0608	3/8	9.5	1/2	12.7	1/16	1.6	45	100 ft.	4.7 lbs.	K010-0608X100	210	0.32
0609	3/8	9.5	9/16	14.3	3/32	2.4	50	100 ft.	7.5 lbs.	K010-0609X100	211	0.56
0610	3/8	9.5	5/8	15.9	1/8	3.2	55	100 ft.	10.7 lbs.	K010-0610X100	212	0.83
0709	7/16	11.1	9/16	14.3	1/16	1.6	35	100 ft.	6.0 lbs.	K010-0709X100	213	0.42
0810	1/2	12.7	5/8	15.9	1/16	1.6	30	100 ft.	6.0 lbs.	K010-0810X100	214	0.42
0811	1/2	12.7	11/16	17.5	3/32	2.4	40	100 ft.	9.5 lbs.	K010-0811X100	215	0.67
0812	1/2	12.7	3/4	19.1	1/8	3.2	45	100 ft.	13.4 lbs.	K010-0812X100	216	0.91
1012	5/8	15.9	3/4	19.1	1/16	1.6	25	100 ft.	8.2 lbs.	K010-1012X100	233	0.52
1013	5/8	15.9	13/16	20.6	3/32	2.4	35	100 ft.	11.6 lbs.	K010-1013X100	217	0.84
1014	5/8	15.9	7/8	22.2	1/8	3.2	40	100 ft.	16.1 lbs.	K010-1014X100	218	1.09
1216	3/4	19.1	1	25.4	1/8	3.2	35	100 ft.	18.8 lbs.	K010-1216X100	219	1.26
1218	3/4	19.1	1 1/8	28.6	3/16	4.8	40	100 ft.	30.0 lbs.	K010-1218X100	220	2.05
1220	3/4	19.1	1 1/4	31.8	1/4	6.4	45	100 ft.	42.9 lbs.	K010-1220X100	221	3.14
1418	7/8	22.2	1 1/8	28.6	1/8	3.2	30	100 ft.	21.4 lbs.	K010-1418X100	222	1.68
1420	7/8	22.2	1 1/4	31.8	3/16	4.8	35	100 ft.	43.1 lbs.	K010-1420X100	223	2.70
1620	1	25.4	1 1/4	31.8	1/8	3.2	25	100 ft.	24.1 lbs.	K010-1620X100	224	1.64
1622	1	25.4	1 3/8	34.9	3/16	4.8	30	100 ft.	38.2 lbs.	K010-1622X100	225	2.75
1624	1	25.4	1 1/2	38.1	1/4	6.4	35	100 ft.	53.6 lbs.	K010-1624X100	226	3.84
2024	1 1/4	31.8	1 1/2	38.1	1/8	3.2	20	50 ft.	14.8 lbs.	K010-2024X50	227	2.02
2026	1 1/4	31.8	1 5/8	41.3	3/16	4.8	30	50 ft.	23.1 lbs.	K010-2026X50	228	3.25
2028	1 1/4	31.8	1 3/4	44.5	1/4	6.4	40	50 ft.	32.2 lbs.	K010-2028X50	229	4.64
2430	1 1/2	38.1	1 7/8	47.6	3/16	4.8	30	50 ft.	27.1 lbs.	K010-2430X50	230	3.70
2432	1 1/2	38.1	2	50.8	1/4	6.4	35	50 ft.	37.5 lbs.	K010-2432X50	231	4.99
3240	2	50.8	2 1/2	63.5	1/4	6.4	35	50 ft.	48.2 lbs.	K010-3240X50	232	6.59

FDA (03), USDA (17), 3A (01), NSF (13), UL (16), RoHS (15) and USP (18) Note: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Use of compression fittings with Kuri Tec® non-reinforced PVC tubing is not recommended. Hose claims involving use of these fittings with be disallowed.

All prices subject to change without notice.

Clear PVC Tubing

Klearon™ 68 Series K018



Service Temperature Range:
±25°F (-4°C) to ±150°F (±65°C)

Clear Non-toxic PVC food grade tubing for applications requiring more flexibility.

Construction

Crystal clear PVC compound, formulated with ingredients in compliance with applicable FDA (03), RoHS (15) and USP (18) Class VI requirements.

Features

- High gloss.
- Non-toxic blue.
- Food grade clear PVC tubing.
- Self-extinguishing.
- Compound hardness 68+_3 Shore “A”.

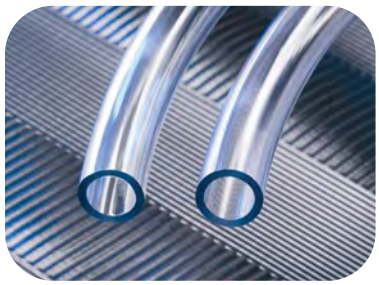
Applications

- Ideal for medical applications requiring USP class VI.
- Similar to K010 applications in which a slightly more flexible tube is desired by the customer.
- Tubing for laboratories.
- Water transfer, purification systems.
- Beverage dispensing & ice making applications.
- Water, air, drainage lines.

Nominal ID		Nominal OD		Nominal Wall		Working Pressure* (PSI) @70°F (20°C)	Approx. Wt. Per Pkg.	Manufacture Part #	ALSCO Part #	Price Per Ft. $
(In)	(mm)	(In)	(mm)	(In)	(mm)					
1/8	3.2	1/4	6.4	1/16	1.6	65	2.0 lbs.	K018-0204X100	293	0.17
3/16	4.8	5/16	7.9	1/16	1.6	55	2.7 lbs.	K018-0305X100	294	0.22
3/16	4.8	3/8	9.5	3/32	2.4	60	4.5 lbs.	K018-0306X100	295	0.39
1/4	6.4	3/8	9.5	1/16	1.6	55	3.4 lbs.	K018-0406X100	296	0.26
1/4	6.4	7/16	11.1	3/32	2.4	58	5.5 lbs.	K018-0407X100	297	0.46
5/16	7.9	7/16	11.1	1/16	1.6	50	4.0 lbs.	K018-0507X100	298	0.30
5/16	7.9	1/2	12.7	3/32	2.4	55	6.5 lbs.	K018-0508X100	299	0.50
3/8	9.5	1/2	12.7	1/16	1.6	45	4.7 lbs.	K018-0608X100	300	0.35
3/8	9.5	9/16	14.3	3/32	2.4	50	7.5 lbs.	K018-0609X100	301	0.61
7/16	11.1	9/16	14.3	1/16	1.6	35	5.3 lbs.	K018-0709X100	302	0.45
1/2	12.7	5/8	15.9	1/16	1.6	30	6.0 lbs.	K018-0810X100	303	0.45
5/8	15.9	13/16	20.6	3/32	2.4	35	11.6 lbs.	K018-1013X100	304	0.89

FDA (07), RoHS (15) and USP (18) Note: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Use of compression fittings with Kuri Tec® non-reinforced PVC tubing is not recommended. Hose claims involving use of these fittings with be disallowed.

Klearon™ Series 2600



Service Temperature Range:
-40°F (-40°C) to +175°F (+80°C)

Clear polyurethane ether-based food grade tubing for transfer of air, fluids and abrasive slurries.

Construction

85 Shore “A” Durometer ether-based polyurethane tubing in transparent blue tint. Blue tint 2600 material conforms to FDA(07) requirements. Also in compliance with RoHS(15) requirements.

Features

- Abrasion and cut resistance.
- Good flex fatigue and resilience characteristics.
- Excellent resistance to ozone, solvents and fuel.
- Good resistance to hydrolysis and algae.
- Slight blue tint allows see-through convenience.
- Complies with Rima Class A designation for high oil resistance.
- Silicone-free.
- One-piece lengths.

Applications

- Transfer of air and fluids under severe conditions.
- Feed and return lines.
- Abrasive slurry transfer.
- Granular transfer lines.
- Robotics control lines.
- Insulating sleeves.
- Lubrication lines.
- Metering pumps.

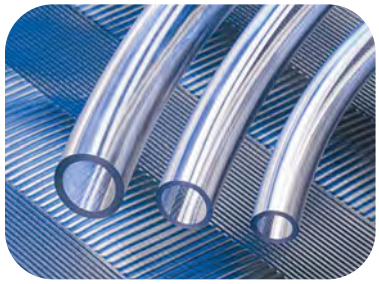
Nominal ID		Nominal OD		Nominal Wall		Working Pressure* (PSI) @70°F (20°C)	Approx. Wt. Per Pkg.	Manufacture Part #	ALSCO Part #	Price Per Ft. $
(In)	(mm)	(In)	(mm)	(In)	(mm)					
1/8	3.2	1/4	6.4	1/16	1.6	100	2.0 lbs.	2600-0204X100	305	0.62
3/16	4.8	5/16	7.9	1/16	1.6	75	3.0 lbs.	2600-0305X100	306	0.81
1/4	6.4	3/8	9.5	1/16	1.6	60	3.5 lbs.	2600-0406X100	307	0.96
5/16	7.9	7/16	11.1	1/16	1.6	50	4.0 lbs.	2600-0507X100	308	1.24
3/8	9.5	1/2	12.7	1/16	1.6	45	5.0 lbs.	2600-0608X100	309	1.32
1/2	12.7	3/4	19.1	1/8	3.2	60	13.0 lbs.	2600-0812X100	310	4.16

FDA (07), RoHS (15) Note: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.
Note: Not recommended for the transfer of brake fluids.

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Clear PVC Tubing

Series K050 Clear PVC Tubing



Service Temperature Range:
+25°F (-4°C) to +150°F (+65°C)

Utility grade non-toxic clear food grade PVC tubing for general use applications.

Construction

Clear PVC compound formulated with ingredients in compliance with applicable FDA(03) and RoHS(15) requirements.

Features

- High gloss crystal clear appearance with glass smooth interior to reduce sediment buildup
- FDA compliant, non-toxic PVC compound
- Self-extinguishing
- Compound hardness 73 ±3 Shore "A"

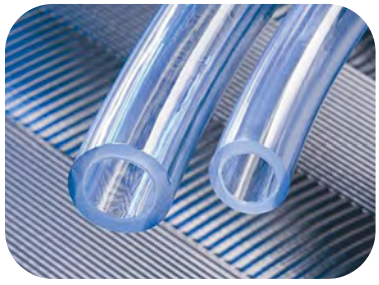
Applications

- Air conditioning Drainage
- Refrigeration Drainage
- Airlines
- Printing press Equipment
- High efficiency furnace drainage
- Transfer of weak chemicals and acids

Size Code	Nominal ID		Nominal OD		Nominal Wall		Working Pressure* (PSI) @70°F (20°C)	Standard Length Ctn/Coils	Approx. Wt. Per Pkg.	Manufacture Part #	ALSCO Part #	Price Per Ft. $
	(In)	(mm)	(In)	(mm)	(In)	(mm)						
0204	1/8	3.2	1/4	6.4	1/16	1.6	65	100 ft.	2.0 lbs.	K050-0204X100	320	0.12
0305	3/16	4.8	5/16	7.9	1/16	1.6	55	100 ft.	2.7 lbs.	K050-0305X100	321	0.15
0406	1/4	6.4	3/8	9.5	1/16	1.6	55	100 ft.	3.4 lbs.	K050-0406X100	322	0.18
0408	1/4	6.4	1/2	12.7	1/8	3.2	60	100 ft.	8.0 lbs.	K050-0408X100	323	0.45
0507	5/16	7.9	7/16	11.1	1/16	1.6	50	100 ft.	4.0 lbs.	K050-0507X100	324	0.21
0608	3/8	9.5	1/2	12.7	1/16	1.6	45	100 ft.	4.7 lbs.	K050-0608X100	325	0.25
0609	3/8	9.5	9/16	14.3	3/32	2.4	50	100 ft.	7.5 lbs.	K050-0609X100	326	0.43
0610	3/8	9.5	5/8	15.9	1/8	3.2	55	100 ft.	10.7 lbs.	K050-0610X100	327	0.53
0810	1/2	12.7	5/8	15.9	1/16	1.6	30	100 ft.	6.0 lbs.	K050-0810X100	328	0.31
0812	1/2	12.7	3/4	19.1	1/8	3.2	45	100 ft.	13.4 lbs.	K050-0812X100	329	0.67
1013	5/8	15.9	13/16	20.6	3/32	2.4	35	100 ft.	11.6 lbs.	K050-1013X100	330	0.59
1014	5/8	15.9	7/8	22.2	1/8	3.2	40	100 ft.	16.1 lbs.	K050-1014X100	331	0.79
1216	3/4	19.1	1	25.4	1/8	3.2	35	100 ft.	18.8 lbs.	K050-1216X100	332	0.91
1418	7/8	22.2	1 1/8	28.6	1/8	3.2	30	100 ft.	21.4 lbs.	K050-1418X100	333	1.07
1620	1	25.4	1 1/4	31.8	1/8	3.2	25	100 ft.	24.1 lbs.	K050-1620X100	334	1.16
2024	1 1/4	31.8	1 1/2	38.1	1/8	3.2	20	50 ft.	14.8 lbs.	K050-2024X100	335	1.59
2430	1 1/2	38.1	1 7/8	47.6	3/16	4.8	30	50 ft.	27.1 lbs.	K050-2430X100	336	2.77
2432	1 1/2	38.1	2	50.8	1/4	6.4	35	50 ft.	37.5 lbs.	K050-2432X100	337	3.77
3240	2	50.8	2 1/2	63.5	1/4	6.4	35	50 ft.	48.2 lbs.	K050-3240X100	338	4.64

FDA (03) and RoHS (15) Note: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Series 3300 Ether-Based Polyurethane-Lined Clear PVC Tubing



Service Temperature Range:
+25°F (-4°C) to +140°F (+60°C)

Special clear flexible tubing combining a food grade PVC outer surface with an inner liner of NSF-61 listed polyurethane.

Construction

73 ±3 Shore "A" Clear FDA(03) PVC, lined with an 80 Shore "A" clear Ether-Based Polyurethane which is in compliance with NSF(09) and RoHS(15) requirements.

Features

- NSF-61 listed polyurethane liner inside a 73 ±3 Shore "A" PVC outer layer.
- Non-PVC contact surface.
- The polyurethane liner offers improved oil resistance compared to PVC.

Applications

- Applications in which a flexible tube with NSF-61 contact material is desired.
- Lower cost alternative to urethane tubing.
- Sight glass tubing.
- Low pressure oil transfer.

Size Code	Nominal ID		Nominal OD		Nominal Wall		Working Pressure* (PSI) @70°F (20°C)	Standard Length Ctn/Coils	Approx. Wt. Per Pkg.	Manufacture Part #	ALSCO Part #	Price Per Ft. $
	(In)	(mm)	(In)	(mm)	(In)	(mm)						
0406	1/4	6.4	3/8	9.5	1/16	1.6	40	100 ft.	3.2 lbs.	K3300-0406X100	339	0.77
0507	5/16	7.9	7/16	11.1	1/16	1.6	50	100 ft.	4.0 lbs.	K3300-0507X100	340	0.99
0609	3/8	9.5	9/16	14.3	3/32	2.4	25	100 ft.	7.2 lbs.	K3300-0609X100	341	1.34

FDA (03), NSF (09) and RoHS (15) Note: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Clear PVC Reinforced Tubing

Braid Reinforced Clear PVC Food & Beverage Grade — Heavy Wall



Service Temperature Range:
+25°F (-4°C) to +150°F (+65°C)

Features
- Non-Toxic Compounds
- Glass Smooth Interior
- Crystal Clear
- Light Weight
- Non Marking
- Ozone Resistant
- Self Extinguishing

Construction
Crystal clear PVC compound, formulated with ingredients in compliance with applicable FDA requirements, meets USDA, 3A, NSF, UL, RoHS and USP Class VI criteria. Reinforced with spiraled polyester yarn and longitudinal blue tracer yarn for ID.

Sold in Standard Lengths Only.

Applications
- Food and Beverage Dispensing
- Air and Water Lines
- Liquid Foods
- Powdered Foods
- Glue and Lubrication Lines
- Deionized Water System
- Potable Water Transfer

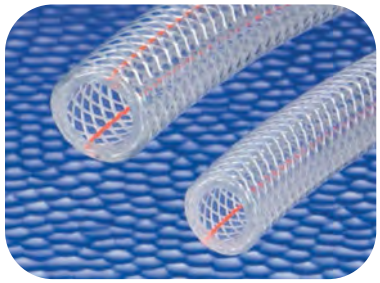
NSF® **Certified Under Standard 51 & 61**

USDA- Accepted for use in slaughtering, processing, transporting, or storage areas in direct contact with meat or poultry food product prepared under federal inspection. Meets Criteria of 3-A Sanitary Standards for multiple Use Plastic Materials used as Product contact surfaces for Dairy Equip.

Nominal ID	Nominal OD	Max. Work Pressure* 70°F	Max. Work Pressure* 122°F	Std. Lgth. Per Coil / Ft	Approx. Wt. Per Coil / lb	Manufacturer Part #	ALSCO Part #	Price Per Ft. $
1/8	21/64 (.328)	350	200	100	12	K3130-02X100	270	0.56
3/16	13/32 (.406)	350	200	100	17	K3130-03X100	271	0.61
1/4	1/2 (.500)	350	200	100	24	K3130-04X100	272	0.75
5/16	9/16 (.563)	275	160	100	28	K3130-05X100	273	0.95
3/8	5/8 (.625)	275	145	100	32	K3130-06X100	274	1.06
1/2	13/16 (.813)	250	130	100	52	K3130-08X100	275	1.62
5/8	1 (1.00)	225	125	100	52	K3130-10X100	276	2.61
3/4	1 1/8 (1.125)	200	120	100	60	K3130-12X100	277	2.98
1	1 3/8 (1.375)	150	85	100	76	K3130-16X100	278	3.73
1 1/4	1 3/4 (1.75)	125	75	50	64	K3130-20X50	279	6.35
1 1/2	2 (2.00)	100	65	50	75	K3130-24X50	280	7.32
2	2 1/2 (2.50)	75	55	50	96	K3130-32X50	281	10.21

FDA (03), **USDA** (17), **3A** (01), **NSF** (13), **UL** (16), **RoHS** (15) **and USP** (18) **Note**: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Use of compression fittings with Kuri Tec® yarn-reinforced hose is not recommended. Hose claims involving use of these fittings with be disallowed.

Braid Reinforced Clear PVC Food & Beverage Grade — Standard Wall



Service Temperature Range:
+25°F (-4°C) to +150°F (+65°C)

Features
- Non-Toxic Compounds
- Glass Smooth Interior
- Crystal Clear
- Light Weight
- Non Marking
- Ozone Resistant
- Self Extinguishing

Construction
Crystal clear PVC compound, formulated with ingredients in compliance with applicable FDA requirements, meets USDA, 3A, NSF, UL, RoHS and USP Class VI criteria. Reinforced with spiraled polyester yarn and longitudinal orange tracer yarn for ID.

Sold in Standard Lengths Only.

Applications
- Food and Beverage Dispensing
- Air and Water Lines
- Liquid Foods
- Powdered Foods
- Glue and Lubrication Lines
- Deionized Water System
- Potable Water Transfer

NSF® **Certified Under Standard 51 & 61**

USDA- Accepted for use in slaughtering, processing, transporting, or storage areas in direct contact with meat or poultry food product prepared under federal inspection. Meets Criteria of 3-A Sanitary Standards for multiple Use Plastic Materials used as Product contact surfaces for Dairy Equip.

Nominal ID	Nominal OD	Max. Work Pressure* 70°F	Max. Work Pressure* 122°F	Std. Lgth. Per Coil / Ft	Approx. Wt. Per Coil / lb	Manufacturer Part #	ALSCO Part #	Price Per Ft. $
3/16	3/8 (.375)	250	150	100	13	K3150-03X100	282	0.50
1/4	7/16 (.438)	250	150	100	17	K3150-04X100	283	0.55
5/16	17/32 (.531)	250	135	100	24	K3150-05X100	284	0.67
3/8	19/32 (.594)	225	125	100	27	K3150-06X100	285	0.81
1/2	3/4 (.750)	200	100	100	40	K3150-08X100	286	1.04
5/8	57/64 (.891)	200	100	100	35	K3150-10X100	287	1.45
3/4	1 1/32 (1.031)	150	85	100	43	K3150-12X100	288	1.76
1	1 5/16 (1.300)	125	75	100	59	K3150-16X100	289	2.65
1 1/4	1 5/8 (1.620)	100	55	50	45	K3150-20X50	290	4.53
1 1/2	1 15/16	100	50	50	64	K3150-24X50	291	5.65
2	2 1/2 (2.490)	75	35	50	94	K3150-32X500	292	8.45

FDA (03), **USDA** (17), **3A** (01), **NSF** (13), **UL** (16), **RoHS** (15) **and USP** (18) **Note**: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Use of compression fittings with Kuri Tec® yarn-reinforced hose is not recommended. Hose claims involving use of these fittings with be disallowed.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 080718

Clear PVC Reinforced Tubing

Heavy Wall Wire-Yarn Reinforced Vacuum/Pressure Hose



A unique crystal clear PVC hose suitable for applications requiring a vacuum hose with higher pressure capability or as a pressure hose with vacuum capability.

Service Temperature Range:
+15°F (-9°C) to +150°F (+65°C)

Construction

Crystal clear PVC compound reinforced with high tensile yarns and helically-wound spring steel wire. The inner food contact surface is made with PVC compound formulated with ingredients in compliance with applicable FDA(03) requirements, meets USDA(17), 3A(01), NSF(13) and RoHS(15) criteria.

Applications

- Pressure and vacuum applications which require excellent kink resistance.
- Ideal for applications which require the hose to withstand both high vacuum and pressure.
- Water transfer.
- Liquid food transfer.

Features

- Wire helix reinforcement prevents kinking or collapsing... hose diameter will not expand under normal rated working pressures.
- 29.9" HG vacuum rating at 70ºF.
- Electro galvanized helical steel wire can be used for static dissipation. Caution: This product is designed to dissipate static electricity when the metal wire is properly connected to ground, through the fitting or other means.
- Yarn reinforcement provides higher working pressure.
- Heavy duty construction prevents hose O.D. from expanding and I.D. from collapsing.
- Crystal clear - allows visual confirmation of product flow Glass-smooth interior - reduces material buildup.
- Inner contact surface material is NSF certified for food applications (standard 51). It also meets other criteria such as 3A and USDA.
- Resistant to chemicals
- Self-extinguishing.
- Non-marking.
- Non-toxic.
- Silicone-free.
- Wire Reinforced for Vacuum and Static Dissipation
- Yarn Reinforced for Pressure
- Kink Resistant for Tight Bends.

Size Code	Nominal ID		Nominal OD		Max. Working Pressure* (PSI)		Standard Coil Length	Approx. Wt. Per Pkg.	Min. Bend Radius @70°F (In)	Manufacture Part #	ALSCO Part #	Price Per Ft. $
	(In)	(mm)	(In)	(mm)	@70°F (20°C)	@122°F (50°C)						
08	1/2	12.7	.910	23.0	250	125	25 ft.	6.5 lbs.	2	K7300-08X25	311	3.14
08	1/2	12.7	.910	23.0	250	125	50 ft.	13.0 lbs.	2	K7300-08X50	311-1	3.14
08	1/2	12.7	.910	23.0	250	125	100 ft.	26.0 lbs.	2	K7300-08X100	311-2	3.14
12	3/4	19.1	1.190	30.4	225	112	25 ft.	10.0 lbs.	2 1/2	K7300-12X25	312	5.18
12	3/4	19.1	1.190	30.4	225	112	50 ft.	20.0 lbs.	2 1/2	K7300-12X50	312-1	5.18
12	3/4	19.1	1.190	30.4	225	112	100 ft.	40.0 lbs.	2 1/2	K7300-12X100	312-2	5.18
16	1	25.4	1.460	37.2	225	112	25 ft.	13.3 lbs.	3 1/2	K7300-16X25	313	6.49
16	1	25.4	1.460	37.2	225	112	50 ft.	26.5 lbs.	3 1/2	K7300-16X50	313-1	6.49
16	1	25.4	1.460	37.2	225	112	100 ft.	53.0 lbs.	3 1/2	K7300-16X100	313-2	6.49
20	1 1/4	31.8	1.780	45.2	175	87	25 ft.	18.5 lbs.	4 1/2	K7300-20X25	314	10.43
20	1 1/4	31.8	1.780	45.2	175	87	50 ft.	37.0 lbs.	4 1/2	K7300-20X50	314-1	10.43
24	1 1/2	38.1	2.030	51.6	175	87	25 ft.	21.5 lbs.	5 1/2	K7300-24X25	315	12.36
24	1 1/2	38.1	2.030	51.6	175	87	50 ft.	43.0 lbs.	5 1/2	K7300-24X50	315-1	12.36
32	2	50.8	2.600	66.0	150	75	25 ft.	32.0 lbs.	7	K7300-32X25	316	17.27
32	2	50.8	2.600	66.0	150	75	50 ft.	64.0 lbs.	7	K7300-32X50	316-1	17.27

FDA (03), USDA (17), 3A (01), NSF (13), RoHS (15) Note: For details of the following compliances, refer to footnotes below.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Compliance Footnotes for Kuri Tec® Catalog Products

Many of the Kuri Tec hose & tubing products comply with one or more of the regulatory requirements pertaining to specific applications, such as:

(01) 3A - The PVC compound complies with the criteria in 3-A Sanitary Standards for Multiple-Use Plastic Materials, number 20.
(02) ASME A112.18.6 - When properly coupled with suitable fittings, this hose will pass the performance tests as outlined in the ASME standard A112.18.6 for Flexible Water Connectors.
(03) FDA - The PVC ingredients used are sanctioned for food contact use under CFR title 21, parts 170-199.
(04) FDA - Material complies with 21 CFR 177.1350.
(05) FDA - Material complies with 21 CFR 177.1520 (c) 3.1 (b).
(06) FDA - Type 1, Class A, Category 4 Polyethylene (complies with FDA21 CFR 177.1520 for Olefin Polymers (par (c) 3.2a).
(07) FDA - Material conforms to FDA CFR 21-177-2600.
(08) IAPMO certified under standard TS 25-2006 for use in recreational vehicle cold water systems with IAPMO T®-2008 listing printed on hose.
(09) NSF - The polyurethane material is listed under NSF Standard 61.
(10) NSF - This hose is certified under NSF/ANSI Standard 61: Drinking Water System Components -- Health Effects. This product has also been evaluated for use in Mechanical Plumbing Device applications with a maximum use restriction of 130 sq. in./L. This certification applies only to the hose without other components attached to the hose. This hose is certified to NSF/ANSI 61, Annex G and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) and Vermont Act 193. Weighted average lead content <=0.25%; Solder and flux lead content <=0.2%.
(11) NSF - The inner core tube PVC material is certified under NSF/ANSI standard 51: Food Equipment Materials and is also certified as Potable Water Material under NSF/ ANSI Standard 61: Drinking Water System Components -- Health Effects for end use not to exceed a maximum of 128.9 square inches per liter. The inner core tube PVC material is certified to NSF/ANSI 61, Annex G and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) and Vermont Act 193. Weighted average lead content <=0.25%; Solder and flux lead content <=0.2%.
(12) NSF - This hose is certified under NSF/ANSI Standard 51: Food Equipment Materials. This hose is certified to NSF/ ANSI 61, Annex G and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) and Vermont Act 193. Weighted average lead content <=0.25%; Solder and flux lead content <=0.2%.
(13) NSF - This hose is certified under NSF/ANSI standard 51: Food Equipment Materials. The inner core tube PVC material is also certified as Potable Water Material under NSF/ANSI Standard 61: Drinking Water System Components – Health Effects for end use not to exceed a maximum of 128.9 square inches per liter. The inner core tube PVC material is certified to NSF/ANSI 61, Annex G and is in compliance with California's Health & Safety Code Section 116875 (commonly known as AB1953) and Vermont Act 193. Weighted average lead content <=0.25%; Solder and flux lead content <=0.2%.
(14) NIOSH - When coupled with suitable fittings and apparatus, this air breathing hose will satisfy the NIOSH Air-Supply-Line requirements and tests of Type C Respirators as described in Table 8 to 42 CFR Part 84, subpart J including the test for permeation of hose by gasoline. NOTE: NIOSH only certifies complete breathing respirators and does not issue certification on individual components, such as hoses. All replacement hoses for NIOSH-certified apparatus must have prior NIOSH certification as a part of that unit.
(15) RoHS - The product complies with the requirements of the EU directive 2002/95/EC as amended by 2008/35/EC which is on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
(16) UL - The clear PVC plastic material is certified for Flame Class HB under the Plastics - Components category by UL with a minimum thickness of 0.8 mm.
(17) USDA - The PVC hose has been found chemically acceptable for use in slaughtering, processing, transporting, or storage areas in direct contact with meat or poultry food product prepared under Federal Inspection.
(18) USP - The PVC compound has been tested and meets the requirements of the USP guidelines, for Class VI Plastics.

Full Vacuum Transfer Tubing

POLYWIRE® Series K7130 Heavy Wall PVC Vacuum/Transfer Hose



Heavy wall food and beverage grade vacuum/transfer hose with rated working pressures.

Construction

Crystal clear PVC compound, formulated with ingredients in compliance with applicable FDA(03) requirements, meets USDA(17), 3A(01), NSF(13), UL(16), USP(18) and RoHS(15) criteria. Reinforced with helically-wound spring steel wire.

Service Temperature Range:
+25°F (-4°C) to +150°F (+65°C)

NSF® This tubing/hose is certified under NSF/ANSI standard 51: Food Equipment Materials.

Features

- 29.9" HG vacuum rating
- Spiral wire reinforcement prevents kinking or collapsing. Hose diameter will not expand under normal rated working pressures
- Crystal clear - allows visual confirmation of product flow
- Glass-smooth interior - reduces material buildup
- Electrogalvanized helical steel wire can be used for static dissipation.(This product is designed to dissipate static electricity when the metal wire is properly connected to ground, through the fitting or other means).
- Resistant to chemicals
- Compound hardness 73 ±3 Shore "A"
- Self-extinguishing
- Non-marking
- Non-toxic
- Silicone-free
- One-piece lengths
- Special cut piece lengths available through 1" ID size - check with factory.

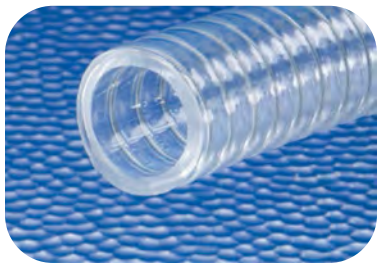
Applications

- Full vacuum lines
- Industrial vacuum pumps
- Food & beverage dispensing
- Air and water supply lines
- Car wash applications
- Coolant lines
- Air breathing lines
- Pneumatic parts transfer
- Deionized water systems

Size Code	Nominal ID (In)	Nominal ID (mm)	Nominal OD (In)	Nominal OD (mm)	Max. Working Pressure* (PSI) @70°F (20°C)	Max. Working Pressure* (PSI) @122°F (50°C)	Std. Coil Length	Approx. Wt. Per Pkg.	Min. Bend Radius @70°F	Manufacture Part #	ALSCO Part #	Price Per Ft. $
04	1/4	6.4	.500	12.7	250	80	50 ft.	5 lbs.	1”	K7130-04X50	249	1.04
04	1/4	6.4	.500	12.7	250	80	100 ft.	10 lbs.	1”	K7130-04X100	249-1	1.04
06	3/8	9.5	.625	15.9	150	80	50 ft.	6.5 lbs.	1 1/2”	K7130-06X50	250	1.44
06	3/8	9.5	.625	15.9	150	80	100 ft.	13 lbs.	1 1/2”	K7130-06X100	250-1	1.44
08	1/2	12.7	.813	20.7	150	80	50 ft.	10.5 lbs.	2”	K7130-08X50	251	2.22
08	1/2	12.7	.813	20.7	150	80	100 ft.	21 lbs.	2”	K7130-08X100	251-1	2.22
10	5/8	15.9	1.000	25.4	150	65	50 ft.	15 lbs.	2 1/2”	K7130-10X50	252	3.57
10	5/8	15.9	1.000	25.4	150	65	100 ft.	30 lbs.	2 1/2”	K7130-10X100	252-1	3.57
12	3/4	19.1	1.125	28.6	150	65	50 ft.	18 lbs.	3”	K7130-12X50	253	4.09
12	3/4	19.1	1.125	28.6	150	65	100 ft.	36 lbs.	3”	K7130-12X100	253-1	4.09
16	1	25.4	1.375	34.9	100	50	50 ft.	22 lbs.	4”	K7130-16X50	254	5.11
16	1	25.4	1.375	34.9	100	50	100 ft.	44 lbs.	4”	K7130-16X100	254-1	5.11
20	1 1/4	31.8	1.750	44.5	100	50	50 ft.	37 lbs.	5”	K7130-20X50*	255*	8.69
24	1 1/2	38.1	2.000	50.8	100	35	50 ft.	42 lbs.	6”	K7130-24X50*	256*	10.29
32	2	50.8	2.500	63.5	100	35	50 ft.	56 lbs.	8”	K7130-32X50*	257*	14.38

***25 Foot Lengths Available. Add (-1) to ALSCO Part #.**
FDA(03), USDA(17), 3A(01), NSF(13), UL(16), RoHS(15) and USP(18) Note: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Use of compression fittings with Kuri Tec® yarn-reinforced hose is not recommended. Hose claims involving use of these fittings with be disallowed.
CAUTION: This product is designed to dissipate static electricity when the metal wire is properly connected to ground, through the fitting or other means.

POLYSPRING® Series K7160 Standard Wall PVC Vacuum/Transfer Hose



Standard wall food and beverage grade vacuum/transfer hose with rated working pressures.

Construction

Crystal clear PVC compound, formulated with ingredients in compliance with applicable FDA(03) requirements, meets USDA(17), 3A(01), NSF(13) and RoHS(15) criteria. Reinforced with helically-wound spring steel wire.

Service Temperature Range:
+25°F (-4°C) to +150°F (+65°C)

NSF® This tubing/hose is certified under NSF/ANSI standard 51: Food Equipment Materials.

Features

- 29.9" HG vacuum rating
- Spiral wire reinforcement prevents kinking or collapsing. Hose diameter will not expand under normal rated working pressures
- Crystal clear - allows visual confirmation of product flow
- Glass-smooth interior - reduces material buildup
- Electrogalvanized helical steel wire can be used for static dissipation.(This product is designed to dissipate static electricity when the metal wire is properly connected to ground, through the fitting or other means).
- Resistant to chemicals
- Self-extinguishing
- Non-marking
- Non-toxic
- Silicone-free
- One-piece lengths
- Special cut piece lengths available through 1" ID size - check with factory.

Applications

- Full vacuum lines.
- Industrial vacuum pumps.
- Food & beverage dispensing.
- Air and water supply lines.
- Pneumatic parts transfer.
- Car wash applications.
- Coolant lines.
- Air breathing lines.
- Deionized water systems.

Size Code	Nominal ID (In)	Nominal ID (mm)	Nominal OD (In)	Nominal OD (mm)	Max. Working Pressure* (PSI) @70°F (20°C)	Max. Working Pressure* (PSI) @122°F (50°C)	Std. Coil Length	Approx. Wt. Per Pkg.	Min. Bend Radius @70°F	Manufacture Part #	ALSCO Part #	Price Per Ft. $
04	1/4	6.4	.460	11.7	150	70	50 ft.	3.5 lbs.	1”	K7160-04X50	258	0.83
04	1/4	6.4	.460	11.7	150	70	100 ft.	7 lbs.	1”	K7160-04X100	258-1	0.83
06	3/8	9.5	.600	15.2	100	70	50 ft.	5.5 lbs.	1 1/2”	K7160-06X50	259	1.29
06	3/8	9.5	.600	15.2	100	70	100 ft.	11 lbs.	1 1/2”	K7160-06X100	259-1	1.29
08	1/2	12.7	.750	19.1	100	70	50 ft.	7.5 lbs.	2”	K7160-08X50	260	1.69
08	1/2	12.7	.750	19.1	100	70	100 ft.	15 lbs.	2”	K7160-08X100	260-1	1.69
10	5/8	15.9	.891	22.6	100	50	50 ft.	9.5 lbs.	2 1/2”	K7160-10X50	261	2.02
10	5/8	15.9	.891	22.6	100	50	100 ft.	19 lbs.	2 1/2”	K7160-10X100	261-1	2.02
12	3/4	19.1	1.031	26.2	70	50	50 ft.	12 lbs.	3”	K7160-12X50	262	2.74
12	3/4	19.1	1.031	26.2	70	50	100 ft.	24 lbs.	3”	K7160-12X100	262-1	2.74
16	1	25.4	1.297	32.9	70	35	50 ft.	16.5 lbs.	4”	K7160-16X50	263	3.52
16	1	25.4	1.297	32.9	70	35	50 ft.	33 lbs.	4”	K7160-16X100	263-1	3.52
20	1 1/4	31.8	1.609	40.9	70	35	50 ft.	25 lbs.	5”	K7160-20X50*	264*	5.36
24	1 1/2	38.1	1.860	47.2	50	30	50 ft.	29 lbs.	6”	K7160-24X50*	265*	6.24
32	2	50.8	2.391	60.7	50	30	50 ft.	42 lbs.	8”	K7160-32X50*	266*	9.03
36	2 1/4	57.2	2.750	69.9	50	30	50 ft.	58 lbs.	9”	K7160-36X50*	267*	14.74
40	2 1/2	63.5	3.000	76.2	50	30	50 ft.	69 lbs.	10”	K7160-40X50*	268*	18.02
48	3	76.2	3.500	88.9	50	30	50 ft.	81 lbs.	12”	K7160-48X50*	269*	20.87

***25 Foot Lengths Available. Add (-1) to ALSCO Part #.**
FDA(03), USDA(17), 3A(01), NSF(13), RoHS(15) and USP(18) Note: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures. Use of compression fittings with Kuri Tec® yarn-reinforced hose is not recommended. Hose claims involving use of these fittings with be disallowed.
CAUTION: This product is designed to dissipate static electricity when the metal wire is properly connected to ground, through the fitting or other means.

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PVC Air & Water Hose

POLYAIR® Series K1131, K1134, K1136, K1137, K1138



Service Temperature Range:
-15°F (-26°C) to +150°F (+65°C)

Our high quality flexible PVC compounds are uniquely blended to make this hose look and feel like comparable rubber hose and stay flexible at low temperatures. Its light weight makes it an ideal hose for air tool applications.

Construction

- Tube — Black PVC compound.
- Reinforcement — Spiral polyester yarn with additional longitudinal yarns reduces elongation under pressure.
- Cover — PVC compound in five colors: K1131 - Yellow, K1134 - Red, K1136 - Blue, K1137 - Green, K1138 - Grey.

Features

- U. V. and weather resistant.
- Excellent cold weather flexibility.
- Easily re-coiled after use.
- Medium/high oil resistance, complies with RMA's
- Class B Designation.
- Non-marking pin-pricked cover.
- Lightweight.
- One-piece lengths.
- Chemical resistance of PVC.
- Silicone-free core and cover.
- RoHS(15) compliant.
- Individually shrink-wrapped assemblies are available.

Applications

- Ideal for in-plant applications requiring color coding of
- hose supply lines.
- Transfer of air, water and mild water-soluble chemicals.
- Outdoor applications requiring a low temperature hose.
- General air supply line for pneumatic tools and paint spray
- systems.
- Low pressure spray hose for water-soluble chemicals.

Size Code	Nominal ID		Nominal OD		Max. Working Pressure* (PSI)		Standard Coil Length	Approx. Wt. Per Pkg.	Yellow Part #	Red Part #	Blue Part #	Green Part #	Grey Part #	Price Per Ft. $
	(In)	(mm)	(In)	(mm)	@70°F (20°C)	@122°F (50°C)								
04	1/4	6.5	.500	12.7	300	180	100 ft.	8.0 lbs.	K1131-04X100	K1134-04X100	K1136-04X100	N/A	K1138-04X100	0.66
05	5/16	8.0	.625	15.9	300	180	100 ft.	13.0 lbs.	N/A	K1134-05X100	N/A	N/A	N/A	0.91
06	3/8	9.5	.625	15.9	300	180	100 ft.	11.0 lbs.	K1131-06X100	K1134-06X100	K1136-06X100	K1137-06X100	K1138-06X100	0.81
08	1/2	12.7	.813	20.7	300	180	100 ft.	18.0 lbs.	K1131-08X100	K1134-08X100	K1136-08X100	N/A	K1138-08X100	1.00
10	5/8	15.9	.906	23.0	250	125	100 ft.	19.0 lbs.	N/A	K1134-10X100	N/A	N/A	N/A	1.29
12	3/4	19.0	1.125	28.6	250	100	100 ft.	30.0 lbs.	K1131-12X100	K1134-12X100	K1136-12X100	N/A	K1138-12X100	1.85
16	1	25.4	1.406	35.7	250	100	100 ft.	41.0 lbs.	K1131-16X100	K1134-16X100	K1136-16X100	N/A	K1138-16X100	2.31

Some items are available in 300 ft. and 500 ft. reels. Contact Alsco Industrial Products, Inc. for details. 1-800-849-3030
RoHS (15) **Note**: For details of the following compliances, refer to footnotes listed on page 17.
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Series K1154, K1156



Service Temperature Range:
+14°F (-10°C) to +150°F (+65°C)

A general purpose PVC air and water hose for in plant and outdoor applications in temperate climate conditions.

Construction

- Tube - Black PVC compound.
- Reinforcement - High tensile strength yarn.
- Cover - PVC compound, available in two colors : K1154 - Red and K1156 - Blue.

Features

- Economical, flexible and lightweight.
- Excellent abrasion resistance
- U. V. and weather resistant
- Non-marking pin-pricked cover
- Silicone-free core and cover
- Complies with RMA's Class B designation for medium/ high oil resistance
- One piece lengths.

Applications

- Transfer of air, water and mild water soluble chemicals
- Ideal for in-plant applications that require an economical general purpose hose
- Excellent air supply line for pneumatic tools and paint spray systems.

Size Code	Nominal ID		Nominal OD		Max. Working Pressure* (PSI)		Standard Coil Length	Approx. Wt. Per Pkg.	Red Part #	Blue Part #	Price Per Ft. $
	(In)	(mm)	(In)	(mm)	@70°F (20°C)	@122°F (50°C)					
04	1/4	6.4	.500	12.7	300	150	100 ft.	8.0 lbs.	K1154-04X100	K1156-04X100	0.48
05	5/16	7.9	.625	15.9	300	150	100 ft.	13.0 lbs.	K1154-05X100	K1156-05X100	0.62
06	3/8	9.5	.625	15.9	300	150	100 ft.	11.0 lbs.	K1154-06X100	K1156-06X100	0.56
08	1/2	12.7	.750	19.1	300	150	100 ft.	14.0 lbs.	K1154-08X100	K1156-08X100	0.70
10	5/8	15.9	.895	22.6	200	100	100 ft.	18.0 lbs.	K1154-10X100	K1156-10X100	1.11
12	3/4	19.1	1.030	26.2	200	75	100 ft.	22.0 lbs.	K1154-12X100	K1156-12X100	1.26
16	1	25.4	1.313	33.3	150	75	100 ft.	31.0 lbs.	K1154-16X100	K1156-16X100	1.58

Some items are available in 300 ft. and 500 ft. reels. Contact Alsco Industrial Products, Inc. for details. 1-800-849-3030
Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

PVC Suction & Transfer Hose

Tigerflex® Hose • General Purpose • Standard Duty



Note: Comes in standard 100ft coils.

Features / Benefits
- PVC construction - provides durability.
- 6" hose has convoluted cover for greater flexibility - all other sizes have smooth exterior.
- Series H is clear with white helix.
- Series J is solid olive green.
- Series K is clear with dark green helix.
- Smooth bore construction allows full flow.
- Service Temp. Range: -4°F to 150°F

General Applications
- Construction and mining
- Irrigation lines
- Rock dusting
- Wellpoint systems
- Agri-foam systems
- Miscellaneous agricultural applications
- Liquid fertilizer transfer

Nominal (In)		Working Pressure PSI		Vacuum Rtg. (in Hg)		Min. Radius Bending @ 68°F (in)	Series H Part #	Series J Part #	Series K Part #	Price Per Ft. $
ID	OD	68°F	104°F	68°F	104°F					
3/4	0.94	110	70	28	26	3	5700-007-H	5700-007-J	5700-007-K	1.33
1	1.26	85	60	28	26	3	5700-010-H	5700-010-J	5700-010-K	1.56
1 1/4	1.51	85	60	28	24	4	5700-012-H	5700-012-J	5700-012-K	1.76
1 1/2	1.76	70	50	28	24	5	5700-015-H	5700-015-J	5700-015-K	2.34
2	2.32	65	45	28	24	7	5700-020-H	5700-020-J	5700-020-K	3.39
2 1/2	2.87	65	45	28	24	8	5700-025-H	5700-025-J	5700-025-K	5.07
3	3.41	65	40	28	22	10	5700-030-H	5700-030-J	5700-030-K	6.07
4	4.55	55	35	28	22	15	5700-040-H	5700-040-J	5700-040-K	10.06
6	6.75	40	25	28	20	30	5700-060-H	5700-060-J	5700-060-K	21.33

Tigerflex® Hose • General Purpose • Medium Duty



Note: Comes in standard 100ft coils.
*5" available in F Series only.

Features / Benefits
- PVC construction - provides durability.
- Smooth cover on sizes 3/4" through 5". Convoluted cover on 6" and 8" for greater flexibility.
- Series F is clear with grey helix.
- Series G is safety orange.
- Smooth bore construction - allows full flow.
- Service Temp. Range: -4°F to 150°F

General Applications
- Construction and mining
- Irrigation lines
- Rock dusting
- Wellpoint systems
- Agri-foam systems
- Miscellaneous agricultural applications
- Liquid fertilizer transfer

Nominal (In)		Working Pressure PSI		Vacuum Rtg. (in Hg)		Min. Radius Bending @ 68°F (in)	Series F Part #	Series G Part #	Price Per Ft. $
ID	OD	68°F	104°F	68°F	104°F				
3/4	0.94	115	75	Full	28	3	5701-007-F	5701-007-G	1.57
1	1.26	90	65	Full	28	3	5701-010-F	5701-010-G	2.16
1 1/4	1.51	90	65	Full	26	4	5701-012-F	5701-012-G	2.77
1 1/2	1.76	90	65	Full	26	5	5701-015-F	5701-015-G	3.08
2	2.38	90	65	Full	26	7	5701-020-F	5701-020-G	4.56
2 1/2	2.89	70	48	Full	26	8	5701-025-F	5701-025-G	6.89
3	3.44	65	45	Full	26	10	5701-030-F	5701-030-G	8.55
4	4.57	55	40	Full	26	15	5701-040-F	5701-040-G	14.22
5*	5.57	45	30	28	24	22	5701-050-F	-	20.58
6	6.77	40	25	28	22	25	5701-060-F	5701-060-G	26.85
8	8.90	30	20	28	18	30	5701-080-F	5701-080-G	46.10

Tigerflex® Hose • General Purpose • Heavy Duty



Note: Comes in standard 100ft coils.
Sizes 1 1/4", 3" and 4" available.

Features / Benefits
- Heavy duty PVC construction - provides superior vacuum rating.
- Series S is solid blue.
- Smooth cover on sizes 1" through 2". Convoluted cover on 3" and 4" for greater flexibility.
- Smooth bore construction - eliminates material build-up.
- Service Temp. Range: -4°F to 150°F

General Applications
- Trash pump hose.
- Irrigation pumping.
- Slurry handling.
- Latex paint transfer.

Nominal (In)		Working Pressure PSI		Vacuum Rtg. (in Hg)		Min. Radius Bending @ 68°F (in)	Series S Part #	Price Per Ft. $
ID	OD	68°F	104°F	68°F	104°F			
1	1.28	100	75	Full	Full	3	S100X100	2.16
1 1/2	1.83	100	65	Full	Full	6	S150X100	3.08
2	2.36	100	65	Full	Full	8	S200X100	4.56

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PVC Suction & Transfer Hose

Tigerflex® Hose · Heavy Duty Food Grade with Static Wire for Dry Applications



Features / Benefits

- Clear PVC construction — complies with all applicable FDA * and USDA ** requirements ... allows visual confirmation that material is flowing.
- Embedded static wire—prevents the built-up of static electricity ... helps to keep material flowing smoothly.
- Smooth bore construction — eliminates material build-up.
- Convoluted cover design— provides increased flexibility.

General Applications

- Pneumatic conveying systems for powder, pellets, or granular materials.
- Paper mill vacuum lines.

Service Temperature Range
-4°F to 150°F
Actual service temp. range is application-dependent.

Series WE

Nominal ID In. / mm	Nominal OD In.	Working Pressure PSI 68°F	Working Pressure PSI 104°F	Vacuum Rating Hg 68°F	Vacuum Rating Hg 104°F	Min. Radius Bending In. 68°F	Std. Length Ft.	Approx. Wt. Lbs./ Ft.	Part #	Price Per Foot
1 1/4	1.65	50	25	28	28	4	100/50	0.32	5703-012	$ 6.36
1 1/2	1.93	50	25	28	28	4	100/50	0.43	5703-015	6.63
2	2.40	40	20	28	24	4	100/50	0.58	5703-020	9.14
2 1/2	2.99	40	20	28	24	5	100/50	0.88	5703-025	11.05
3	3.64	40	20	28	24	6	100/50	1.25	5703-030	14.71
4	4.72	35	18	24	20	10	100/50	1.93	5703-040	24.07
5	5.74	30	15	24	20	16	60/50/20	2.40	5703-050	37.87
6	6.81	30	15	24	20	18	60/50/20	3.70	5703-060	41.96
1.77 / 44	2.09	45	25	28	24	4	60	.46	5703-017	8.38
2.24 / 56	2.63	40	22	28	24	5	60	.64	5703-022	10.27

* FDA — CFR Title 21 Parts 170 to 199.

** USDA — For use in Federally-inspected meat and poultry plants.

Tigerflex® Hose · Heavy Duty Food Grade for Dry Applications



Features / Benefits

- Clear PVC construction — complies with all applicable FDA * and USDA ** requirements and 3-A Sanitary Standards † ... allows visual confirmation that material is flowing.
- Smooth bore construction — eliminates material build-up.
- Convoluted cover design — provides increased flexibility.

General Applications

- Pneumatic conveying systems for powder, pellets, or granular materials.
- Food transfer systems.
- Poultry cleaning operations.

Service Temperature Range
-4°F to 150°F
Actual service temp. range is application-dependent.

* FDA - CFR Title 21 Parts 170 - 199.
** USDA- use in Federally-inspected meat & poultry plants.
† No. 20-15, Multi-use plastic materials as product contact surfaces in equipment for handling milk & milk products

Series WT

Nominal ID In. / mm	Nominal OD In.	Working Pressure PSI 68°F	Working Pressure PSI 104°F	Vacuum Rating Hg 68°F	Vacuum Rating Hg 104°F	Min. Radius Bending In. 68°F	Std. Length Ft.	Approx. Wt. Lbs./ Ft.	Part #	Price Per Foot
1	1.30	55	30	28	28	2	100/50	0.21	5704-010	$ 2.54
1 1/4	1.60	50	25	28	28	2	100/50	0.28	5704-012	3.01
1 1/2	1.92	50	25	28	28	3	100/50	0.35	5704-015	3.55
2	2.40	40	20	28	24	4	100/50	0.56	5704-020	4.83
2 1/2	2.99	40	20	28	24	5	100/50	0.77	5704-025	7.44
3	3.64	40	20	28	24	6	100/50	1.10	5704-030	9.58
4	4.72	35	18	24	22	10	100/50	1.80	5704-040	16.65
5	5.74	35	18	24	22	16	100/20	2.36	5704-050	27.99
6	6.81	30	15	24	22	18	100/50/20	3.54	5704-060	31.86
8	8.85	20	10	20	18	36	20	5.10	5704-080	48.79
1.77 / 44	2.09	45	25	28	24	4	50	.44	5704-017	5.26
2.24 / 56	2.63	40	22	28	24	5	50	.62	5704-022	6.96

Suction & Blower Hose

Tigerflex® Hose • Polyurethane Lightweight Blower Hose



Features / Benefits

- Lightweight polyurethane construction - provides extreme flexibility in sub-zero temperatures ... ideal hose for abrasive dust collection and blower applications.
- Green exposed helix design - allows for high abrasion-resistance and increased flexibility, slides easily, easier to handle.
- Smooth bore- provides unrestricted air-flow when laid straight with ends secured.

General Applications

- Grain clean-up wand hose.
- Rooftop cleaning wand hose.
- Insulation blowing.
- Lawn, leaf and mulch collection.
- Corrugated paper products scrap collection.

Service Temperature Range
-40°F to 150°F

Actual service temp. range is application-dependent.

Series UREVAC-1

Nominal ID In.	Nominal OD In.	Working Pressure PSI 68°F	Working Pressure PSI 104°F	Vacuum Rating (Inches Hg) 68°F	Vacuum Rating (Inches Hg) 104°F	Min. Radius Bending In. 68°F	Std. Length Ft.	Approx. Wt. Lbs./ Ft.	Part #	Price Per Foot
1 1/2	1.82	20	7	22	14	1	50	0.23	5708-015	$ 4.69
2	2.39	15	6	21	12	2	50	0.32	5708-020	6.97
2 1/2	2.89	10	5	19	10	2	50	0.40	5708-025	8.53
3	3.46	10	5	18	10	3	50	0.49	5708-030	9.88
4	4.50	8	4	13	8	4	50	0.77	5708-040	14.24
5	5.50	7	3	10	7	5	50	0.91	5708-050	21.55
6	6.54	6	3	7	5	6	50	1.18	5708-060	26.67
8	8.59	4	2	5	3	8	50	1.74	5708-080	43.19

Tigerflex® Hose • Heavy Duty Food Grade for Dry or Liquid Applications



Features / Benefits

- Clear PVC construction — complies with all applicable FDA * and USDA ** requirements and 3-A Sanitary Standards † ... allows visual confirmation that material is flowing.
- Smooth bore construction — eliminates material build-up.
- Smooth cover — makes clamping easier.
- Service Temp. Range: -4°F to 150°F

General Applications

- Pneumatic conveying systems for powder, pellets, or granular materials.
- Transfer of liquid or dry dairy products.
- Fish processing equipment.
- Syrup and juice transfer.
- Poultry cleaning operations.

Actual service temp. range is application-dependent.

* FDA - CFR Title 21 Parts 170 - 199.

** USDA- use in Federally-inspected meat & poultry plants.

† No. 20-15, Multi-use plastic materials as product contact surfaces in equipment for handling milk & milk products

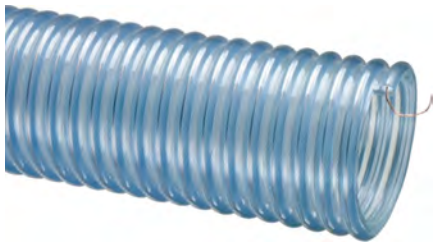
Series FT

Nominal ID In.	Nominal OD In.	Working Pressure PSI 68°F	Working Pressure PSI 104°F	Vacuum Rating Hg 68°F	Vacuum Rating Hg 104°F	Min. Radius Bending In. 68°F	Std. Length Ft.	Approx. Wt. Lbs./ Ft.	Part #	Price Per Foot
3/4	0.94	115	75	Full	28	3	100	0.17	5705-007	$ 2.85
1	1.28	100	70	Full	28	3	100	0.24	5705-010	2.85
1 1/4	1.56	90	65	Full	28	4	100	0.44	5705-012	3.58
1 1/2	1.80	85	60	Full	28	6	100	0.50	5705-015	4.00
2	2.36	85	60	Full	26	8	100	0.71	5705-020	6.60
2 1/2	2.88	65	45	Full	26	10	100	0.94	5705-025	8.64
3	3.42	55	40	Full	24	11	100	1.14	5705-030	11.59
4	4.51	50	35	Full	24	18	100/60	1.91	5705-040	19.81
5	5.51	40	25	28	23	28	20	2.41	5705-050	25.30
6	6.59	30	20	28	15	48	20	3.28	5705-060	37.88
8	8.85	25	15	28	10	60	20	5.67	5705-080	62.71

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Polyurethane-lined PVC Hose

Tigerflex® Hose • Food Grade Material Handling Hose with embedded static wire • For Dry Applications



The quiet, super abrasion-resistant hose that shows the flow!

Features / Benefits

- **Food grade Polyurethane lining —** complies with all applicable FDA[1] and USDA[3] requirements.
- **Food grade PVC convoluted cover —** complies with all applicable FDA[2] and USDA[3] requirements ... provides increased flexibility.
- **Embedded static wire —** prevents the build-up of static electricity ... helps keep material flowing smoothly.
- **"See-through" construction —** clear cover and translucent liner allows visual confirmation that material is flowing.
- **Smooth polyurethane liner —** reduces material build-up ... provides high abrasion resistance and quiet operation (polymer pellet transfer through Series 2001 can be 60 - 70% quieter than with stainless steel hoses.

General Applications

- **Pneumatic conveying systems for powder, pellets or other dry granular materials.**
- **Dry food transfer systems, such as flour, rice, grains, etc.**

NOTE: Service life may vary depending on operating conditions and type of material being conveyed. Not for liquid handling use.

Service Temperature Range
-4°F to 150°F
Actual service temperature range is application-dependent

Series 2001

Nominal ID In.	Nominal OD In.	Working Pressure PSI 68°F	Working Pressure PSI 104°F	Vacuum Rating Hg 68°F	Vacuum Rating Hg 104°F	Min. Radius Bending In. 68°F	Std. Length Ft.	Approx. Wt. Lbs./ Ft.	Part #	Price Per Foot
1 1/2	1.88	50	25	Full	28	6	60	0.50	5702-015	$ 12.20
2	2.44	40	20	Full	28	7	60	0.69	5702-020	16.79
2 1/2	3.12	40	20	Full	28	8	60	1.02	5702-025	20.33
3	3.70	40	20	Full	28	9	60	2.25	5702-030	27.06
4	4.80	35	18	Full	28	15	60/20	3.63	5702-040	43.39
5	5.81	35	18	28	25	23	60/20	4.62	5702-050	65.67
6	6.93	30	15	28	25	26	60/20	6.50	5702-060	80.73
7	8.08	30	15	28	25	30	60/20	8.67	5702-070	107.19
8	9.28	30	15	28	25	36	60/20	11.08	5702-080	133.56

[1] FDA — CFR Title 21 Parts 177.1680 and 177.2600 requirements.
[2] FDA — CFR Title 21 Parts 170 to 199 requirements.
[3] USDA — For use in Federally-inspected meat and poultry plants.

Because ways are continually examined to improve the hose products, we reserve the right to alter specifications without notice.

Tiger Clamps™ Spiral Double Bolt Clamps for Counterclockwise Helix Hoses / Series SDBC



Features:

- Zinc plated carbon steel.
- Two or more Tiger-Clamps™ are suggested for 3" ID and larger hoses.
- Both hex nuts should be tightened equally to prevent leakage.
- Caution: proper evaluation of holding power for each clamp must be determined for each individual application.

Fits Hose ID (In.)	Part #	Price $	Fits Hose ID (In.)	Part #	Price $
1 1/2	5706-015	3.93	5	5706-050	8.80
2	5706-020	4.47	6	5706-060	11.63
2 1/2	5706-025	4.88	8	5706-080	15.76
3	5706-030	5.65	10	5706-100	17.72
4	5706-040	6.99	12	5706-120	24.86

Linear Low Density Polyethylene Tubing



Linear Low Density Polyethylene plastic tubing (LLDPE) is far superior to any LDPE, yet just as economical. With its superb stress-crack resistance, Linear Low Density Polyethylene plastic tubing is ideal for applications requiring low-temperature flexibility and durability. LLDPE tubing is widely used in transporting air, water and chemicals. NSF 51/61 LLDPE tubing is manufactured from raw materials meeting FDA requirements.

LLDPE Tubing Colors:
Natural (milky white), Black (good for improved durability in direct sunlight and outdoor exposure), White, Blue, Green, Grey, Orange, Purple, Red, Yellow

Coil and Reel Lengths available in 500' and 1000' in certain sizes. Contact Sales Office for more information.

Linear Low Density Polyethylene Tubing - 100 Foot Coil

O.D. Size	I.D. Size	Wall Thickness	PSI @ 73°F	Colors										Price $ Per Foot
				Natural	Black	White	Blue	Green	Grey	Orange	Purple	Red	Yellow	
1/4	.170	.040	205	H9600-N	H9600-B	H9600-W	H9600-BU	H9600-G	H9600-GR	H9600-O	H9600-P	H9600-R	H9600-Y	0.09
5/16	3/16	1/16	268	H9601-N	H9601-B	N/A	H9601-BU	H9601-G	N/A	H9601-O	N/A	H9601-R	H9601-Y	0.15
3/8	1/4	1/16	214	H9602-N	H9602-B	H9602-W	H9602-BU	H9602-G	H9602-GR	H9602-O	H9602-P	H9602-R	H9602-Y	0.18
1/2	3/8	1/16	153	H9603-N	H9603-B	H9603-W	H9603-BU	H9603-G	H9603-GR	H9603-O	H9603-P	H9603-R	H9603-Y	0.26
5/8	1/2	1/16	119	H9604-N	H9604-B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.29
3/4	5/8	1/16	97	H9605-N	H9605-B	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.36

NSF 51/61 Linear Low Density Polyethylene Tubing - 100 Foot Coil

O.D. Size	I.D. Size	Wall Thickness	PSI @ 73°F	Colors		Price $ Per Foot
				Natural	Black	
1/4	.170	.040	205	H9613-N	N/A	0.11
5/16	3/16	1/16	268	H9614-N	H9614-B	0.18
3/8	1/4	1/16	214	H9615-N	N/A	0.22
1/2	3/8	1/16	153	H9616-N	N/A	0.31
5/8	1/2	1/16	119	H9617-N	H9617-B	0.39
3/4	5/8	1/16	97	H9618-N	N/A	0.48

Polypropylene Tubing



Durable and heat resistant, this clarity grade polypropylene plastic tubing is ideal for the transfer of hot liquids or gases, or where higher temperatures and pressures are expected. Normally recommended for vacuum systems, polypropylene plastic tubing also has excellent resistance to acids and alkalies, but poor resistance to aromatic, aliphatic and chlorinated solvents. NSF 51 Polypropylene tubing is manufactured from raw materials meeting FDA requirements. For best results, use sleeved compression fittings with all thermoplastic tubing.

Polypropylene Plastic Tubing Colors:
White (semi-opaque white), Black (good for improved durability in direct sunlight and outdoor exposure)

Polypropylene Tubing - 100 Foot Coil

O.D. Size	I.D. Size	Wall Thickness	PSI @ 73°F	Colors		Price $ Per Foot
				White	Black	
1/4	1/8	1/16	272	H9606-W	H9606-B	0.40
1/4	.170	.040	149	H9607-W	H9607-B	0.28
3/8	1/4	1/16	157	H9609-W	H9609-B	0.50
1/2	3/8	1/16	112	H9610-W	H9610-B	0.52
5/8	1/2	1/16	87	H9611-W	N/A	0.65

NSF 51 Polypropylene Tubing - 100 Foot Coil

O.D. Size	I.D. Size	Wall Thickness	PSI @ 73°F	Colors		Price $ Per Foot
				White	Black	
1/4	1/8	1/16	272	H9620-W	H9620-B	0.40
1/4	.170	.040	149	H9621-W	H9621-B	0.28
3/8	1/4	1/16	157	H9622-W	H9622-B	0.50
1/2	3/8	1/16	112	H9623-W	H9623-B	0.52
5/8	1/2	1/16	87	H9624-W	N/A	0.65
3/4	5/8	1/16	71	H9625-W	N/A	0.70

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 030419

Plastic Tubing

PTFE FEP Chemical Tubing



Features:

- Complete chemical inertness; low permeability
- Lowest coefficient of friction of any solid material
- Widest service temperature of any plastic tubing (-275°F to 500°F)
- Excellent electrical and weatherability properties, non-flammable
- Not made with plasticizer which can leach into critical streams
- Sizes available 1/8" OD through 2 1/8" OD

Applications:

- Medical
- Laboratory
- Beverage
- Food Transfer
- Pure Water System
- Adhesives
- Corrosives
- Solvents
- Sight Glass
- Chemical Plants
- Deionized Water Transfer

Note: FEP and PFA are clear and can be heat sealed and heat bonded. TFE is translucent white in color.

O.D. (In)	I.D. (In)	Wall (In)	Std. Length Ft.	ALSCO Part #	Price Per Ft. $
1/8	1/16	.030	50	1312	1.08
1/4	1/8	.063	50	1313	3.63
5/16	1/4	.030	50	1314	2.74
3/8	1/4	.063	25	1315	5.35
3/8	5/16	.030	25	1316	3.05
1/2	3/8	.063	25	1317	7.81
1/2	7/16	.030	25	1318	4.29
5/8	1/2	.063	25	1319	9.83
3/4	5/8	.063	25	1321	12.21
3/4	11/16	.032	25	1322	7.49
7/8	3/4	.063	5	1323*	15.15
1	7/8	.063	5	1324*	18.28
1 1/8	1	.063	5	1325*	21.40
1 3/8	1 1/4	.063	5	1327*	26.79
1 5/8	1 1/2	.063	5	1328*	33.79
2 1/8	2	.063	5	1329*	31.14

Physical Properties **

	FEP
Hardness, Shore D	50 -55
Specific Gravity	2.15
Tensile Strength, PSI	3500
Elongation at Break, %	300
Brittle Temperature	-400°F
Max. Continuous Operating Temperature	400°F

Note: Metric Sizes available. TFE and PFA are also available.
Other sizes available that are not listed.
*Straight lengths
**Values listed are typical and are meant only as a guide to aid in design. Field testing should be done to find the actual values for the application.

FPM Flexible Tubing

Vitube® Flexible Tubing



Sold in Standard Lengths only.

FPM Flexible Tubing

Features:

- A high performance synthetic rubber
- Excellent temperature resistance; -40°F to 400°F continuously
- Offers the widest range of fluid and chemical resistance of any commercial rubber
- Excellent resistance to oils, fuels, lubricants and most mineral acids
- Also resistant to many aliphatic and aromatic hydrocarbons such as carbon tetrachloride, benzene, toluene and xylene
- Not to be used with foods, beverages, & drugs
- 75 Shore A durometers. 60 and 90 available.

Applications: Fuel & Oil Lines, Seals, O-Rings, Cable Jacketing, Chemical Lines, Peristaltic Pumps, Solvents, Hot Lubrication, Model Engine Exhaust.

I.D. (In)	O.D. (In)	Wall (In)	Std. Length (Ft)	ALSCO Part #	Price Per Ft. $
1/16	1/8	1/32	100	1280	2.20
1/8	1/4	1/16	100	1281	4.56
3/16	5/16	1/16	100	1282	5.36
1/4	3/8	1/16	50	1283	6.46
5/16	7/16	1/16	50	1284	8.53
3/8	1/2	1/16	50	1285	10.02

Note: Prices are for 75 Shore A durometers. 60 and 90 Shore A durometers are available.
7/8" I.D. available as are many other sizes.
All photos are courtesy of New Age Industries, Inc.

PVDF Flexible Tubing

Kynar® PVDF Chemical & High Purity Tubing

Made from Natural Kynar Flex 2800 Resin



Features:

- High Purity
- Increased clarity
- High temperature flexible
- Chemically resistant to higher pH range
- Expanded impact strength

Sold in 50 ft. Lengths only.

O.D. (In)	I.D. (In)	Wall (In)	ALSCO Part #	Price Per Ft. $
3/16	1/8	.032	4201	.95
1/4	.170	.040	4203	1.97
3/8	5/16	.032	4204	2.01
1/4	1/8	.062	4206	2.13
5/16	3/16	.062	4207	2.96
3/8	1/4	.062	4208	3.71
7/16	5/16	.062	4209	4.28
1/2	3/8	.062	4210	5.11
5/8	1/2	.062	4211	6.42
3/4	5/8	.062	4212	8.01
7/8	3/4	.062	4213	9.09

Plastic Tubing

Silicone Tubing

- Made from FDA approved ingredients
- Able to resist extreme temperature variances; -100°F to 500°F
- Natural translucent color for visual contact with the flow
- Odorless, tasteless, and inert
- Resilient, stretchable, and resistant to compression set
- Good weatherability properties — resists U.V., ozone, gases, and moisture
- Braid Reinforced Silicone Tubing available



Applications:

- Hot Water • Computer • Gaskets
- Insulating Sleeving • Food Service
- Duplicating Equipment
- Beverage Service • Laboratory
- Thermal Protection

Silicon Tubing for Medical use available

Sold in Standard Lengths only.

I.D.	O.D.	Wall	Standard Length / FT.	Part #	Price / Ft.
1/8	1/4	1/16	100	1330	.54
1/8	5/16	3/32	100	1331	.79
3/16	1/4	1/32	100	1332	.58
1/4	5/16	1/32	100	1333	.85
1/4	3/8	1/16	100	1334	.80
3/8	1/2	1/16	100	1335	1.13
3/8	5/8	1/8	100	1336	2.31
1/2	5/8	1/16	100	1337	1.29
1/2	3/4	1/8	100	1338	2.88
5/8	3/4	1/16	100	1339	1.72
3/4	1	1/8	50	1340	4.57

Note: Other sizes available that are not listed. Photos are courtesy of New Age Industries.

Note: Custom sizes, colors, shapes, and other durometers are available through minimum order.

Physical Properties *

Hardness, Shore A ± 5	50
Specific Gravity	1.14
Tensile Strength, PSI	1100
Elongation at Break, %	375
Brittle Temperature	-100°F
Max. Operating Temperature	500°F
Comp. Set, 22 hrs. at 177°F	29%

*Values listed are typical and are meant only as a guide to aid in design. Field testing should be done to find the actual values for the application.

Unreinforced Polyurethane Tubing

- Clear, flexible, resilient, tough; excellent resistance to oils, greases, and fuels
- Resistant to weathering, tearing, impact, radiation, and abrasion
- Available in both ester and ether formulations
- Wide range of temperature resistance; -95°F - 200°F
- Contains no plasticizer which can migrate and cause contamination or tube hardening
- Sizes available 1/16" ID through 2" ID



Applications:

- Slurry Transfer • Metering Pumps
- Grease Lines • Vacuum Equipment
- Computer Disc Drives • Robotics
- Small Motor Fuel Lines
- Granular Transfer Lines

Sold in Standard Lengths only.

			(Standard Length 100 Ft.)		
I.D.	O.D.	Wall	Working PSI @ 70°F	Part # Ester *	Price / Ft.
1/16	1/8	1/32	134	1298	$0.17
1/8	3/16	1/32	72	1299	$0.22
1/8	1/4	1/16	133	1300	$0.32
3/16	1/4	1/32	27	1301	$0.25
1/4	3/8	1/16	67	1303	$0.48
1/4	1/2	1/8	131	1304	$1.08
5/16	7/16	1/16	65	1305	$0.55
3/8	1/2	1/16	59	1306	$0.64
3/8	5/8	1/8	100	1307	$1.50
1/2	5/8	1/16	36	1308	$0.84
1/2	3/4	1/8	60	1309	$1.78
5/8	7/8	1/8	60	1310	$2.01
3/4	1	1/8	51	1311	$2.28

Note: Other sizes available that are not listed.
Ether available. Photos are courtesy of New Age Industries, Inc.

Note: The listed working pressures are based on a short term burst using a 3 to 1 safety factor.

Physical Properties *

	ESTER
Hardness, Shore A ±5	85
Specific Gravity	1.19
Tensile Strength, PSI	5800
Elongation at Break, %	500
Brittle Temperature	<-95°F
Max. Operating Temp.	200°F

*Values listed are typical and are meant only as a guide to aid in design. Field testing should be done to find the actual values for the application.

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PARKER® Tube Fittings

Fast & Tite Fittings • Polypropylene and Nylon

Available in White Nylon or Black Polypropylene. Patented FAST & TITE fittings install without tools in seconds and provide a tight, sure, leakproof seal without clamps or adjustments. A unique 302 stainless steel "grab ring" for tube retention, coupled with a Nitrile "O"-Ring for positive seal assures good tube connection with only hand tight assembly. Vibration or tube movement will not break the seal and cause leakage. Use fittings with plastic, glass, or metal tubing for low pressure or vacuum lines up to the pressure limits shown. Fittings meet F.D.A. and NSF requirements for food contact and potable water.

Temperature Range: Black PP: 0° to 212°F , White Nylon: -40° to +200°F

Recommended Working Pressures
Air-Oil Water Pressure in PSI

Tube OD	to 75°F	to 125°F	to 175°F
1/4"	300	300	300
5/16"	300	300	300
3/8"	250	250	150
1/2"	200	200	150
5/8"	150	100	50

Ratings are based on use with copper tubing, consult factory for recommendations on other applications.

Description

Note:
Black PP pictured
White Nylon also listed.

Male Connector MC



Tube to male pipe

Nominal Tube OD	NPT Size	Black PP	White Nylon	Price $
1/4	1/8	0328	0329	1.40
1/4	1/4	0330	0331	1.41
5/16	1/8	0332	0333	2.68
5/16	1/4	0334	0335	1.58
5/8	1/8	0336	0337	1.71
3/8	1/4	0338	0339	1.71
3/8	3/8	0340	0341	1.80
3/8	1/2	0342	0343	1.94
3/8	3/4	0344	0345	2.02
1/2	1/8	0346	0347	2.74
1/2	1/4	0348	0349	2.05
1/2	3/8	0350	0351	2.48
1/2	1/2	0352	0353	2.74
1/2	3/4	0354	0355	2.79
5/8	1/8	0356	-	2.70
5/8	1/4	0358	0359	3.75
5/8	3/8	0360	0361	4.29
5/8	1/2	0362	0363	3.17
5/8	3/4	0364	0365	3.36

Tee Union TU



Tube to tube

1/4	-	0366	0367	4.04
5/16	-	0368	0369	7.36
3/8	-	0370	0371	4.57
1/2 - 3/8	-	0372	0373	5.36
1/2	-	0374	0375	6.05
5/8 - 3/8	-	0376	0377	16.68
5/8	-	0378	0379	9.20

Male Elbow ME



Tube to male pipe

1/4	1/8	0380	0381	1.80
1/4	1/4	0382	0383	1.82
1/4	3/8	0384	0385	2.24
5/16	1/8	0386	0387	2.46
5/16	1/4	0388	0389	2.68
5/16	3/8	0390	0391	3.24
3/8	1/4	0392	0393	2.48
3/8	3/8	0394	0395	2.59
3/8	1/2	0396	0397	2.88
3/8	3/4	0398	0399	2.92
1/2	3/8	0400	0401	3.09
1/2	1/2	0402	0403	3.17
5/8	1/2	0404	0405	3.34

Male Run Tee MR



Tube to male pipe

1/4	1/8	0406	0407	3.77
3/8	1/4	0408	0409	5.61
1/2	3/8	0410	0411	5.30
5/8	1/2	0412	0413	15.80

Female Connector FC



Tube to female pipe

1/4	1/8	0414	0415	2.61
1/4	1/4	0416	0417	2.39
3/8	1/4	0418	0419	2.54
3/8	3/8	0420	0421	3.21
3/8	1/2	0422	0423	3.59
1/2	3/8	0424	0425	4.27
1/2	1/2	0426	0427	3.87
5/8	1/2	0428	0429	3.14

Nut and Spacer Sets NS



1/4	-	0430	0431	.57
5/16	-	0432	0433	1.08
3/8	-	0434	0435	.66
1/2	-	0436	0437	.75
5/8	-	0438	0439	1.37

Description

Union Connector UC



Tube to tube

Nominal Tube OD	NPT Size	Black PP	White Nylon	Price $
1/4	-	0440	0441	2.35
5/16 - 1/4	-	0442	0443	3.30
5/16	-	0444	0445	2.83
3/8 - 1/4	-	0446	0447	2.60
3/8 - 5/16	-	0448	0449	3.88
3/8	-	0450	0451	2.90
1/2 - 3/8	-	0452	0453	3.84
1/2	-	0454	0455	3.36
5/8 - 3/8	-	0456	0457	3.41
5/8	-	0458	0459	4.98
5/8 - 1/2	-	0460	0461	5.21

Elbow Union EU



Tube to tube

1/4	-	0462	0463	2.90
5/16 - 1/4	-	0464	0465	4.11
5/16	-	0466	0467	3.23
3/8 - 1/4	-	0468	0469	3.75
3/8 - 5/16	-	0470	-	3.34
3/8	-	0472	0473	3.80
1/2 - 3/8	-	0474	0475	4.05
1/2	-	0476	0477	4.23
5/8	-	0478	0479	4.74

Female Elbow FE



1/4	1/8	0480	0481	2.68
1/4	1/4	0482	0483	3.41
5/16	1/8	0484	0485	3.25
3/8	1/4	0486	0487	3.21
3/8	3/8	0488	0489	3.21
1/2	3/8	0490	0491	3.50
1/2	1/2	0492	0493	3.21
5/8	1/2	0494	0495	3.75

Bulkhead Union BU



Tube to tube

1/4	-	0496	0497	5.24
5/16	-	0498	0499	7.66
3/8	-	0500	0501	7.03
1/2	-	0502	0503	6.95

Male Branch Tee MT



Tube to male pipe

1/4	1/8	0504	0505	3.57
1/4	1/4	0506	0507	3.61
5/16	1/8	0508	-	4.17
5/16	1/4	0510	0511	8.00
3/8	1/4	0512	0513	3.86
3/8	3/8	0514	0515	3.91
1/2	3/8	0516	0517	5.52
1/2	1/2	0518	0519	5.88
5/8	1/2	0520	0521	10.33

Tube Support TS



Tube ID				
	1/4	0522	0523	.64
	5/16	0524	0525	1.62
	3/8	0526	0527	.66
	1/2	0528	0529	.88
	5/8	0530	0531	3.15

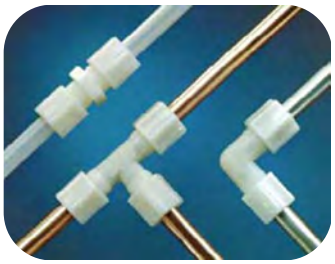
Grab Ring GR **O-Ring OR**



NOTE: Grab Rings are SS

Size Inch	GR Part #	Price $	OR Part #	Price $
1/4	0532	.20	0533	.25
5/16	0534	.22	0535	.27
3/8	0536	.22	0537	.29
1/2	0538	.25	0539	.32
5/8	0540	.25	0541	.40

Nylon, Celcon, Polypro & Kynar



Jaco Nylon, Celcon, Polypro & Kynar Tube Fittings

- Available in sizes 1/8"- 7/8" tube OD
- Used with all types of tubing copper, plastic, aluminum, and glass.
- Typically cost less than metal fittings
- Corrosion and chemical resistant

Note: Some fittings not available up to 7/8". It is not necessary to disassemble these fittings for application. Merely insert tubing to tube stop and tighten for seal.

(N) Nylon has good resistance to organic solvents, oils and gasoline. Good strength at high temps. Material rating: -40° to 200° F. Cold and hot-water applications. Longtime weathering resistance. Good impact resistance, both single and repeated. Not recommended for use with ammonium, boric acid, calcium, sulfuric acid, or hydrochloric acid. FDA & NSF listed.

(C) Celcon (acetal copolymer) has high tensile strength and good impact resistance over a broad temp. range. Translucent white color. Not affected by continuous hot-water service and works smoothly with metal tubing. Celcon can't be recommended for continuous exposure to solutions with a chlorine concentration greater than 1 ppm. Material is rated at -40° to 200° in open air, and rated for 180° F in water applications. Unaffected by most inorganics, except sulfuric, nitric and hydrochloric acids. Listed by USDA and FDA for coffee, milk and antibiotics. NSF listed. Should not be continuously exposed to sunlight.

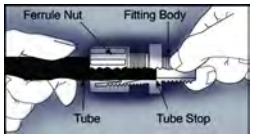
(P) Polypropylene has good chemical resistance. Material is rated at -30° to 215° F. Opaque, white color. Unaffected by most weak acids and alkalies. Below 175° F, it has good resistance to organic solvents. Do not use with oxidants or strong acids or in continuous sunlight. 20% glass filled for improved stiffness. NSF listed.

(K) Kynar, a polyvinylidene fluoride, has outstanding chemical resistance for handling highly corrosive fluids. Material rated at -80° to 275° F, with a cloudy, white color. FDA & NSF listed.

***Operating pressures of JACO tube fittings are regulated by ambient and fluid temperatures, type of fluid being carried, tubing type, and conditions of mechanical abuse. Pressures in excess of specifications listed below in all fitting sizes should be tested by the customer in their particular application.**

INSTALLATION INSTRUCTIONS FOR JACO TUBE FITTINGS

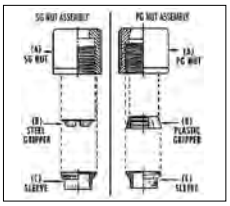
1. Cut the tubing end squarely and remove the internal and exteral burrs.
2. Insert the tubing through the back of the nut all the way through the nut assembly to the tube stop in the fitting body (see illustration). If the tubing does not enter the nut easily, loosen the nut one turn and then insert the tubing all the way to the tube stop in the fitting body.
3. Turn the nut hand tight.
4. Wrench tighten the nut 11/2-2 turns.
5. All nuts must be retightened when the system reaches projected operating temperature.

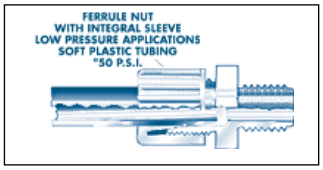


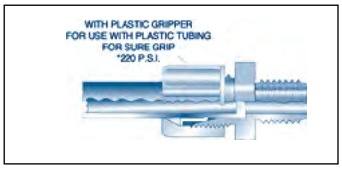
NOTE: Squeaking sound when tightening nut is normal. For pipe threaded connections, PTFE Tape must be used.

ASSEMBLY INSTRUCTIONS FOR JACO NUTS

Please follow these diagrams in assembling nuts. As shown below, insert gripper (B) into nut (A). Push sleeve (C) into nut assembly.









Male Connector



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/8	0542-C	0542-N	0542-P	.54	0542-K	2.77
1/4	1/8	0543-C	0543-N	0543-P	.60	0543-K	3.17
1/4	1/4	0544-C	0544-N	0544-P	.66	0544-K	3.32
1/4	3/8	0545-C	0545-N	0545-P	.68	0545-K	3.94
5/16	1/8	0546-C	0546-N	0546-P	.69	0546-K	3.51
5/16	1/4	0547-C	0547-N	0547-P	.71	0547-K	3.59
3/8	1/8	0548-C	0548-N	0548-P	.79	0548-K	4.87
3/8	1/4	0549-C	0549-N	0549-P	.80	0549-K	5.01
3/8	3/8	0550-C	0550-N	0550-P	.88	0550-K	5.23
3/8	1/2	0551-C	0551-N	0551-P	1.08	0551-K	5.93
1/2	1/8	0552-C	0552-N	0552-P	1.34	0552-K	5.46
1/2	1/4	0553-C	0553-N	0553-P	1.38	0553-K	6.65
1/2	3/8	0554-C	0554-N	0554-P	1.08	0554-K	6.00
1/2	1/2	0555-C	0555-N	0555-P	1.15	0555-K	6.40
5/8	3/8	-	-	-	-	-	-
5/8	1/2	-	-	-	-	-	-
3/4	1/2	-	-	-	-	-	-
3/4	3/4	-	-	-	-	-	-
7/8	3/4	-	-	-	-	-	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/8	-	-	-	-	-	-
1/4	1/8	0543-CG	0543-NG	0543-PG	.76	0543-KG	3.31
1/4	1/4	0544-CG	0544-NG	0544-PG	.82	0544-KG	3.46
1/4	3/8	0545-CG	0545-NG	0545-PG	.84	0545-KG	4.08
5/16	1/8	0546-CG	0546-NG	0546-PG	.83	0546-KG	3.66
5/16	1/4	0547-CG	0547-NG	0547-PG	.85	0547-KG	3.74
3/8	1/8	0548-CG	0548-NG	0548-PG	.97	0548-KG	4.93
3/8	1/4	0549-CG	0549-NG	0549-PG	.98	0549-KG	5.07
3/8	3/8	0550-CG	0550-NG	0550-PG	1.08	0550-KG	5.29
3/8	1/2	0551-CG	0551-NG	0551-PG	1.27	0551-KG	6.00
1/2	1/8	0552-CG	0552-NG	0552-PG	1.56	0552-KG	5.53
1/2	1/4	0553-CG	0553-NG	0553-PG	1.62	0553-KG	6.72
1/2	3/8	0554-CG	0554-NG	0554-PG	1.31	0554-KG	6.06
1/2	1/2	0555-CG	0555-NG	0555-PG	1.38	0555-KG	6.46
5/8	3/8	0900-CG	0900-NG	0900-PG	1.51	0900-KG	7.66
5/8	1/2	0901-CG	0901-NG	0901-PG	1.53	0901-KG	7.98
3/4	1/2	0902-CG	0902-NG	0902-PG	2.52	0902-KG	11.26
3/4	3/4	0903-CG	0903-NG	0903-PG	2.62	0903-KG	11.62
7/8	3/4	0904-CG	0904-NG	0904-PG	2.89	0904-KG	12.75

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/8	-	-	-	-	-	-
1/4	1/8	0543-CGS	0543-NGS	0543-PGS	.76	0543-KGS	3.31
1/4	1/4	0544-CGS	0544-NGS	0544-PGS	.82	0544-KGS	3.46
1/4	3/8	0545-CGS	0545-NGS	0545-PGS	.84	0545-KGS	4.08
5/16	1/8	0546-CGS	0546-NGS	0546-PGS	.83	0546-KGS	3.66
5/16	1/4	0547-CGS	0547-NGS	0547-PGS	.85	0547-KGS	3.74
3/8	1/8	0548-CGS	0548-NGS	0548-PGS	.97	0548-KGS	4.93
3/8	1/4	0549-CGS	0549-NGS	0549-PGS	.98	0549-KGS	5.07
3/8	3/8	0550-CGS	0550-NGS	0550-PGS	1.08	0550-KGS	5.29
3/8	1/2	0551-CGS	0551-NGS	0551-PGS	1.27	0551-KGS	6.00
1/2	1/8	0552-CGS	0552-NGS	0552-PGS	1.56	0552-KGS	5.53
1/2	1/4	0553-CGS	0553-NGS	0553-PGS	1.62	0553-KGS	6.72
1/2	3/8	0554-CGS	0554-NGS	0554-PGS	1.31	0554-KGS	6.06
1/2	1/2	0555-CGS	0555-NGS	0555-PGS	1.38	0555-KGS	6.46
5/8	3/8	0900-CGS	0900-NGS	0900-PGS	1.51	0900-KGS	7.66
5/8	1/2	0901-CGS	0901-NGS	0901-PGS	1.53	0901-KGS	7.98
3/4	1/2	0902-CGS	0902-NGS	0902-PGS	2.52	0902-KGS	11.26
3/4	3/4	0903-CGS	0903-NGS	0903-PGS	2.62	0903-KGS	11.62
7/8	3/4	0904-CGS	0904-NGS	0904-PGS	2.89	0904-KGS	12.75

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JACO Tube Fittings

Female Elbow



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/4	0587-C	0587-N	0587-P	1.17	0587-K	3.31
1/4	1/8	0588-C	0588-N	0588-P	1.22	0588-K	3.51
1/4	1/4	0589-C	0589-N	0589-P	1.24	0589-K	3.70
5/16	1/4	0590-C	0590-N	0590-P	1.42	0590-K	4.04
3/8	1/4	0591-C	0591-N	0591-P	1.50	0591-K	5.33
3/8	3/8	0592-C	0592-N	0592-P	1.70	0592-K	5.46
1/2	3/8	0593-C	0593-N	0593-P	1.98	0593-K	6.78
1/2	1/2	0594-C	0594-N	0594-P	2.30	0594-K	7.19
5/8	1/2	-	-	-	-	-	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/4	-	-	-	-	-	-
1/4	1/8	0588-CG	0588-NG	0588-PG	1.38	0588-KG	3.65
1/4	1/4	0589-CG	0589-NG	0589-PG	1.41	0589-KG	3.83
5/16	1/4	0590-CG	0590-NG	0590-PG	1.55	0590-KG	4.19
3/8	1/4	0591-CG	0591-NG	0591-PG	1.69	0591-KG	5.40
3/8	3/8	0592-CG	0592-NG	0592-PG	1.89	0592-KG	5.53
1/2	3/8	0593-CG	0593-NG	0593-PG	2.20	0593-KG	6.85
1/2	1/2	0594-CG	0594-NG	0594-PG	2.52	0594-KG	7.25
5/8	1/2	0920-CG	0920-NG	0920-PG	3.23	0920-KG	8.32

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/4	-	-	-	-	-	-
1/4	1/8	0588-CGS	0588-NGS	0588-PGS	1.38	0588-KGS	3.65
1/4	1/4	0589-CGS	0589-NGS	0589-PGS	1.41	0589-KGS	3.83
5/16	1/4	0590-CGS	0590-NGS	0590-PGS	1.55	0590-KGS	4.19
3/8	1/4	0591-CGS	0591-NGS	0591-PGS	1.69	0591-KGS	5.40
3/8	3/8	0592-CGS	0592-NGS	0592-PGS	1.89	0592-KGS	5.53
1/2	3/8	0593-CGS	0593-NGS	0593-PGS	2.20	0593-KGS	6.85
1/2	1/2	0594-CGS	0594-NGS	0594-PGS	2.52	0594-KGS	7.25
5/8	1/2	0920-CGS	0920-NGS	0920-PGS	3.23	0920-KGS	8.32

Male Elbow



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/8	0561-C	0561-N	0561-P	.91	0561-K	3.16
1/4	1/8	0562-C	0562-N	0562-P	.93	0562-K	3.36
1/4	1/4	0563-C	0563-N	0563-P	.94	0563-K	3.45
1/4	3/8	0564-C	0564-N	0564-P	1.13	0564-K	5.22
5/16	1/8	0565-C	0565-N	0565-P	1.06	0565-K	3.67
5/16	1/4	0566-C	0566-N	0566-P	1.07	0566-K	3.91
3/8	1/4	0567-C	0567-N	0567-P	1.19	0567-K	5.13
3/8	3/8	0568-C	0568-N	0568-P	1.24	0568-K	5.23
1/2	1/4	0569-C	0569-N	0569-P	1.32	0569-K	6.03
1/2	3/8	0570-C	0570-N	0570-P	1.44	0570-K	6.12
1/2	1/2	0571-C	0571-N	0571-P	1.45	0571-K	6.78
5/8	3/8	-	-	-	-	-	-
5/8	1/2	-	-	-	-	-	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/8	-	-	-	-	-	-
1/4	1/8	0562-CG	0562-NG	0562-PG	1.10	0562-KG	3.50
1/4	1/4	0563-CG	0563-NG	0563-PG	1.11	0563-KG	3.58
1/4	3/8	0564-CG	0564-NG	0564-PG	1.30	0564-KG	5.35
5/16	1/8	0565-CG	0565-NG	0565-PG	1.19	0565-KG	3.81
5/16	1/4	0566-CG	0566-NG	0566-PG	1.20	0566-KG	4.05
3/8	1/4	0567-CG	0567-NG	0567-PG	1.38	0567-KG	5.20
3/8	3/8	0568-CG	0568-NG	0568-PG	1.44	0568-KG	5.29
1/2	1/4	0569-CG	0569-NG	0569-PG	1.54	0569-KG	6.09
1/2	3/8	0570-CG	0570-NG	0570-PG	1.67	0570-KG	6.18
1/2	1/2	0571-CG	0571-NG	0571-PG	1.68	0571-KG	6.85
5/8	3/8	0911-CG	0911-NG	0911-PG	1.96	0911-KG	7.94
5/8	1/2	0912-CG	0912-NG	0912-PG	2.01	0912-KG	7.93

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	1/8	-	-	-	-	-	-
1/4	1/8	0562-CGS	0562-NGS	0562-PGS	1.10	0562-KGS	3.50
1/4	1/4	0563-CGS	0563-NGS	0563-PGS	1.11	0563-KGS	3.58
1/4	3/8	0564-CGS	0564-NGS	0564-PGS	1.30	0564-KGS	5.35
5/16	1/8	0565-CGS	0565-NGS	0565-PGS	1.19	0565-KGS	3.81
5/16	1/4	0566-CGS	0566-NGS	0566-PGS	1.20	0566-KGS	4.05
3/8	1/4	0567-CGS	0567-NGS	0567-PGS	1.38	0567-KGS	5.20
3/8	3/8	0568-CGS	0568-NGS	0568-PGS	1.44	0568-KGS	5.29
1/2	1/4	0569-CGS	0569-NGS	0569-PGS	1.54	0569-KGS	6.09
1/2	3/8	0570-CGS	0570-NGS	0570-PGS	1.67	0570-KGS	6.18
1/2	1/2	0571-CGS	0571-NGS	0571-PGS	1.68	0571-KGS	6.85
5/8	3/8	0911-CGS	0911-NGS	0911-PGS	1.96	0911-KGS	7.94
5/8	1/2	0912-CGS	0912-NGS	0912-PGS	2.01	0912-KGS	7.93

Bulkhead Unions



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	-	0613-C	0613-N	0613-P	1.31	0613-K	5.85
5/16	-	0614-C	0614-N	0614-P	1.42	0614-K	6.37
3/8	-	0615-C	0615-N	0615-P	1.69	0615-K	9.36
1/2	-	0616-C	0616-N	0616-P	2.25	0616-K	10.79
3/4	-	-	-	-	-	-	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	-	0613-CG	0613-NG	0613-PG	1.64	0613-KG	6.12
5/16	-	0614-CG	0614-NG	0614-PG	1.70	0614-KG	6.67
3/8	-	0615-CG	0615-NG	0615-PG	2.06	0615-KG	9.48
1/2	-	0616-CG	0616-NG	0616-PG	2.71	0616-KG	10.91
3/4	-	0933-CG	0933-NG	0933-PG	4.71	0933-KG	16.46

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	-	0613-CGS	0613-NGS	0613-PGS	1.64	0613-KGS	6.12
5/16	-	0614-CGS	0614-NGS	0614-PGS	1.70	0614-KGS	6.67
3/8	-	0615-CGS	0615-NGS	0615-PGS	2.06	0615-KGS	9.48
1/2	-	0616-CGS	0616-NGS	0616-PGS	2.71	0616-KGS	10.91
3/4	-	0933-CGS	0933-NGS	0933-PGS	4.71	0933-KGS	16.46

Female Connector



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0572-C	0572-N	0572-P	.81	0572-K	3.17
1/4	1/4	0573-C	0573-N	0573-P	.84	0573-K	3.45
5/16	1/4	0574-C	0574-N	0574-P	.91	0574-K	3.72
3/8	1/4	0575-C	0575-N	0575-P	1.03	0575-K	5.01
3/8	3/8	0576-C	0576-N	0576-P	1.06	0576-K	5.07
3/8	1/2	0577-C	0577-N	0577-P	1.22	0577-K	5.78
1/2	3/8	0578-C	0578-N	0578-P	1.20	0578-K	5.88
1/2	1/2	0626-C	0626-N	0626-P	1.30	0626-K	6.25
5/8	1/2	-	-	-	-	-	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0572-CG	0572-NG	0572-PG	.97	0572-KG	3.31
1/4	1/4	0573-CG	0573-NG	0573-PG	1.02	0573-KG	3.58
5/16	1/4	0574-CG	0574-NG	0574-PG	1.06	0574-KG	3.88
3/8	1/4	0575-CG	0575-NG	0575-PG	1.20	0575-KG	5.07
3/8	3/8	0576-CG	0576-NG	0576-PG	1.24	0576-KG	5.13
3/8	1/2	0577-CG	0577-NG	0577-PG	1.41	0577-KG	5.84
1/2	3/8	0578-CG	0578-NG	0578-PG	1.44	0578-KG	5.93
1/2	1/2	0626-CG	0626-NG	0626-PG	1.52	0626-KG	6.31
5/8	1/2	0913-CG	0913-NG	0913-PG	2.36	0913-KG	7.39

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0572-CGS	0572-NGS	0572-PGS	.97	0572-KGS	3.31
1/4	1/4	0573-CGS	0573-NGS	0573-PGS	1.02	0573-KGS	3.58
5/16	1/4	0574-CGS	0574-NGS	0574-PGS	1.06	0574-KGS	3.88
3/8	1/4	0575-CGS	0575-NGS	0575-PGS	1.20	0575-KGS	5.07
3/8	3/8	0576-CGS	0576-NGS	0576-PGS	1.24	0576-KGS	5.13
3/8	1/2	0577-CGS	0577-NGS	0577-PGS	1.41	0577-KGS	5.84
1/2	3/8	0578-CGS	0578-NGS	0578-PGS	1.44	0578-KGS	5.93
1/2	1/2	0626-CGS	0626-NGS	0626-PGS	1.52	0626-KGS	6.31
5/8	1/2	0913-CGS	0913-NGS	0913-PGS	2.36	0913-KGS	7.39

Union & Reducing Union Connector



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0579-C	0579-N	0579-P	.88	0579-K	3.92
1/4	-	0580-C	0580-N	0580-P	.88	0580-K	4.27
5/16	-	0581-C	0581-N	0581-P	1.00	0581-K	5.13
5/16	1/4	0582-C	0582-N	0582-P	.94	0582-K	4.47
3/8	-	0583-C	0583-N	0583-P	1.26	0583-K	7.21
3/8	1/4	0584-C	0584-N	0584-P	1.15	0584-K	6.02
1/2	-	0585-C	0585-N	0585-P	1.64	0585-K	9.07
1/2	3/8	0586-C	0586-N	0586-P	1.46	0586-K	8.60
5/8	3/8	-	-	-	-	-	-
5/8	1/2	-	-	-	-	-	-
5/8	-	-	-	-	-	-	-
3/4	-	-	-	-	-	-	-
7/8	5/8	-	-	-	-	-	-
7/8	-	-	-	-	-	--	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	-	-	-	-	-	-
1/4	-	0580-CG	0580-NG	0580-PG	1.22	0580-KG	4.54
5/16	-	0581-CG	0581-NG	0581-PG	1.27	0581-KG	5.43
5/16	1/4	0582-CG	0582-NG	0582-PG	1.26	0582-KG	4.75
3/8	-	0583-CG	0583-NG	0583-PG	1.64	0583-KG	7.33
3/8	1/4	0584-CG	0584-NG	0584-PG	1.51	0584-KG	6.21
1/2	-	0585-CG	0585-NG	0585-PG	2.10	0585-KG	9.20
1/2	3/8	0586-CG	0586-NG	0586-PG	1.88	0586-KG	8.72
5/8	3/8	0914-CG	0914-NG	0914-PG	2.20	0914-KG	9.93
5/8	1/2	0915-CG	0915-NG	0915-PG	2.38	0915-KG	10.54
5/8	-	0916-CG	0916-NG	0916-PG	2.43	0916-KG	11.32
3/4	-	0917-CG	0917-NG	0917-PG	3.91	0917-KG	14.60
7/8	5/8	0918-CG	0918-NG	0918-PG	4.34	0918-KG	15.70
7/8	-	0919-CG	0919-NG	0919-PG	4.53	0919-KG	16.79

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	-	-	-	-	-	-
1/4	-	0580-CGS	0580-NGS	0580-PGS	1.22	0580-KGS	4.54
5/16	-	0581-CGS	0581-NGS	0581-PGS	1.27	0581-KGS	5.43
5/16	1/4	0582-CGS	0582-NGS	0582-PGS	1.26	0582-KGS	4.75
3/8	-	0583-CGS	0583-NGS	0583-PGS	1.64	0583-KGS	7.33
3/8	1/4	0584-CGS	0584-NGS	0584-PGS	1.51	0584-KGS	6.21
1/2	-	0585-CGS	0585-NGS	0585-PGS	2.10	0585-KGS	9.20
1/2	3/8	0586-CGS	0586-NGS	0586-PGS	1.88	0586-KGS	8.72
5/8	3/8	0914-CGS	0914-NGS	0914-PGS	2.20	0914-KGS	9.93
5/8	1/2	0915-CGS	0915-NGS	0915-PGS	2.38	0915-KGS	10.54
5/8	-	0916-CGS	0916-NGS	0916-PGS	2.43	0916-KGS	11.32
3/4	-	0917-CGS	0917-NGS	0917-PGS	3.91	0917-KGS	14.60
7/8	5/8	0918-CGS	0918-NGS	0918-PGS	4.34	0918-KGS	15.70
7/8	-	0919-CGS	0919-NGS	0919-PGS	4.53	0919-KGS	16.79

Union Elbow



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	-	0609-C	0609-N	0609-P	1.23	0609-K	4.27
5/16	-	0610-C	0610-N	0610-P	1.35	0610-K	4.67
3/8	-	0611-C	0611-N	0611-P	1.69	0611-K	7.21
1/2	-	0612-C	0612-N	0612-P	2.08	0612-K	9.31
5/8	-	0929-C	0929-N	0929-P	-	0929-K	-
3/4	-	0930-C	0930-N	0930-P	-	0930-K	-
7/8	-	0931-C	0931-N	0931-P	-	0931-K	-
7/8	5/8	0932-C	0932-N	0932-P	-	0932-K	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	-	0609-CG	0609-NG	0609-PG	1.55	0609-KG	4.54
5/16	-	0610-CG	0610-NG	0610-PG	1.64	0610-KG	4.98
3/8	-	0611-CG	0611-NG	0611-PG	2.06	0611-KG	7.33
1/2	-	0612-CG	0612-NG	0612-PG	2.52	0612-KG	9.44
5/8	-	0929-CG	0929-NG	0929-PG	4.22	0929-KG	11.39
3/4	-	0930-CG	0930-NG	0930-PG	6.20	0930-KG	16.78
7/8	-	0931-CG	0931-NG	0931-PG	7.04	0931-KG	20.74
7/8	5/8	0932-CG	0932-NG	0932-PG	7.12	0932-KG	20.97

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	-	0609-CGS	0609-NGS	0609-PGS	1.55	0609-KGS	4.54
5/16	-	0610-CGS	0610-NGS	0610-PGS	1.64	0610-KGS	4.98
3/8	-	0611-CGS	0611-NGS	0611-PGS	2.06	0611-KGS	7.33
1/2	-	0612-CGS	0612-NGS	0612-PGS	2.52	0612-KGS	9.44
5/8	-	0929-CGS	0929-NGS	0929-PGS	4.22	0929-KGS	11.39
3/4	-	0930-CGS	0930-NGS	0930-PGS	6.20	0930-KGS	16.78
7/8	-	0931-CGS	0931-NGS	0931-PGS	7.04	0931-KGS	20.74
7/8	5/8	0932-CGS	0932-NGS	0932-PGS	7.12	0932-KGS	20.97

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Union Tee



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	-	0556-C	0556-N	0556-P	1.34	0556-K	4.67
1/4	-	0557-C	0557-N	0557-P	1.54	0557-K	5.65
5/16	-	0558-C	0558-N	0558-P	1.71	0558-K	6.32
3/8	-	0559-C	0559-N	0559-P	2.13	0559-K	10.14
1/2	-	0560-C	0560-N	0560-P	2.57	0560-K	12.63
5/8	-	-	-	-	-	-	-
5/8	3/8	-	-	-	-	-	-
3/4	-	-	-	-	-	-	-
7/8	-	-	-	-	-	-	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	-	-	-	-	-	-	-
1/4	-	0557-CG	0557-NG	0557-PG	2.03	0557-KG	6.06
5/16	-	0558-CG	0558-NG	0558-PG	2.13	0558-KG	6.77
3/8	-	0559-CG	0559-NG	0559-PG	2.69	0559-KG	10.32
1/2	-	0560-CG	0560-NG	0560-PG	3.24	0560-KG	12.81
5/8	-	0905-CG	0905-NG	0905-PG	3.52	0905-KG	16.67
5/8	3/8	0906-CG	0906-NG	0906-PG	3.34	0906-KG	15.90
3/4	-	0907-CG	0907-NG	0907-PG	6.03	0907-KG	30.09
7/8	-	0908-CG	0908-NG	0908-PG	6.41	0908-KG	33.39
7/8	5/8	0909-CG	0909-NG	0909-PG	7.13	0909-KG	35.07
7/8	5/8	0910-CG	0910-NG	0910-PG	7.47	0910-KG	38.39

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	-	-	-	-	-	-	-
1/4	-	0557-CGS	0557-NGS	0557-PGS	2.03	0557-KGS	6.06
5/16	-	0558-CGS	0558-NGS	0558-PGS	2.13	0558-KGS	6.77
3/8	-	0559-CGS	0559-NGS	0559-PGS	2.69	0559-KGS	10.32
1/2	-	0560-CGS	0560-NGS	0560-PGS	3.24	0560-KGS	12.81
5/8	-	0905-CGS	0905-NGS	0905-PGS	3.52	0905-KGS	16.67
5/8	3/8	0906-CGS	0906-NGS	0906-PGS	3.34	0906-KGS	15.90
3/4	-	0907-CGS	0907-NGS	0907-PGS	6.03	0907-KGS	30.09
7/8	-	0908-CGS	0908-NGS	0908-PGS	6.41	0908-KGS	33.39
7/8	5/8	0909-CGS	0909-NGS	0909-PGS	7.13	0909-KGS	35.07
7/8	5/8	0910-CGS	0910-NGS	0910-PGS	7.47	0910-KGS	38.39

Male Branch Tee



Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0595-C	0595-N	0595-P	1.26	0595-K	4.55
1/4	1/4	0596-C	0596-N	0596-P	1.54	0596-K	4.74
5/16	1/4	0597-C	0597-N	0597-P	1.74	0597-K	5.21
3/8	1/4	0598-C	0598-N	0598-P	1.80	0598-K	7.93
3/8	3/8	0599-C	0599-N	0599-P	1.86	0599-K	8.06
1/2	3/8	0600-C	0600-N	0600-P	2.38	0600-K	9.97
1/2	1/2	0601-C	0601-N	0601-P	2.43	0601-K	10.63
5/8	1/2	-	-	-	-	-	-
3/4	1/2	-	-	-	-	-	-
3/4	3/4	-	-	-	-	-	-
7/8	3/4	-	-	-	-	-	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0595-CG	0595-NG	0595-PG	1.57	0595-KG	4.82
1/4	1/4	0596-CG	0596-NG	0596-PG	1.88	0596-KG	5.01
5/16	1/4	0597-CG	0597-NG	0597-PG	2.01	0597-KG	5.49
3/8	1/4	0598-CG	0598-NG	0598-PG	2.18	0598-KG	8.05
3/8	3/8	0599-CG	0599-NG	0599-PG	2.24	0599-KG	8.18
1/2	3/8	0600-CG	0600-NG	0600-PG	2.83	0600-KG	10.10
1/2	1/2	0601-CG	0601-NG	0601-PG	2.88	0601-KG	10.77
5/8	1/2	0921-CG	0921-NG	0921-PG	3.29	0921-KG	13.65
3/4	1/2	0922-CG	0922-NG	0922-PG	4.78	0922-KG	20.88
3/4	3/4	0923-CG	0923-NG	0923-PG	4.87	0923-KG	21.10
7/8	3/4	0924-CG	0924-NG	0924-PG	5.23	0924-KG	23.67

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0595-CGS	0595-NGS	0595-PGS	1.57	0595-KGS	4.82
1/4	1/4	0596-CGS	0596-NGS	0596-PGS	1.88	0596-KGS	5.01
5/16	1/4	0597-CGS	0597-NGS	0597-PGS	2.01	0597-KGS	5.49
3/8	1/4	0598-CGS	0598-NGS	0598-PGS	2.18	0598-KGS	8.05
3/8	3/8	0599-CGS	0599-NGS	0599-PGS	2.24	0599-KGS	8.18
1/2	3/8	0600-CGS	0600-NGS	0600-PGS	2.83	0600-KGS	10.10
1/2	1/2	0601-CGS	0601-NGS	0601-PGS	2.88	0601-KGS	10.77
5/8	1/2	0921-CGS	0921-NGS	0921-PGS	3.29	0921-KGS	13.65
3/4	1/2	0922-CGS	0922-NGS	0922-PGS	4.78	0922-KGS	20.88
3/4	3/4	0923-CGS	0923-NGS	0923-PGS	4.87	0923-KGS	21.10
7/8	3/4	0924-CGS	0924-NGS	0924-PGS	5.23	0924-KGS	23.67

Male Run Tee



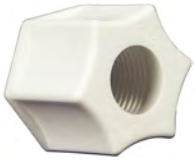
Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0602-C	0602-N	0602-P	1.26	0602-K	4.55
1/4	1/4	0603-C	0603-N	0603-P	1.54	0603-K	4.74
5/16	1/4	0604-C	0604-N	0604-P	1.74	0604-K	5.23
3/8	1/4	0605-C	0605-N	0605-P	1.80	0605-K	7.93
3/8	3/8	0606-C	0606-N	0606-P	1.86	0606-K	8.07
1/2	3/8	0607-C	0607-N	0607-P	2.38	0607-K	9.97
1/2	1/2	0608-C	0608-N	0608-P	2.43	0608-K	10.63
5/8	1/2	0925-C	0925-N	0925-P	-	0925-K	-
3/4	1/2	0926-C	0926-N	0926-P	-	0926-K	-
3/4	3/4	0927-C	0927-N	0927-P	-	0927-K	-
7/8	3/4	0928-C	0928-N	0928-P	-	0928-K	-

Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0602-CG	0602-NG	0602-PG	1.57	0602-KG	4.82
1/4	1/4	0603-CG	0603-NG	0603-PG	1.88	0603-KG	5.01
5/16	1/4	0604-CG	0604-NG	0604-PG	2.01	0604-KG	5.53
3/8	1/4	0605-CG	0605-NG	0605-PG	2.18	0605-KG	8.05
3/8	3/8	0606-CG	0606-NG	0606-PG	2.24	0606-KG	8.19
1/2	3/8	0607-CG	0607-NG	0607-PG	2.83	0607-KG	10.10
1/2	1/2	0608-CG	0608-NG	0608-PG	2.88	0608-KG	10.77
5/8	1/2	0925-CG	0925-NG	0925-PG	3.29	0925-KG	13.65
3/4	1/2	0926-CG	0926-NG	0926-PG	4.82	0926-KG	20.88
3/4	3/4	0927-CG	0927-NG	0927-PG	4.84	0927-KG	21.10
7/8	3/4	0928-CG	0928-NG	0928-PG	5.23	0928-KG	23.67

Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/4	1/8	0602-CGS	0602-NGS	0602-PGS	1.57	0602-KGS	4.82
1/4	1/4	0603-CGS	0603-NGS	0603-PGS	1.88	0603-KGS	5.01
5/16	1/4	0604-CGS	0604-NGS	0604-PGS	2.01	0604-KGS	5.53
3/8	1/4	0605-CGS	0605-NGS	0605-PGS	2.18	0605-KGS	8.05
3/8	3/8	0606-CGS	0606-NGS	0606-PGS	2.24	0606-KGS	8.19
1/2	3/8	0607-CGS	0607-NGS	0607-PGS	2.83	0607-KGS	10.10
1/2	1/2	0608-CGS	0608-NGS	0608-PGS	2.88	0608-KGS	10.77
5/8	1/2	0925-CGS	0925-NGS	0925-PGS	3.29	0925-KGS	13.65
3/4	1/2	0926-CGS	0926-NGS	0926-PGS	4.82	0926-KGS	20.88
3/4	3/4	0927-CGS	0927-NGS	0927-PGS	4.84	0927-KGS	21.10
7/8	3/4	0928-CGS	0928-NGS	0928-PGS	5.23	0928-KGS	23.67

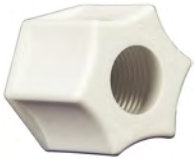
JACO Tube Fittings

Compression Nuts w/Integral Sleeve



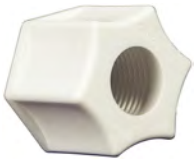
Nom. Tube OD	NPT Size	Std. Ferrule Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	-	0617-C	0617-N	0617-P	.25	0617-K	.90
1/4	-	0618-C	0618-N	0618-P	.28	0618-K	1.10
5/16	-	0619-C	0619-N	0619-P	.36	0619-K	1.24
3/8	-	0620-C	0620-N	0620-P	.39	0620-K	2.21
1/2	-	0621-C	0621-N	0621-P	.48	0621-K	2.67
5/8	-	-	-	-	-	-	-
3/4	-	-	-	-	-	-	-
7/8	-	-	-	-	-	-	-

Compression Nuts w/Plastic Gripper



Nom. Tube OD	NPT Size	Plastic Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	-	-	-	-	-	-	-
1/4	-	0618-CG	0618-NG	0618-PG	.46	0618-KG	1.24
5/16	-	0619-CG	0619-NG	0619-PG	.48	0619-KG	1.38
3/8	-	0620-CG	0620-NG	0620-PG	.58	0620-KG	2.27
1/2	-	0621-CG	0621-NG	0621-PG	.71	0621-KG	2.73
5/8	-	0934-CG	0934-NG	0934-PG	.79	0934-KG	3.68
3/4	-	0935-CG	0935-NG	0935-PG	1.49	0935-KG	5.16
7/8	-	0936-CG	0936-NG	0936-PG	1.63	0936-KG	5.92

Compression Nuts w/Steel Gripper



Nom. Tube OD	NPT Size	301 Stainless Steel Gripper Nut Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	-	-	-	-	-	-	-
1/4	-	0618-CGS	0618-NGS	0618-PGS	.46	0618-KGS	1.24
5/16	-	0619-CGS	0619-NGS	0619-PGS	.48	0619-KGS	1.38
3/8	-	0620-CGS	0620-NGS	0620-PGS	.58	0620-KGS	2.27
1/2	-	0621-CGS	0621-NGS	0621-PGS	.71	0621-KGS	2.73
5/8	-	0934-CGS	0934-NGS	0934-PGS	.79	0934-KGS	3.68
3/4	-	0935-CGS	0935-NGS	0935-PGS	1.49	0935-KGS	5.16
7/8	-	0936-CGS	0936-NGS	0936-PGS	1.63	0936-KGS	5.92

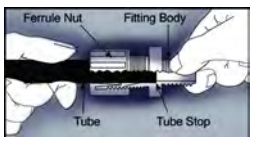
Inserts



Nom. Tube OD	NPT Size	Inserts Part # Celcon	Part # Nylon	Part # PP	Price $	Part # Kynar	Price $
1/8	-	-	-	-	-	--	-
1/4	-	0622-C	0622-N	0622-P	.12	0622-K	.20
5/16	-	0623-C	0623-N	0623-P	.14	0623-K	.21
3/8	-	0624-C	0624-N	0624-P	.16	0624-K	.23
1/2	-	0625-C	0625-N	0625-P	.21	0625-K	.30

INSTALLATION INSTRUCTIONS FOR JACO TUBE FITTINGS

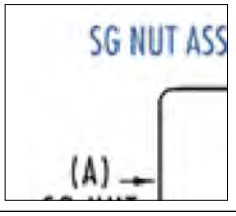
1. Cut the tubing end squarely and remove the internal and exteral burrs.
2. Insert the tubing through the back of the nut all the way through the nut assembly to the tube stop in the fitting body (see illustration). If the tubing does not enter the nut easily, loosen the nut one turn and then insert the tubing all the way to the tube stop in the fitting body.
3. Turn the nut hand tight.
4. Wrench tighten the nut 11/2-2 turns.
5. All nuts must be retightened when the system reaches projected operating temperature.



NOTE: Squeaking sound when tightening nut is normal. For pipe threaded connections, PTFE Tape must be used.

ASSEMBLY INSTRUCTIONS FOR JACO NUTS

Please follow these diagrams in assembling nuts. As shown below, insert gripper (B) into nut (A). Push sleeve (C) into nut assembly.



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John Guest® Tube Fittings

John Guest® Inch Acetal Fittings

The PI Range of inch-size push-in fittings is offered for tube sizes 5/32" O.D. to 5/8" O.D. The fittings are manufactured in gray acetal copolymer with food grade nitrile O-ring, making them especially suitable for applications involving foodstuff and portable liquids. They are also suitable for air and inert gases and can therefore be used on CO_2 lines, pneumatic applications and vacuum.

Working Pressures and Temperatures

		5/32-5/16, 4mm-8mm	3/8-1/2, 10mm-22mm
Air	Max. at -4°F	230 psi	150 psi
Portable Liquids	Max. at +33°F	230 psi	150 psi
and Air	Max. at +68°F	230 psi	150 psi
	Max. at +150°F	150 psi	100 psi

LEAD FREE

NSF NSF 51 NSF 61

MALE CONNECTOR



Tube-to-Pipe

Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	1/8	10	500	PM010421S	1.07	N/A	N/A
5/32	1/4	10	500	PM010422S	1.25	N/A	N/A
3/16	1/8	10	500	PI010621S	1.13	N/A	N/A
1/4	1/8	10	500	PI010821S	1.20	PP010821W	1.13
1/4	1/4	10	400	PI010822S	1.39	PP010822W	1.22
1/4	3/8	10	300/400	PI010823S	1.81	PP010823W	1.69
5/16	1/8	10	400	PM010821S	1.33	N/A	N/A
5/16	1/4	10	400	PM010822S	1.39	N/A	N/A
5/16	3/8	10	300	PM010823S	2.01	N/A	N/A
3/8	1/8	10	250	PI011221S	2.63	N/A	N/A
3/8	1/4	10	250	PI011222S	1.97	PP011222W	1.95
3/8	3/8	10	250	PI011223S	2.27	PP011223W	2.13
3/8	1/2	10	200/250	PI011224S	3.53	PP011224W	3.32
1/2	3/8	10	150	PI011623S	3.05	PP011623W	2.88
1/2	1/2	10	150	PI011624S	3.29	PP011624W	3.11
5/8	3/4	10	100	PI012026S	4.55	N/A	N/A

FLARE MALE CONNECTOR

45° FLARE



Tube-to-Pipe

Tube O.D.	Thread MFL	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	1/4	10	300	PI0108F4S	1.45	N/A	N/A
5/16	5/16	10	500	PM0108F5S	1.58	N/A	N/A
3/8	1/4	10	250	PI0112F4S	2.36	N/A	N/A
3/8	5/16	10	250	PI0112F5S	2.60	N/A	N/A
3/8	3/8	10	300	PI0112F6S	2.67	N/A	N/A
3/8	1/2	10	200	PI0112F8S	3.53	N/A	N/A
1/2	1/2	10	200	PI0116F8S	3.63	N/A	N/A
5/16	1/2	10	400	PM0108C5S	1.58	N/A	N/A
3/8	1/2	10	200	PI0112C5S	2.67	N/A	N/A

UNION TEE



Tube-to-Tube

Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	10	400	PM0204S	2.30	N/A	N/A
3/16	10	400	PI0206S	2.36	N/A	N/A
1/4	10	300	PI0208S	2.60	PP0208W	2.39
5/16	10	200	PM0208S	2.67	PPM0208W	2.58
3/8	10	100	PI0212S	3.07	PP0212W	2.92
1/2	10	50	PI0216S	3.72	PP0216W	3.67
1/4	10	300	N/A	N/A	PP0208W-B*	2.39

UNION ELBOW



Tube-to-Tube

Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	10	500	PM0304S	1.67	N/A	N/A
3/16	10	500	PI0306S	1.67	N/A	N/A
1/4	10	400	PI0308S	2.03	PP0308W	1.89
5/16	10	300	PM0308S	2.36	PPM0308W	2.02
3/8	10	200	PI0312S	3.05	PP0312W	2.88
1/2	10	100	PI0316S	3.63	PP0316W	3.43
1/4	10	400	PI0308S-B*	2.13	PP0308W-B*	1.89

John Guest® Inch Polypropylene Fittings

The PP Range of inch-size push-in fittings is offered for tube sizes 1/4" O.D. to 1/2" O.D. The fittings are manufactured in white polypropylene with food grade EPDM O-rings. They have been developed to satisfy the filtered pure water market and wide range of applications. The PP Range is NOT suitable for compressed air applications. For these situations PI Range is recommended.

Working Pressures and Temperatures

Water	Max.	150 psi at 70°F (10 bar at 20°C)
	Max.	100 psi at 150°F (7 bar at 65°C)
	Min.	34°F/1°C

LEAD FREE

NSF NSF 51 NSF 61

UNION CONNECTOR



Tube-to-Tube

Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	10	500	PM0404S	1.45	N/A	N/A
3/16	10	500	PI0406S	1.58	N/A	N/A
1/4	10	400	PI0408S	1.79	PP0408W	1.66
5/16	10	300	PM0408S	1.91	PPM0408W	1.81
3/8	10	200	PI0412S	2.42	PP0412W	2.25
1/2	10	100	PI0416S	2.80	PP0416W	2.65

STEM ADAPTER



Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	1/8	10	500	PM050421S	0.62	N/A	N/A
5/32	1/4	10	500	PM050422S	0.62	N/A	N/A
3/16	1/8	10	500	PI050621S	0.62	N/A	N/A
1/4	1/8	10	500	PI050821S	0.62	PP050821W	0.59
1/4	1/4	10	500	PI050822S	0.62	PP050822W	0.59
1/4	3/8	10	300	PI050823S	0.91	N/A	N/A
5/16	1/8	10	500	PM050821S	0.62	N/A	N/A
5/16	1/4	10	500	PM050822S	0.62	N/A	N/A
5/16	3/8	10	300	PM050823S	1.05	N/A	N/A
3/8	1/4	10	300	PI051222S	0.77	PP051222W	0.72
3/8	3/8	10	300/200	PI051223S	1.02	PP051223W	0.91
1/2	3/8	10	150/250	PI051623S	1.66	PP051623W	1.49
1/2	1/2	10	150/200	PI051624S	1.66	PP051624W	1.49

REDUCER



Stem O.D.	Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/16	5/32	10	500	PI060605S	1.45	N/A	N/A
5/16	3/16	10	500	PI061006S	1.58	N/A	N/A
5/16	1/4	10	500	PI061008S	1.72	N/A	N/A
3/8	3/16	10	500	PI061206S	1.97	N/A	N/A
3/8	1/4	10	400	PI061208S	1.97	PP061208W	1.85
3/8	5/16	10	400	PI061210S	2.03	PP061210W	1.89
1/2	5/16	10	300	PI061610S	2.42	N/A	N/A
1/2	3/8	10	250	PI061612S	3.74	PP061612W	3.53
5/8	1/4	10	200	N/A	N/A	PP062008W	3.47
5/8	3/8	10	200	N/A	N/A	PP062012W	3.60
5/8	1/2	10	150	N/A	N/A	PP062016W	3.68

ENLARGER



Stem O.D.	Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/16	3/8	10	250	PI131012S	2.39	N/A	N/A
3/8	1/2	10	200	PI131216S	2.43	N/A	N/A

PLUG



Stem O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	10	1000	PM0804S	0.41	N/A	N/A
3/16	10	1000	PI0806S	0.41	N/A	N/A
1/4	10	500	PI0808S	0.51	PP0808W	0.47
5/16	10	500	PM0808S	0.63	PPM0808W	0.55
3/8	10	400	PI0812S	0.82	PP0812W	0.77
1/2	10	300	PI0816S	1.23	PP0816W	1.20

*Note: Blue Collet

John Guest® Tube Fittings

SWIVEL ELBOW



Tube-to-Pipe

Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	1/8	10	400	PM090421S	3.06	N/A	N/A
5/32	1/4	10	300	PM090422S	3.51	N/A	N/A
3/16	1/8	10	200	PI090621S	2.55	N/A	N/A
1/4	1/8	10	200/300	PI090821S	2.92	PP090821W	2.71
1/4	1/4	10	200	PI090822S	2.92	PP090822W	2.71
5/16	1/8	10	200	PM090821S	4.44	N/A	N/A
5/16	1/4	10	200	PM090822S	3.88	N/A	N/A
5/16	3/8	10	200	PM090823S	4.48	N/A	N/A
3/8	1/8	10	200	PI091221S	4.27	N/A	N/A
3/8	1/4	10	100	PI091222S	4.09	PP091222W	3.86
3/8	3/8	10	100	PI091223S	4.28	PP091223W	4.04
1/2	1/4	10	100	PI091622S	5.02	N/A	N/A
1/2	3/8	10	50	PI091623S	5.51	N/A	N/A
1/2	1/2	10	50	PI091624S	5.51	N/A	N/A

SWIVEL BRANCH TEE



Tube-to-Pipe

Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	1/8	10	200	PM100421S	3.81	N/A	N/A
5/32	1/4	10	200	PM100422S	3.81	N/A	N/A
3/16	1/8	10	200	PI100621S	3.90	N/A	N/A
1/4	1/8	10	200	PI100821S	3.47	PP100821W	3.22
1/4	1/4	10	200	PI100822S	3.47	PP100822W	3.22
5/16	1/8	10	100	PM100821S	4.27	N/A	N/A
5/16	1/4	10	100	PM100822S	4.27	N/A	N/A
5/16	3/8	10	100	PM100823S	4.30	N/A	N/A
3/8	1/4	10	100	PI101222S	4.23	PP101222W	3.88
3/8	3/8	10	100	PI101223S	4.43	PP101223W	4.07
1/2	3/8	10	50	PI101623S	5.74	N/A	N/A
1/2	1/2	10	50	PI101624S	5.74	N/A	N/A

SWIVEL MALE RUN TEE



Tube-to-Pipe

Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	1/8	10	400	PM110421S	3.18	N/A	N/A
5/32	1/4	10	400	PM110422S	3.18	N/A	N/A
3/16	1/8	10	200	PI110621S	3.25	N/A	N/A
1/4	1/8	10	200	PI110821S	3.47	PP110821W	3.22
1/4	1/4	10	200	PI110822S	3.47	PP110822W	3.22
5/16	1/8	10	100	PM110821S	3.56	N/A	N/A
5/16	1/4	10	100	PM110822S	4.27	N/A	N/A
5/16	3/8	10	100	PM110823S	3.58	N/A	N/A
3/8	1/4	10	100	PI111222S	4.23	PP111222W	3.88
3/8	3/8	10	100	PI111223S	4.43	PP111223W	4.07
1/2	3/8	10	50	PI111623S	5.74	N/A	N/A
1/2	1/2	10	50	PI111624S	5.74	N/A	N/A

BULKHEAD UNION



Tube O.D.	Hole Dia.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	0.67	10	200	PM1204S	2.80	N/A	N/A
3/16	0.67	10	200	PI1206S	3.20	N/A	N/A
1/4	0.67	10	200	PI1208S	3.42	PP1208W	3.23
5/16	0.83	10	100	PM1208S	4.31	N/A	N/A
3/8	0.83	10	100	PI1212S	4.46	PP1212W	4.21
1/2	1.06	5	50	PI1216S	7.62	PP1216W	6.49

REDUCING BULKHEAD UNION



Tube O.D.	Tube O.D.	Hole Dia.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/2	1/4	0.83	5,000	5,000	NC392-02	6.61	N/A	N/A
3/8	1/4	0.83	10	200/150	PI121208S	4.46	PP121208W	4.03

REDUCING UNION CONNECTOR



Tube-to-Tube

Tube O.D.	Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	3/16	10	200	PI200806S	1.97	N/A	N/A
5/19	5/32	10	300	PM200804S	1.95	N/A	N/A
5/16	3/16	10	200	PI201006S	1.97	N/A	N/A
5/16	1/4	10	200	PI201008S	1.97	N/A	N/A
3/8	3/16	10	200	PI201206S	2.42	N/A	N/A
3/8	1/4	10	200/250	PI201208S	2.43	PP201208W	2.29
3/8	5/16	10	200	PI201210S	2.47	N/A	N/A
1/2	1/4	10	200	PI201608S	3.07	N/A	N/A
1/2	5/16	10	100	PI201610S	3.19	N/A	N/A
1/2	3/8	10	100/150	PI201612S	3.29	PP201612W	3.11

REDUCING ELBOW



Tube-to-Tube

Tube O.D.	Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/16	5/32	10	300	PM210804S	2.47	N/A	N/A
5/16	3/16	10	200	PI211006S	2.47	N/A	N/A
5/16	1/4	10	200/300	PI211008S	2.53	PP211008W	2.44
3/8	3/16	10	200	PI211206S	3.29	N/A	N/A
3/8	1/4	10	200	PI211208S	3.39	PP211208W	3.18
3/8	5/16	10	200	PI211210S	3.39	N/A	N/A
1/2	5/16	10	100	PI211610S	4.00	N/A	N/A
1/2	3/8	10	100/150	PI211612S	4.00	PP211612W	3.93

PLUG IN ELBOW



Stem O.D.	Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/32	5/32	10	500	PM220404S	1.83	N/A	N/A
3/16	3/16	10	500	PI220606S	1.83	N/A	N/A
1/4	1/4	10	500	PI220808S	1.83	PP220808W	1.71
5/16	5/16	10	400	PM220808S	2.32	PPM220808W	2.33
3/8	3/16	10	300	PI221206S	2.46	N/A	N/A
3/8	1/4	10	300	PI221208S	2.46	PP221208W	2.33
3/8	5/16	10	200	PI221210S	2.46	N/A	N/A
3/8	3/8	10	200	PI221212S	3.12	PP221212W	2.88
1/2	1/2	10	100	PI221616S	3.73	PP221616W	3.53
3/8	3/8	10	200	N/A	N/A	PP221212W-B*	2.89

TWO-WAY DIVIDER



Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	10	150	PI2308S	2.90	N/A	N/A
5/16	10	100	PM2308S	2.93	N/A	N/A
3/8	10	100/150	PI2312S	3.26	PP2312W	3.15
1/2	5	100	PI2316S	5.56	N/A	N/A

UNEQUAL TWO-WAY DIVIDER



T/OD Inlet	T/Oc-tuplet	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	5/16	10	100	PI241210S	3.10	N/A	N/A
3/8	1/4	10	200	N/A	N/A	PP241208W	3.46

TUBE TO HOSE STEM



Stem O.D.	Hose I.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	3/16	10	500	PI250806S	1.14	N/A	N/A
1/4	1/4	10	500	PI250808S	1.14	N/A	N/A
1/4	5/16	10	500	PI250810S	1.04	N/A	N/A
5/16	3/16	10	500	PI251006S	1.14	N/A	N/A
5/16	1/4	10	500	PI251008S	1.28	N/A	N/A
5/16	5/16	10	500	PM250808S	1.28	N/A	N/A
5/16	3/8	10	400	PI251012S	1.62	N/A	N/A
3/8	1/4	10	400	PI251208S	1.66	N/A	N/A
3/8	5/16	10	400	PI251210S	1.66	N/A	N/A
3/8	3/8	10	400	PI251212S	1.79	PP251212W	1.68
3/8	1/2	10	300	PI251216S	2.42	PP251216W	2.28
1/2	3/8	10	300	PI251612S	1.93	PP251612W	1.82
1/2	1/2	10	200/250	PI251616S	2.51	PP251616W	2.26

TUBE TO HOSE STEM LONG VERSION



Stem O.D.	Hose I.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/16	3/8	10	400	PI251012SL	1.73	N/A	N/A
3/8	3/8	10	400	PI251212SL	1.82	N/A	N/A

TUBE TO HOSE ELBOW



Stem O.D.	Hose I.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	1/4	10	500	PI290808S	1.53	N/A	N/A
1/4	5/16	10	500	PI290810S	1.80	N/A	N/A
5/16	1/4	10	500	PI291008S	1.58	N/A	N/A
5/16	5/16	10	500	PM290808S	1.80	N/A	N/A
3/8	1/4	10	400	PI291208S	1.93	N/A	N/A
3/8	5/16	10	400	PI291210S	2.26	N/A	N/A

*Note: Blue Collet

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John Guest® Tube Fittings

REDUCING TEE



Tube-to-Tube

T/OD End	T/OD End	T/OD Branch	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	3/8	1/4	10	150	PI301208S	4.13	N/A	N/A
1/2	1/2	3/8	10	50	PI301612S	4.32	N/A	N/A
1/4	1/4	3/8	10	150	N/A	N/A	PP30080812W	3.20
3/8	1/4	3/8	10	150	N/A	N/A	PP30120812W	3.10
3/8	3/8	1/4	10	150	N/A	N/A	PP30121208W	3.09
1/2	1/2	3/8	10	50	N/A	N/A	PP301612W	4.08

FIXED TEE ADAPTER



T/OD End	T/OD End	NPTF Branch	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	3/8	3/8	10	150	N/A	N/A	PP641223W	3.05

STACKABLE TEE CONNECTOR



T/OD Inlet	Stem O.D.	T/OD Outlet	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	3/8	3/8	10	150	N/A	N/A	PP531212W	2.57

FAUCET CONNECTOR



Tube O.D.	Thread UNS	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	7/16-24	10	250/400	CI3208U7S	2.29	PP3208U7W	2.45
5/16	7/16-24	10	300	CI3210U7S	2.73	N/A	N/A
3/8	7/16-24	10	200/300	CI3212U7S	2.55	PP3212U7W	2.53

NOT Suitable For Air

FEMALE CONNECTOR



Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	1/8	10	400	N/A	N/A	PP450821W	3.70
1/4	1/4	10	400	PI450822S	2.81	PP450822W	3.81
3/8	1/4	10	250	PI451222S	3.23	PP451222W	3.93
3/8	3/8	10	150	N/A	N/A	PP451223W	5.17

FEMALE CONNECTOR



Tube O.D.	Thread UN	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/16	1/2-16	10	200	PM4508C5S	4.03	N/A	N/A
3/8	1/2-16	10	200	PI4512C5S	4.21	N/A	N/A
1/2	1/2-16	10	200	PI4516C5S	4.98	N/A	N/A

FEMALE FLARE CONNECTOR

45° FLARE



Tube O.D.	Thread FFL	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
5/16	1/4	10	300	PM4508F4S	2.83	N/A	N/A
3/8	1/4	10	250	PI4512F4S	2.52	N/A	N/A
3/8	3/8	10	200	PI4512F6S	3.07	N/A	N/A

END STOP



Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	10	500	PI4608S	1.20	N/A	N/A
3/8	10	500	PI4612S	1.49	N/A	N/A

CROSS



Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	10	100	PI4712S	5.66	N/A	N/A

FIXED ELBOW



Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/4	1/8	10	500	PI480821S	1.79	PP480821W	1.67
1/4	1/4	10	400	PI480822S	2.03	PP480822W	1.93
1/4	3/8	10	300	PI480823S	2.43	PP480823W	2.29
5/16	1/4	10	300	PI481022S	2.37	N/A	N/A
5/16	3/8	10	300	PI481023S	3.21	N/A	N/A
3/8	1/4	10	200	PI481222S	3.05	PP481222W	2.53
3/8	3/8	10	200	PI481223S	3.35	PP481223W	2.60
5/8	1/2	10	100	PI482024S	4.70	N/A	N/A

THREE WAY DIVIDER



T/OD Inlet	T/OD Outlet	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/2	3/8	10	50	PI491612S	7.43	N/A	N/A
1/2	3/8	10	50	PI491212S-R	7.21	N/A	N/A
1/2	1/2	10	50	PI491616S	7.92	N/A	N/A
3/8	1/4	10	150	N/A	N/A	PP491208W	4.51

DISPENSING VALVE ELBOW



Tube O.D.	Stem O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	3/8	10	250	NC356-02	3.93	N/A	N/A

DISPENSING VALVE STEM



Stem O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	10	500	NC730-02	2.29	N/A	N/A

OFFSET CONNECTOR



Tube O.D.	Tube O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
1/2	5/16	10	200	NC641	5.66	N/A	N/A

U-BEND



Stem O.D.	Bag Qty.	Box Qty.	Acetal #	Price $	Polypropylene #	Price $
3/8	10	100	PIUB12S	6.81	N/A	N/A
1/2	10	50	PIUB16S	7.92	N/A	N/A

TUBE INSERT



(To be used with soft durometer tubing.)

Tube I.D.	Tube O.D.	Bag Qty.	Box Qty.	Part #	Price $
1/4	5/16	10	1000	TS1250S	0.18
5/16	3/8	100	2500	TS1312S	0.21
3/8	1/2	10	500	TS1375S	0.22
	10	50	1000	TSM10N	0.50
	15	50	500	TSM15N	0.55
	22	25	250	TSM22N	0.62

LOCKING CLIP



Tube O.D.	Bag Qty.	Box Qty.	Part #	Price $
1/4	100	5000	PIC1808R	0.17
3/8	100	1000	PIC1812R	0.19
1/2	100	2000	PIC1816R	0.19
8mm	100	8000	PMC1808R	0.20

COLLET COVER



Tube O.D.	Bag Qty.	Box Qty.	Part #	Price $
5/32	10	1000	PM1904S	0.23
3/16	10	1000	PI1906S	0.23
1/4	10	1000	PI1908S	0.25
5/16	10	1000	PM1908S	0.28
3/8	10	500	PI1912S	0.33
1/2	10	1000	PI1916S	0.35

Colors Available
Suffix indicates color.
S = Gray
B = Blue
E = Black
G = Green
R = Red
Y = Yellow

The slip-on Collet Covers shown in the illustration prevents accidental removal of or tampering with tubing. Tubing can be inserted with the Collet Cover already attached to the fittings or the cover can slide into position afterwards. The cover is easily removed when required and comes in a variety of colors for color coding. Please indicate by suffix, color required or gray will be supplied.

Barbed Tube Fittings

Polypropylene (Black) and Nylon (Natural) Hose Fittings

PP: made from glass reinforced resin, rated at 150 PSI @ 72°F. Excellent chemical resistance to a broad range of chemicals.
Note: Do not use glass filled resin with Hydrofluoric acids.

Nylon: made from virgin resin, rated at 150 PSI @ 72°F. Good chemical resistance to a fairly broad range of chemicals, including diesel fuel and gasoline.

Note:
Black PP pictured
Nat. Nylon available.

Hose Barb x MPT



Nom. Tube ID	NPT Pipe Size	Black PP	Price $ Each	Nat. Nylon	Price $ Each
3/16	1/8	-	-	0627	.29
1/4	1/8	0628	.37	0629	.30
3/8	1/8	0630	.37	0631	.32
1/4	1/4	0632	.36	0633	.33
3/8	1/4	0634	.35	0635	.34
1/2	1/4	0636	.37	0637	.34
1/4	3/8	0638	.37	0639	.33
3/8	3/8	0640	.37	0641	.35
1/2	3/8	0642	.39	0643	.36
1/4	1/2	0644	.38	0645	.37
3/8	1/2	0646	.40	0647	.39
1/2	1/2	0648	.38	0649	.40
5/8	1/2	0650	.40	0651	.39
3/4	1/2	0652	.40	0653	.40
3/8	3/4	0654	.46	0655	.42
1/2	3/4	0656	.47	0657	.44
5/8	3/4	0658	.46	0659	.44
3/4	3/4	0660	.47	0661	.45
1	3/4	0662	.56	0663	.63
3/4	1	0664	.64	0665	.63
1	1	0666	.63	0667	.71
1 1/4	1	0668	.92	0669	1.11
3/4	1 1/4	0670	.96	0671	1.24
1	1 1/4	0672	.94	0673	1.24
1 1/4	1 1/4	0674	1.07	0675	1.33
1 1/2	1 1/4	0676	1.18	0677	1.43
1 1/4	1 1/2	0678	1.11	0679	1.33
1 1/2	1 1/2	0680	1.18	0681	1.43
2	2	0682	2.17	0683	2.61

MGHT x Hose Barb



1/4	3/4	-	-	0684	.44
3/8	3/4	0685	.46	0686	.47
1/2	3/4	0687	.47	0688	.46
5/8	3/4	0689	.43	0690	.42
3/4	3/4	0691	.43	0692	.44

Adaptor - MGHT x MPT



3/8	3/4	0693	.51	0694	.45
1/2	3/4	0695	.48	0696	.46
3/4	3/4	0697	.51	0698	.45

Adaptor - MGHT x FPT



3/4	1/4	0984	1.38	0983	1.53
3/4	1/2	0986	1.38	0985	1.48
3/4	3/4	0988	1.38	0987	1.43

Adaptor - FGHT x MPT



3/4	3/4	1593	1.43	1592	1.43

Adaptor - FGHT x MGHT



3/4	3/4	1595	1.38	1594	1.43

Coupling - FGHT x FPT



3/4	1/2	1597	1.38	1596	1.43
3/4	3/4	1599	1.43	1598	1.43

Note:
Black PP pictured
Nat. Nylon available.

Elbow - Hose Barb x Male Taper Pipe



Nom. Tube ID	NPT Pipe Size	Black PP	Price $ Each	Nat. Nylon	Price $ Each
1/4	1/4	0940	.51	0738	.52
3/8	1/4	0739	.53	0740	.54
1/2	1/4	0741	.63	0742	.57
1/4	3/8	0743	.55	0744	.58
3/8	3/8	0745	.63	0746	.59
1/2	3/8	0747	.58	0748	.60
1/4	1/2	0749	.63	0750	.62
3/8	1/2	0751	.61	0752	.62
1/2	1/2	0753	.62	0754	.63
5/8	1/2	0755	.64	0756	.69
3/4	1/2	0757	.65	0758	.71
3/8	3/4	0759	.75	0760	.75
1/2	3/4	0761	.75	0762	.75
5/8	3/4	0763	.78	0764	.75
3/4	3/4	0765	.80	0766	.77
1	3/4	0767	1.31	0768	1.40
1/2	1	0769	1.24	0770	1.29
3/4	1	0771	1.33	0772	1.29
1	1	0773	1.74	0774	1.40
3/4	1 1/4	0775	2.94	0776	-
1	1 1/4	0777	2.99	0778	2.47
1 1/4	1 1/4	0779	2.12	0780	2.30
1 1/2	1 1/4	0781	6.97	0782	-
1 1/2	1 1/2	0783	4.00	0784	4.23
2	2	0785	4.23	0786	5.01

Street Elbow 90 Degree MPT x FPT



1/4	1/4	1585	1.33	0711	1.53
1/2	1/2	1586	1.69	0712	1.84
3/4	3/4	1587	2.18	0713	2.32
1	1	1588	3.54	0714	-
1 1/4	1 1/4	1589	5.34	0715	-
1 1/2	1 1/2	1590	6.03	0716	6.12
2	2	1591	6.90	0717	7.77

Elbow 90 Degree FPT x FPT



1/2	1/2	0989	2.21	0990	2.58
3/4	3/4	0991	2.71	0992	2.85

Street Elbow 45 Degree MPT x FPT



3/4	3/4	0993	1.07	0994	2.13

Hose Mender Barb to Barb



1/4 x 1/4 Hex	0814	.35	0815	.31
3/8 x 3/8 Knurl	0816	.36	0817	.33
1/2 x 3/8 Hex	0818	.41	-	-
1/2 x 1/2 Knurl	0819	.37	0820	.35
1/2 x 5/8 Hex	0821	.43	-	-
5/8 x 5/8 Knurl	0822	.40	0823	.42
3/4 x 3/4 Knurl	0824	.47	0825	.55
1 x 1 Knurl	0826	.63	0827	.73

Nipple - MPT x MPT



MPT Length					
1/4 x 1/4	1.27	0828	.36	0829	.34
3/8 x 3/8	1.26	0830	.38	0831	.35
1/2 x1/2	1.46	0832	.40	0833	.37
3/4 x 3/4	1.48	0834	.50	0835	.45
1 x 1	1.87	0836	.63	0837	.74
1 1/4x1 1/4	2.08	0838	1.10	0839	1.29
1 1/2x1 1/2	3.60	0840	1.98	0841	2.42
2 x 2	3.46	0842	2.47	0843	3.04
Reducing Nipples					
1/2 x 3/8	1.37	0844	.38	0845	.39
3/4 x 3/8	1.34	0846	.54	0847	.44
3/4 x 1/2	1.49	0848	.50	0849	.43

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770-941-3030 · 1-800-849-3030 · www.alscoplastics.com · 010118

Barbed Tube Fittings

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Note:
Black PP pictured
Nat. Nylon available.

Coupling - FPT x FPT



Description	FPT Pipe Size	FPT Pipe Size	Black PP	Price $ Each	Nat. Nylon	Price $ Each
	1/8	1/8	1018	-	1019	-
	1/4	1/8	1020	-	1021	-
	1/4	1/4	1022	-	1023	-
	3/8	1/8	1024	-	1025	-
	3/8	1/4	1026	-	1027	-
	3/8	3/8	1028	-	1029	-
	1/2	3/8	1030	-	1031	-
	1/2	1/2	1032	.94	1033	1.04
	3/4	3/8	1034	-	1035	-
	3/4	1/2	1036	-	1037	-
	3/4	3/4	1038	.98	1039	1.07
	1	1	1040	1.11	1041	1.35
	1 1/4	1 1/4	1042	1.27	1043	1.55
	1 1/2	1 1/2	1044	1.42	1045	1.78
	2	2	1046	1.57	1047	1.97

Note:
Black PP pictured
Nat. Nylon available.

FPT x Hose Barb



Description	Nom. Tube ID	NPT Pipe Size	Black PP	Price $ Each	Nat. Nylon	Price $ Each
	1/4	1/8	0100	.76	0101	.76
	3/8	1/8	0102	.76	0103	.76
	1/4	1/4	0104	.79	0105	.76
	3/8	1/4	0106	.79	0107	.62
	1/2	1/4	0108	.76	0109	.76
	5/8	1/4	0110	.78	0111	.80
	1/4	3/8	0112	.78	0113	.80
	3/8	3/8	0114	.82	0115	.83
	1/2	3/8	0116	.82	0117	.80
	5/8	3/8	0118	.78	0119	.80
	3/4	3/8	0120	.80	0121	.85
	1/4	1/2	0122	.84	0123	.84
	3/8	1/2	0124	.84	0125	.86
	1/2	1/2	0126	.63	0127	.59
	5/8	1/2	0128	.82	0129	.86
	3/4	1/2	0130	.85	0131	.86
	1/4	3/4	0132	.98	0133	.98
	3/8	3/4	0134	.93	0135	.97
	1/2	3/4	0136	.98	0137	1.04
	5/8	3/4	0138	.66	0139	.67
	3/4	3/4	0140	.70	0141	.63

Elbow Adapter and Elbow Reducer Hose Barb x Hose Barb



Hose	Hose				
1/4	1/4	0142	.52	0143	.56
3/8	3/8	0144	.54	0145	.56
1/2	1/2	0146	.54	0147	.58
5/8	5/8	0148	.54	0149	.60
3/4	3/4	0150	.68	0151	.69
1	1	0152	.52	0153	1.33
1/4	3/8	0154	.80	0155	.87
1/4	1/2	0156	.63	0157	.55
3/8	1/2	0158	.66	0159	.55
5/8	3/4	0160	.86	0161	.92

Reducer Bushing



3/8	1/8	0718	.72	0719	.69
3/8	1/4	0720	.69	0721	.69
1/2	1/4	0722	.83	0723	.75
1/2	3/8	0724	1.24	0725	1.24
3/4	1/8	0726	.95	0727	.98
3/4	1/4	0728	.91	0729	.83
3/4	3/8	0730	.91	0731	.83
3/4	1/2	0732	.83	0733	.83
1	1/2	0734	1.15	0735	1.56
1	3/4	0736	1.10	0737	1.47

Note:
Black PP pictured
Nat. Nylon available.

Elbow - Hose Barb x FPT



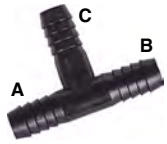
Description	Nom. Tube ID	NPT Pipe Size	Black PP	Price $ Each	Nat. Nylon	Price $ Each
	3/16	1/8	0164	.82	0165	.81
	1/4	1/8	0166	.85	0167	.82
	3/8	1/8	0168	.82	0169	.81
	3/16	1/4	0170	.81	0171	.86
	1/4	1/4	0172	.82	0173	.86
	3/8	1/4	0174	.83	0175	.85
	1/4	3/8	0176	.83	0177	.86
	3/8	3/8	0178	.86	0179	.86
	1/2	3/8	0180	.82	0181	.81
	1/4	1/2	0182	.88	0183	.91
	3/8	1/2	0184	.86	0185	.91
	1/2	1/2	0186	.68	0187	.71
	5/8	1/2	0188	.89	0189	.91
	3/4	1/2	0190	.92	0191	.97
	3/8	3/4	0192	.92	0193	1.00
	1/2	3/4	0194	.74	0195	.76
	5/8	3/4	0196	.92	0197	1.00
	3/4	3/4	0198	.78	0199	.82

Tee - FPT



1/2x1/2x1/2	0787	2.81	0788	3.27
3/4x3/4x3/4	0789	3.33	0790	-
1x1x1	0791	4.81	0792	6.44
1 1/4x1 1/4x1 1/4	0793	6.65	0794	8.28
1 1/2x1 1/2x1 1/2	0795	7.95	0796	8.05

Tee - Barb x Barb x Barb



A B C				
1/4 x 1/4 x 1/4	0799	.66	0800	.57
3/8 x 3/8 x 3/8	0801	.60	0802	.60
3/8 x 1/2 x 1/2	0803	1.05	0804	.62
1/2 x 1/2 x 1/2	0805	.61	0806	.63
5/8 x 5/8 x 5/8	0807	.75	0808	.64
3/4 x 1/2 x 1/2	0809	1.78	0810	1.83
3/4 x 3/4 x 3/4	0811	.75	0812	.73
1 x 1 x 1	0813	2.18	0941	1.13

Tee - Barb x Barb x MPT



A B C				
1/4 x 1/4 x 1/8	0200	.39	0201	.36
1/4 x 1/4 x 1/4	0202	.37	0203	.37
3/8 x 3/8 x 1/4	0204	.35	0205	.39
1/2 x 1/2 x 1/4	0206	.32	0207	.33
1/4 x 1/4 x 3/8	0208	.34	0209	.39
3/8 x 3/8 x 3/8	0210	.36	0211	.40
1/2 x 1/2 x 3/8	0212	.37	0213	.40
3/8 x 3/8 x 1/2	0214	.38	0215	.42
1/2 x 1/2 x 1/2	0216	.40	0217	.42
5/8 x 5/8 x 1/2	0218	.42	0219	.40
3/4 x 3/4 x 1/2	0220	.44	0221	.52
3/8 x 3/8 x 3/4	0222	.51	0223	.57
1/2 x 1/2 x 3/4	0224	.63	0225	.63
5/8 x 5/8 x 3/4	0226	.51	0227	.61
3/4 x 3/4 x 3/4	0228	.66	0229	.50

Tee - Hose Barb x FPT



3/4x3/4x3/4	0995	2.07	0996	2.61
1-1/4x1-1/4x3/4	0997	2.71	0998	2.90

Hex Head Pipe Plug



MPT	FPT				
1/8	-	0699	.32	0700	.30
1/4	-	0701	.35	0702	.31
3/8	-	0703	.37	0704	.35
1/2	-	0705	.39	0706	.37
3/4	-	0707	.41	0708	.40
1	-	0709	.55	0710	.56

S-Lok® Single Ferrule 316 Stainless Steel Tube Fittings



S-Lok® Single Ferrule Tube Fittings have been designed specifically for the many demanding applications such as chemical, petroleum, power generating, pulp and paper, and various types of manufacturing industries. They provide a highly reliable, leak proof and torque free seal on all tubing connections. S-Lok® Single Ferrule Tube Fittings are commonly used on instrumentation, process and control systems where high quality tube fittings are required.

Features:
- Corrosion resistant 316 Stainless Steel
- Nut is black Molybdenum Disulfide coated
- Single ferrule swaging action

Sizes Available: Fractional: 1/16" - 2", Metric 2mm - 38mm

Materials Available: Stainless Steel 316, Carbon Steel, Brass and Alloy 400

Tube to Tube Union



Union

Tube O.D.	Mfg Part #	Price $
1/4	SUO-4-S6	9.64
3/8	SUO-6-S6	13.78
1/2	SUO-8-S6	20.51
5/8	SUO-10-S6	26.72



Reducing Union

Tube O.D.	Mfg Part #	Price $
3/8 x 1/4	SURO-6-4-S6	13.78
1/2 x 1/4	SURO-8-4-S6	21.34
1/2 x 3/8	SURO-5-6-S6	21.24
5/8 x 1/2	SURO-10-8-S6	27.23



Bulkhead Union

Tube O.D.	Mfg Part #	Price $
1/4	SUBO-4-S6	14.40
3/8	SUBO-6-S6	20.71
1/2	SUBO-8-S6	29.82
5/8	SUBO-10-S6	42.55



Union 90° Elbow

Tube O.D.	Mfg Part #	Price $
1/4	SLO-4-S6	13.98
3/8	SLO-6-S6	17.09
1/2	SLO-8-S6	28.17
5/8	SLO-10-S6	31.59



Union Tee

Tube O.D.	Mfg Part #	Price $
1/4	STO-4-S6	19.68
3/8	STO-6-S6	25.38
1/2	STO-8-S6	39.14
5/8	STO-10-S6	43.90

Tube to Male Pipe



Male Connector

Tube O.D.	Pipe NPT	Mfg Part #	Price $
1/4	1/4	SMCO-4-4N-S6	6.21
1/4	3/8	SMCO-4-6N-S6	7.98
1/4	1/2	SMCO-4-8N-S6	10.77
3/8	1/4	SMCO-6-4N-S6	8.59
3/8	3/8	SMCO-6-6N-S6	9.64
3/8	1/2	SMCO-6-8N-S6	11.60
1/2	1/4	SMCO-8-4N-S6	12.43
1/2	3/8	SMCO-8-6N-S6	12.95
1/2	1/2	SMCO-8-8N-S6	14.29
1/2	3/4	SMCO-8-12N-S6	18.44
5/8	3/8	SMCO-10-6N-S6	14.81
5/8	1/2	SMCO-10-8N-S6	15.95
5/8	3/4	SMCO-10-12N-S6	19.78



Male Elbow

Tube O.D.	Pipe NPT	Mfg Part #	Price $
1/4	1/4	SLMO-4-4N-S6	11.90
1/4	3/8	SLMO-4-6N-S6	16.67
1/4	1/2	SLMO-4-8N-S6	19016
3/8	1/4	SLMO-6-4N-S6	14.18
3/8	3/8	SLMO-6-6N-S6	17.81
3/8	1/2	SLMO-6-8N-S6	22.89
1/2	1/4	SLMO-8-4N-S6	20.92
1/2	3/8	SLMO-8-6N-S6	20.92
1/2	1/2	SLMO-8-8N-S6	26.10
5/8	3/8	SLMO-10-6N-S6	27.45
5/8	1/2	SLMO-10-8N-S6	28.79

Tube to Female Pipe



Female Connector

Tube O.D.	Pipe NPT	Mfg Part #	Price $
1/4	1/4	SCFO-4-4N-S6	10.15
1/4	3/8	SCFO-4-6N-S6	12.43
1/4	1/2	SCFO-4-8N-S6	13.88
3/8	1/4	SCFO-6-4N-S6	10.56
3/8	3/8	SCFO-6-6N-S6	13.78
3/8	1/2	SCFO-6-8N-S6	18.02
1/2	1/4	SCFO-8-4N-S6	14.40
1/2	3/8	SCFO-8-6N-S6	14.70
1/2	1/2	SCFO-8-8N-S6	20.19
1/2	3/4	SCFO-8-12N-S6	23.92
5/8	3/8	SCFO-10-6N-S6	23.31
5/8	1/2	SCFO-10-8N-S6	21.43



Female Elbow

Tube O.D.	Pipe NPT	Mfg Part #	Price $
1/4	1/4	SLFO-4-4N-S6	16.78
1/4	3/8	SLFO-4-6N-S6	24.23
1/4	1/2	SLFO-4-8N-S6	27.64
3/8	1/4	SLFO-6-4N-S6	17.50
3/8	3/8	SLFO-6-6N-S6	19.37
3/8	1/2	SLFO-6-8N-S6	28.37
1/2	1/4	SLFO-8-4N-S6	22.16
1/2	3/8	SLFO-8-6N-S6	23.31
1/2	1/2	SLFO-8-8N-S6	31.48
5/8	3/8	SLFO-10-6N-S6	29.41
5/8	1/2	SLFO-10-8N-S6	33.86

Tube to Weld End



Male Pipe Weld Connector

Tube O.D.	Pipe Nom.	Mfg Part #	Price $
1/4	1/4	SCWO-4-4P-S6	6.74
3/8	3/8	SCWO-6-6P-S6	10.66
1/2	1/2	SCWO-8-8P-S6	14.40
5/8	1/2	SCWO-10-8P-S6	16.98



Male Pipe Weld Elbow

Tube O.D.	Pipe Nom.	Mfg Part #	Price $
1/4	1/4	SLWO-4-4P-S6	13.36
3/8	1/4	SLWO-6-4P-S6	16.15
1/2	1/2	SLWO-8-8P-S6	29.82

Spare Parts



Nut

Tube O.D.	Mfg Part #	Price $
1/4	SN0-4-NA-S6	1.69
3/8	SN0-6-NA-S6	2.38
1/2	SN0-8-NA-S6	3.75



Ferrule

Tube O.D.	Mfg Part #	Price $
1/4	SFO-4-S6	1.84
3/8	SFO-6-S6	2.27
1/2	SFO-8-S6	3.23
5/8	SFO-10-S6	3.83

S-Lok® SBV10 Series 316 Stainless Steel Ball Valves



Features:

- Compact design with hexagon bar-stock for high integrity.
- Working pressure up to 1000 psig (69bar) at 100°F (38°C).
- Low torque quarter turn actuation.
- Size range of from 1/4″ to 1″tubing and piping.
- Various end connections: reliable S-LOK, NPT and ISO male and female.
- Butterfly handle is available as option.

SBV10 Series 316 Stainless Steel Ball Valves

Connection	Size (in.)	Cv	Orifice (mm)	Part #	Price $
FPT x FPT	1/4	1.35	5.0	SBV-F-4N-S6	18.74
FPT x FPT	3/8	2.60	7.5	SBV-F-6N-S6	22.49
FPT x FPT	1/2	9.25	9.0	SBV-F-8N-S6	32.14
Tube x Tube	1/4	1.25	5.0	SBV-S-4T-S6	40.16
Tube x Tube	3/8	2.50	7.5	SBV-S-6T-S6	48.20
Tube x Tube	1/2	9.25	9.0	SBV-S-8T-S6	61.99
Tube x Tube	3/4	12.65	12.5	SBV-S-12T-S6	89.30
Tube x Tube	1	17.35	16.0	SBV-S-16T-S6	138.95

S-Lok® SBV30 Series 316 Stainless Steel Ball Valves



SBV30 Series 316 Stainless Steel Ball Valves

Connection	Size (in.)	Cv	Orifice (mm)	Part #	Price $
FPT x FPT	1/4	0.90	4.8	SBV2-F-4N-S6	72.23
FPT x FPT	3/8	2.60	7.1	SBV3-F-6N-S6	112.63
FPT x FPT	1/2	6.30	10.3	SBV4-F-8N-S6	172.94
Tube x Tube	1/4	2.40	4.8	SBV2-S-4T-S6	75.86
Tube x Tube	3/8	6.00	7.1	SBV3-S-6T-S6	118.60
Tube x Tube	1/2	12.00	10.3	SBV4-S-8T-S6	182.03
Tube x Tube	3/4	6.40	10.3	SBV4-S-12T-S6	187.19

Features:

- Handle with Arrow indicates flow direction and allows quick operation to open and close.
- Panel Mounting Nut allows easy installation.
- Variety of End Connections include fractional/metric S-LOK tube fittings, NPT female, ISO female threads.
- One-piece body reduces the number of potential leak points.
- Orifice is optimized for minimum pressure drop.
- Packing Bolt allows easy packing adjustment with valve in-line.
- PTFE Packing is supported by top and bottom glands.
- Encapsulating Ball Seats virtually allow no dead volume and are uniformly forced to form tight seals against ball and body cavity.
- Support rings and discs retain the capsule packing and prevent cold flow.
- Integral Ball-Stem is machined from one piece bar stock and is best suited to encapsulate ball seats.
- Pressure rating up to 3000 psig (206bar) at 70°F (21°C).
- Temperature rating from 50°F (10°C) to 150°F (65°C) with standard PTFE seat and packing.
- Choice of materials: Standard SS316 and available in Alloy 400 and Brass.
- Vent to atmosphere available.
- Every valve is 100% factory tested with Nitrogen at 1000 psi (69bar).

Available in 3-Way and 5-Way configurations. Contact sales department 1-800-849-3030.

304 Stainless Steel Tubing



304 stainless steel is a low carbon austenitic alloy. By keeping the carbon at .03% max, it minimizes carbide precipitation during welding. Applications for 304 is shafts, valve bodies, valve trim and food industry applications. 304 stainless is resistant to atmospheric corrosion, food products, sterilization solutions and many organic chemicals as well as a variety of inorganic chemicals.

304/L - 0.035 Thickness - Stainless Steel Tubing

Tube O.D. (in.)	Tube I.D. (in.)	Working PSI	Weight Per / Ft.	Mfg Part #	Price $ Per / Ft.
1/4	0.180	5,250	.080	4035002	1.61
3/8	0.305	3,500	.127	4035003	2.11
1/2	0.430	2,625	.173	4035004	3.38
3/4	0.680	1,750	.267	4035006	3.78

NOTE: Price per foot and sold in 20 foot sections. 316 stainless steel available upon special request.

Specification: ASTM A213/A269
Grade: 304/L, (316/L Available)
Size: 1/4", 3/8", 1/2", and 3/4", (5/16", 7/16", 9/16", 5/8", 7/8" and 1" Available)
Thickness: 0.035", (0.028", 0.049", 0.065", 0.083", 0.095", and 0.120" Available)
PSI: Working pressures for T304/L A269 tubing between -20°F and 100°F

Installation Instructions





A - Simply insert the tubing into the assembly making sure the tubing seats firmly against the shoulder of the body and the nut is finger tight.

B - Tighten nut with wrench an additional number of turns indicated, while holding the fitting body with a second wrench.



Finger Tight Plus 1-1/4 Turns for Sizes 1/4" Thru 3/4"

John Guest® Valves

John Guest® Inch Acetal Shut-Off Valves

The PISV Range of inch-size Shut-Off Valves is available in 3/8" and 1/2" tube O.D. size. The Valve is manufactured in gray acetal copolymer with a nitrile o-ring. The valves are available with long and short handles to operate a 1/4 turn off action. Specifically designed for compressed air and portable liquids, the valves are ideal for CO_2 lines in beverage dispensing and for pneumatic applications.

Working Pressures and Temperatures

Air		150 psi at -4°F (10 bar at -20°C)
Air/Portable Liquids	Max.	150 psi at 33°F (10 bar at 1°C)
	Max.	150 psi at 73°F (10 bar at 23°C)
	Max.	100 psi at 150°F (7 bar at 65°C)

LEAD FREE

SHUT-OFF VALVE SHORT HANDLE



Tube O.D.	Bag Qty.	Box Qty.	Part #	Price $
3/8	10	100	PISV0412CS	11.38

SHUT-OFF VALVE LONG HANDLE



Tube O.D.	Bag Qty.	Box Qty.	Part #	Price $
3/8	10	100	PISV0412S	7.81
1/2	10	50	PISV0416S	7.89

ANGLE STOP VALVE



Tube O.D.	Bag Qty.	Box Qty.	Part #	Price $
3/8	25	25	NC2555	16.09

MOUNTING CLIP



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
3/8	10	100	SVMC-10	1.44
1/4	10	100	SVMC-06	1.53

John Guest® Inch Acetal Shut-Off and By-Pass Valves

Specifically manufacture in white acetal with EPDM 'O'-rings, these valves have been developed to satisfy the requirements of the US Recreational Vehicle (RV) and Mobile Home (MH) markets. The valves are for hot and cold water only.

Working Pressures and Temperatures

Water	Max.	150 psi at 70°F (10 bar at 20°C)
	Max.	60 psi at 140°F (4 bar at 60°C)
	Min.	34°F/1°C

STRAIGHT SHUT-OFF VALVE



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	1	25	NC2390	8.48

BY-PASS VALVE



RH = Gray Handle LH = Black Handle

Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	1	25	NC2391-RH	14.21
1/2	1	25	NC2391-LH	14.21

John Guest® Inch Acetal Check Valves

Super Speedfit Single Check Valves allow flow in one direction. For liquids only.

Working Pressures and Temperatures

Water	Max.	150 psi at 70°F (10 bar at 20°C)
	Max.	100 psi at 150°F (7 bar at 65°C)
	Min.	33°F/1°C

CHECK VALVE



Tube O.D.	Crack Pressure PSI	Bag Qty.	Box Qty.	Part #	Price $
1/4	0.3	10	300	1/4SCV	10.05
1/4	0.3	10	300	1/4SCV-R	10.05
5/16	0.3	10	300	5/16SCV	10.06
3/8	0.3	1	80	3/8SCV	10.29
1/4	5	10	300	NC2718	10.05

NSF 51
NSF 61

John Guest® Inch Polypropylene Angle Stop Adapter Valves

The PASV Range of all plastic inch size Angle Stop Valves is offered in Polypropylene with Polysulphone NPSM Male Threads. The valve is also available with Female Conversion adapter. The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels, or for heating systems.
FOR COLD WATER SUPPLY ONLY

Working Pressures and Temperatures

Water	Max.	145 psi at 68°F (10 bar at 20°C)
	Max.	58 psi at 140°F (4 bar at 60°C)
	Min.	34°F/1°C

LEAD FREE

NSF 51
NSF 61

ANGLE STOP ADAPTER VALVE



Tube O.D.	Thread Male Compression	Female Compression	Bag Qty.	Box Qty.	Part #	Price $
1/4	3/8	3/8	1	25	PASVPP1	8.75
3/8	3/8	3/8	1	25	PASVPP2	9.08

ANGLE STOP WITH CONVERSION THREAD



Tube O.D.	Thread Male/ Female NPS	Female Compression	Bag Qty.	Box Qty.	Part #	Price $
1/4	1/2	3/8	1	25	PASVPP5	14.20
3/8	1/2	3/8	1	25	PASVPP6	15.00

John Guest® Inch Polypropylene Shut-Off Valves

The PPSV Range of Shut-Off Valve is offered for tube sizes 1/4" O.D. and 3/8" O.D., produced in polypropylene and fitted with EPDM O-rings. Polypropylene has the advantage of being more chemically resistant than acetal. The valves are for use with potable water. The valves are not to be used with compressed air, explosive gases, petroleum spirits and other fuels, or for heating systems.

Working Pressures and Temperatures

Water	Max.	150 psi at 70°F (10 bar at 20°C)
	Max.	60 psi at 140°F (4 bar at 60°C)
	Min.	34°F/1°C

NSF 51
NSF 61

SPEEDFIT TO MALE



Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Part #	Price $
1/4	1/4	10	200	PPSV010822W	5.41
3/8	3/8	10	100	PPSV011223W	5.71

SPEEDFIT TO SPEEDFIT



Tube O.D.	Bag Qty.	Box Qty.	Part #	Price $
1/4	10	200	PPSV040808W	5.41
3/8	10	100	PPSV041212W	5.71

SPEEDFIT TO FEMALE



Tube O.D.	Thread NPTF	Bag Qty.	Box Qty.	Part #	Price $
1/4	1/4	10	200	PPSV500822W	5.96
3/8	1/4	10	100	PPSV501222W	6.23

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 010218

John Guest® Speedfit®

CTS JG Twist & Lock® Fittings

The PEI Range of JG Twist & Lock® Fittings is offered in 1/2", 3/4" and 1" CTS sizes.
The fittings are manufactured from high quality engineered plastic with EPDM O-Rings.
Speedfit Push-in System is suitable for hot and cold water plumbing applications.

LEAD FREE

ESR # 1931

NSF 14
NSF 61

TEE



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	5	25	PEI0220	4.65
3/4	2	10	PEI0228	7.75
1	1	5	PEI0236	14.55

ELBOW



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	5	40	PEI0320	4.54
3/4	5	20	PEI0328	6.82
1	1	10	PEI0336	11.45

REDUCING ELBOW



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
3/4 x 1/2	5	25	PEI212820	8.01
1 x 3/4	1	10	PEI213628	14.15

COUPLER



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	5	40	PEI0420	3.96
3/4	5	25	PEI0428	5.21
1	1	15	PEI0436	10.09

REDUCER



Size Stem x CTS	Bag Qty.	Box Qty.	Part #	Price $
3/4 x 1/2	10	50	PEI062820	4.47
1 x 3/4	5	30	PEI063628	5.91

REDUCING COUPLER



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
3/4 x 1/2	5	30	PEI202820	5.03
1 x 3/4	5	15	PEI203628	7.41

STEM ELBOW



Size Stem x CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2	10	60	PEI222020	3.18
3/4 x 3/4	5	25	PEI222828	4.45

FEMALE CONNECTOR



Size CTS x NPS	Bag Qty.	Box Qty.	Part #	Price $
3/4 x 3/4	5	40	PSEI452826	10.53
1/2 x 1/2	5	50	PEI452034	7.14

SLIP CONNECTOR/BURST PIPE REPAIR FITTING



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	1	5	1/2SCP	7.08
3/4	1	5	3/4SCP	8.69

TEE INSTALLATION KIT



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	1	5	1/2TKP	12.48
3/4	1	5	3/4TKP	15.68

REDUCING TEE



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
3/4 x 3/4 x 1/2	5	15	PEI3028A	7.37
3/4 x 1/2 x 1/2	5	20	PEI3028B	6.80
1/2 x 1/2 x 3/4	5	20	PEI3028C	6.80
3/4 x 1/2 x 3/4	5	15	PEI3028D	7.37
1 x 1 x 3/4	1	10	PEI3036A	8.74



Sizes are listed in the following order.

STACKABLE TEE



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2 x 1/2	5	30	PEI532020	5.81
3/4 x 3/4 x 1/2	5	20	PEI532820	7.61
3/4 x 3/4 x 3/4	1	15	PEI532828	8.26



Ideal for multi-port manifold.



Sizes are listed in the following order.

END CAPS



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	10	150	PSEI4620	3.24
3/4	5	80	PSEI4628	4.09
1	5	30	PSEI4636	6.57
1/2	10	150	PSEI4620B	3.24
1/2	10	150	PSEI4620R	3.24
3/4	5	80	PSEI4628B	4.09
3/4	5	80	PSEI4628R	4.09

Suffix indicates color. **B = Blue, R = Red**

MALE CONNECTOR



Size CTS x NPT	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2	10	80	PSEI012024	3.93
1/2 x 3/4	5	60	PSEI012026	4.44
3/4 x 3/4	5	50	PSEI012826	5.01
1 x 3/4	2	30	PSEI013626	7.20
1 x 1	2	20	PSEI013628	8.17

FEMALE SWIVEL ELBOW



Size CTS x NPS	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2	10	50	PEIBTC2034	5.41

FEMALE BALLCOCK CONNECTOR



Size CTS x UNS	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 7/8 - 15/16	10	50	PEISTC20C75	6.38

FEMALE SWIVEL CONNECTOR



Size CTS x NPS	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2	10	50	PEISTC2034	5.41

FEMALE BALLCOCK ELBOW



Size CTS x UNS	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 7/8 - 15/16	10	50	PEIBTC20C75	6.50

MALE FIXED ELBOW



Size CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2	5	60	PSEI482024	4.12

SHUT OFF VALVE



Size CTS x CTS	Bag Qty.	Box Qty.	Part #	Price $
1/2	1	100	PSEISV20	14.58
3/4	1	75	PSEISV28	18.32

LEAD FREE BRASS PRODUCTS

FOR USE WITH COPPER, PEX AND CPVC PIPE

LEAD FREE

ESR-1931
PMG-1033

BRASS MALE STEM ADAPTER



Size CTS x NPT	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2	10	100	MWI052024LF	8.27
3/4 x 3/4	1	40	MWI052826LF	13.51

BRASS MALE CONNECTOR



Size CTS x NPT	Bag Qty.	Box Qty.	Part #	Price $
1/2 x 1/2	5	100	MWI012024LF	7.27
1/2 x 3/4	5	100	MWI012026LF	7.22
3/4 x 3/4	5	50	MWI012826LF	13.16

Quick Connector Couplings

40AC Series - Acetal

40AC Series connectors offer 1/4" flow capacity and are manufactured in a high performance natural white, acetal material. Connector materials are resistant to most chemicals and are included on FDA & NSF GRAS lists. Temperature range -40°F to 180°F. Maximum pressure 120 psi.
40AC and 40CB couplings interconnect with each other and are compatible with other 1/4" flow, metal latch and spring connectors.

PLUG ELBOW



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 HB	40AC-PB4-04	2.04	40ACV-PB4-04	6.57
3/8 HB	40AC-PB4-06	2.04	40ACV-PB4-06	6.57

PLUG IN-LINE



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 PTF	40AC-PB9-04	3.15	40ACV-PB9-04	6.54
1/4 HB	40AC-PB2-04	1.02	40ACV-PB2-04	5.13
5/16 HB	40AC-PB2-05	1.02	40ACV-PB2-05	5.13
3/8 HB	40AC-PB2-06	1.02	40ACV-PB2-06	5.13

PLUG MALE THREAD



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 MNPT	40AC-PB1-04	1.57	40ACV-PB1-04	5.03
3/8 MNPT	40AC-PB1-06	1.02	40ACV-PB1-06	5.03

SOCKET IN-LINE



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 PTF	40AC-S9-04	7.13	40ACV-SB9-04	8.32
1/4 HB	40AC-S2-04	4.14	40ACV-SB2-04	4.98
5/16 HB	40AC-S2-05	4.21	40ACV-SB2-05	4.98
3/8 HB	40AC-S2-06	4.14	40ACV-SB2-06	4.98

SOCKET MALE THREAD



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 MNPT	40AC-S1-04	4.64	40ACV-SB1-04	5.26
3/8 MNPT	40AC-S1-06	4.64	40ACV-SB1-06	5.26

50AC Series - Acetal

50AC Series connectors offer 1/4" flow capacity and feature an easy to use plastic thumb latch. These connectors are manufactured in a high performance natural white, acetal material. They are available with or without internal shut-off valves. The connector materials are resistant to most chemicals and are included on FDA & NSF GRAS lists. 50AC and 50GP couplings interconnect with each other and are compatible with other 1/4" flow, plastic latch-type connectors. Temperature range -40°F to 180°F. Maximum pressure 120 psi.
50AC and 50GP couplings interconnect with each other and are compatible with other 1/4" flow, plastic latch and spring connectors.

PLUG ELBOW



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 HB	50AC-PB4-04	0.96	50ACV-PB4-04	5.87
3/8 HB	50AC-PB4-06	0.96	50ACV-PB4-06	5.91
3/8 PTF	50AC-PB10-06	5.15	50ACV-PB10-06	6.52

PLUG IN-LINE



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 PTF	50AC-PB9-04	3.48	50ACV-PB9-04	6.04
1/4 HB	50AC-PB2-04	0.75	50ACV-PB2-04	4.50
5/16 HB	N/A	N/A	50ACV-PB2-05	4.50
3/8 HB	50AC-PB2-06	0.75	50ACV-PB2-06	4.50

PLUG MALE THREAD



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 MNPT	50AC-PB1-04	0.75	50ACV-PB1-04	4.64
3/8 MNPT	50AC-PB1-06	1.61	50ACV-PB1-06	4.66

SOCKET IN-LINE



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 PTF	50AC-S9-04-LB	7.25	50ACV-SB9-04	6.80
1/4 HB	50AC-S2-04	1.22	50ACV-SB2-04	4.40
5/16 HB	N/A	N/A	50ACV-SB2-05	4.40
3/8 HB	50AC-S2-06	1.19	50ACV-SB2-06	4.40

SOCKET MALE THREAD



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 MNPT	50AC-S1-04	2.24	50ACV-SB1-04	3.69

40CB Series
Chrome Plated Brass

40CB Series connectors offer 1/4" flow capacity and are manufactured from chrome plated brass. 40CB Series connectors are available with internal shut-off valves or straight through configurations. 40CB Connectors are very durable and offer high performance ratings. Temperature range -40°F to 120°F. Maximum pressure 250 psi.
40AC and 40CB couplings interconnect with each other and are compatible with other 1/4" flow, metal latch and spring connectors.

PLUG IN-LINE



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 HB	40CB-PB2-04	5.95	40CBV-PB2-04	12.78
5/16 HB	40CB-PB2-05	5.95	40CBV-PB2-05	13.30
3/8 HB	40CB-PB2-06	5.95	40CBV-PB2-06	12.78

SOCKET IN-LINE



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 HB	40CB-S2-04	19.41	40CBV-SB2-04	20.56
5/16 HB	40CB-S2-05	20.06	40CBV-SB2-05	21.51
3/8 HB	40CB-S2-06	19.58	40CBV-SB2-06	20.56

NOTE: **HB** = Hose Barbs
PTF = Poly Tube Fitting (suitable for semi-rigid tubing)
Non-Valved = Straight through flow
Valved = Internal shut-off valve

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Quick Connector Couplings

50GP Series
Glass-Filled Polypropylene

50GP Series connectors offer 1/4" flow capacity, are manufactured from a high performance glass filled, pure white polypropylene, and are designed for applications that require extra durability. Connector materials are included on FDA & NSF GRAS lists and incorporates excellent chemical resistance properties. Temperature range 32°F to 180°F. Maximum pressure 120 psi. 50AC and 50GP couplings interconnect with each other and are compatible with other 1/4" flow, plastic latch and spring connectors.

PLUG ELBOW



Connection Size	Non-Valved Part #	Price $
3/8 HB	50GP-PE7-06	0.91

PLUG IN-LINE



Connection Size	Non-Valved Part #	Price $
1/4 HB	50GP-PE5-04	0.69
3/8 HB	50GP-PE5-06	0.69

PLUG MALE THREAD



Connection Size	Non-Valved Part #	Price $
1/4 MNPT	50GP-PE1-04	0.69

SOCKET ELBOW



Connection Size	Non-Valved Part #	Price $
3/8 HB	50GP-S7-06	1.84

SOCKET IN-LINE



Connection Size	Non-Valved Part #	Price $	Valved Part #	Price $
1/4 HB	50GP-S5-04	1.22	N/A	N/A
3/8 HB	50GP-S5-06	1.22	50GPV-SE5-06	4.77

SOCKET MALE THREAD



Connection Size	Non-Valved Part #	Price $
1/4 MNPT	50GP-S1-04	1.97

65GP Series
Glass-Filled Polypropylene

65GP Series connectors offer 1/2" flow capacity and are manufactured from a high performance glass-filled, pure white polypropylene, which is included on FDA & NSF GRAS lists. 65GP connectors have a full flow, non-valved, smooth internal bore that allows for maximum flow with minimal turbulence. 65GP connectors are extremely durable and are well suited for applications that require chemical resistance. Temperature range 32°F to 180°F. Maximum pressure 120 psi. 65GP Series connectors are compatible with other 1/2" flow, plastic latch and spring connectors.

PLUG IN-LINE



Connection Size	Non-Valved Part #	Price $
1/2 HB	65GP-PE2-08	4.30

PLUG MALE THREAD



Connection Size	Non-Valved Part #	Price $
1/2 MNPT	65GP-PE1-08	4.83

SOCKET IN-LINE



Connection Size	Non-Valved Part #	Price $
3/4 HB	65GP-S2-12	7.92

Part Number Guide

40 AC V - S B 2 - 04

Flow Size / Latch Type	Coupling Material	Valve	Configuration	O-Ring Material	End Termination Type	End Termination Size
40 = 1/4 flow	AC = Acetal	V = Valved	S = Socket	B = Buna-N	1 = Male Thread MNPT	04 = 1/4
50 = 1/4 flow (plastic latch)	CB = Chrome/Brass	Default is Non-Valved	P = Plug	V = FPM	2 = In-line Hose Barb	06 = 3/8
65 = 1/2 flow (plastic latch)	GP = Glass Filled Polypropylene				4 = Elbow Hose Barb	08 = 1/2
					5 = Single Hose Barb	
					7 = Single HB Elbow	
					9 = In-line Poly Tube Fitting	
					10 = Elbow Poly Tube Fitting	

NOTE: HB = Hose Barbs, **PTF** = Poly Tube Fitting (suitable for semi-rigid tubing), **Non-Valved** = Straight through flow, **Valved** = Internal shut-off valve

All prices subject to change without notice.

PVC & PVDF Cam and Groove Fittings



Features For PVC:

◊ • Socket Weld
- Available in type A & D
- Interchangeable
- Transition from PVC pipe to hose systems is easy



Features For PVDF:

- Acid resistant
- Resistant to abrasion and low friction coefficient
- High temp. & thermal stability
- UV & Y radiation stability

PVDF Pictured Below



Type A
Male Adapter x Female Thd

Size In.	Part # ◊PVC socket	Price $	Part # PVDF	Price $
1/2"	3921-PV	4.70	3921-PF	31.57
3/4"	3922-PV	5.10	3922-PF	31.57
1"	3923-PV	6.00	3923-PF	33.42
1 1/4"	3924-PV	6.40	-	-
1 1/2"	3925-PV	6.80	3925-PF	43.93
2"	3926-PV	8.00	3926-PF	46.40
2 1/2"	-	-	-	-
3"	3927-PV	17.60	3927-PF	83.48
4"	-	-	-	-



Type B
Female Coupler x Male Thd

Size In.	Part # ◊PVC	Price $	Part # PVDF	Price $
1/2"	-	-	3929-PF	43.26
3/4"	-	-	3930-PF	43.26
1"	-	-	3931-PF	49.49
1 1/4"	-	-	-	-
1 1/2"	-	-	3933-PF	57.53
2"	-	-	3934-PF	63.65
2 1/2"	-	-	-	-
3"	-	-	3935-PF	108.87
4"	-	-	-	-



Type C
Female Coupler x Hose Shank

Size In.	Part # ◊PVC	Price $	Part # PVDF	Price $
1/2"	-	-	3937-PF	43.26
3/4"	-	-	3938-PF	43.26
1"	-	-	3939-PF	49.49
1 1/4"	-	-	-	-
1 1/2"	-	-	3941-PF	58.14
2"	-	-	3942-PF	65.56
2 1/2"	-	-	-	-
3"	-	-	3943-PF	101.40
4"	-	-	-	-



Type D
Female Coupler x Female NPT

Size In.	Part # ◊PVC socket	Price $	Part # PVDF	Price $
1/2"	3945-PV	14.70	3945-PF	44.55
3/4"	3946-PV	15.00	3946-PF	44.55
1"	3947-PV	17.10	3947-PF	50.11
1 1/4"	3948-PV	20.00	-	-
1 1/2"	3949-PV	23.80	3949-PF	58.14
2"	3950-PV	27.40	3950-PF	64.94
2 1/2"	-	-	-	-
3"	3951-PV	42.30	3951-PF	107.02
4"	-	-	-	-



Type E
Male Adapter x Hose Shank

Size In.	Part # ◊PVC	Price $	Part # PVDF	Price $
1/2"	-	-	3957-PF	35.84
3/4"	-	-	3958-PF	35.84
1"	-	-	3959-PF	38.37
1 1/4"	-	-	-	-
1 1/2"	-	-	3961-PF	41.41
2"	-	-	3962-PF	44.55
2 1/2"	-	-	-	-
3"	-	-	3963-PF	74.26
4"	-	-	-	-



Type F
Male Adapter x Male NPT

Size In.	Part # ◊PVC	Price $	Part # PVDF	Price $
1/2"	-	-	3965-PF	35.84
3/4"	-	-	3966-PF	35.84
1"	-	-	3967-PF	37.13
1 1/4"	-	-	-	-
1 1/2"	-	-	3969-PF	41.46
2"	-	-	3970-PF	44.55
2 1/2"	-	-	-	-
3"	-	-	3971-PF	97.70
4"	-	-	-	-



Type DP
Dust Plug

Size In.	Part # ◊PVC	Price $	Part # PVDF	Price $
1/2"	-	-	-	-
3/4"	-	-	3973-PF	32.14
1"	-	-	3974-PF	33.42
1 1/4"	-	-	-	-
1 1/2"	-	-	3975-PF	36.51
2"	-	-	3976-PF	39.55
2 1/2"	-	-	-	-
3"	-	-	3978-PF	92.75
4"	-	-	-	-



Type DC
Dust Cap

Size In.	Part # ◊PVC	Price $	Part # PVDF	Price $
1/2"	-	-	-	-
3/4"	-	-	3980-PF	40.32
1"	-	-	3981-PF	47.02
1 1/4"	-	-	-	-
1 1/2"	-	-	3982-PF	55.73
2"	-	-	3983-PF	62.47
2 1/2"	-	-	-	-
3"	-	-	3985-PF	82.86
4"	-	-	-	-

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ALSCO™ Banjo PP Cam & Groove Fittings/Accessories

Features For Banjo Blk PP:
- PP with glass filled fiberglass for strength and durability.
- Interchangeable with all types of cam lever couplers.
- SS rings, cam levers, and pins - will not rust or bend.
- Standard gaskets are EPDM with 304 SS handles.
- Buna "N" and FKM (Fpm type) seals also available.

NOTE: 1/2" couplings interchange with 3/4" couplings. Banjo 1 1/4" Couplers & Adapters will interchange with 1" Couplings. Only the Threads and Barbs are 1 1/4". 1 1/2" x 1 1/4" couplings interchange with 1 1/2" size couplings. Coupling and Adapter ends are 1 1/2" size. Only the threads and barbs are 1 1/4". PP not recommended for use with PTFE gaskets.
*3"C (303C) & All 4" Couplings have 3 arms for positive seal!

WARNING: Couplings should not be disconnected under pressure or with liquid in the line.



Type A Male Adapter x Female Thd

Size (in.)	Part #	Price
1/2	75A1/2	$2.66
3/4	75A3/4	$2.66
1	100A	$3.93
1 1/4 x 1	125A	$3.93
1 1/4X1 1/2	150125A	$5.36
1 1/2	150A	$4.46
2	200A	$5.26
3	300A	$12.71
4	400A	$23.27



Type B Female Coupler x Male Thread

Size (in.)	Part #	Price
1/2	75B1/2	$6.09
3/4	75B3/4	$6.09
1	100B	$10.32
1 1/4 x 1	125B	$10.32
1 1/4X1 1/2	150125B	$14.53
1 1/2	150B	$12.10
2	200B	$14.74
2	201B	$14.74
3	300B	$24.77
3	303B	$31.77
4	400B	$58.89



Type C Female Coupler x Hose Shank

Size (in.)	Part #	Price
1/2	050C	$8.98
3/4	075C	$8.98
1	100C	$10.32
1 1/4 x 1	125C	$10.32
1 1/4X1 1/2	150125C	$14.55
1 1/2	150C	$12.10
2	200C	$14.74
2X1 1/2	200150C	$16.72
3	300C	$24.77
3*	303C	$31.77
4	400C	$49.08

*Comes with 3 arms



Type D Female Coupler x Female NPT

Size (in.)	Part #	Price
1/2	050D	$8.98
3/4	075D	$8.98
3/4X3/8	075D3/8	$8.98
1	100D	$10.32
1 1/4 x 1	125D	$10.32
1 1/4X1 1/2	150125D	$14.53
1 1/2	150D	$12.10
2	200D	$14.74
3	300D	$24.77
4	400D	$49.08



Type E Male Adapter x Hose Shank

Size (in.)	Part #	Price
1/2	050E	$4.25
3/4	075E	$4.25
1	100E	$4.72
1 1/4 x 1	125E	$4.72
1 1/4X1 1/2	150125E	$5.68
1 1/2	150E	$4.73
2	200E	$6.21
3	300E	$16.29
4	400E	$23.27



Type F Male Adapter x Male NPT

Size (in.)	Part #	Price
1/2	050F	$4.25
3/4	075F	$4.25
1	100F	$4.72
1 1/4 x 1	125F	$4.72
1 1/4X1 1/2	150125F	$5.68
1 1/2	150F	$4.73
2	200F	$6.21
3	300F	$16.29
4	400F	$23.27



90° Adapter x Female NPT

Size (in.)	Part #	Price
1 1/2	150A90	$8.44
2	200A90	$9.63



90° Female Coupler x Male Thread

Size (in.)	Part #	Price
2	200B90	$21.58



90° Adapter x Male NPT

Size (in.)	Part #	Price
1 1/2	150F90	$10.12
2	200F90	$9.05



90° Coupler x Hose Shank

Size (in.)	Part #	Price
1 1/2	150C90	$17.39
2	200C90	$17.98



45° Male Adapter x Male Thread

Size (in.)	Part #	Price
2	200F45	$17.00



90° Coupler x Female NPT

Size (in.)	Part #	Price
1 1/2	150D90	$17.36
2	200D90	$17.98



Dust Plug

Size (in.)	Part #	Price
1/2	75PL	$4.25
3/4	75PL	$4.25
1	100125PL	$4.08
1 1/4 x 1	100125PL	$4.08
1 1/4X1 1/2	150PL	$5.47
1 1/2	150PL	$5.47
2	200PL	$6.16
3	300PL	$12.91
4	400PL	$18.29



Dust Cap

Size (in.)	Part #	Price
1/2	075CAP	$8.98
3/4	075CAP	$8.98
1	100125CAP	$9.92
1 1/4 x 1	100125CAP	$9.92
1 1/4X1 1/2	150CAP	$12.10
1 1/2	150CAP	$12.10
2	200CAP	$14.74
2	200CAPSH	$17.69
2 1/2	250CAP	$45.88
3	300CAP	$24.77
4	400CAP	$35.79



Spool Adapter

Size (in.)	Part #	Price
2	200FF	$16.20
3	300FF	$38.92
3 x 2	300F200F	$38.92



Type C shown

1 1/2" Locking Couplings

Size (in.)	Part #	Price
1 1/2	L150B	$26.01
1 1/2	L150C	$26.01
1 1/2	L150D	$26.01
1 1/2	L150CAP	$26.01



Type C shown

2" Locking Couplings

Size (in.)	Part #	Price
2	L200B	$28.65
2	L200C	$28.65
2	L200D	$28.65
2	L200CAP	$28.65



Locking Arm With Ring Coupling Pin

Size (in.)	Part #	Price
1 1/2&2	200KL	$9.92
1 1/2&2	200PKL	$2.10



PP Switch-A-Roos

Size (in.)	Part #	Price
3/4-1/4	75A1/4/SA	$4.71
3/4-3/8	75A3/8/SA	$3.93
3/4-1/2	75A1/2/SA	$3.93
3/4-3/4	75A3/4/SA	$3.93
3/4-1/4	75A1/4	$4.71
3/4-3/8	75A3/8	$3.93
3/4-1/2	75A1/2	$4.71
3/4-3/4	75A3/4	$3.93
3/4-1/2	75B1/2	$10.78
3/4-3/4	75B3/4	$8.98

Switch-A-Roo Features:
- The Switch-A-Roo is a fast, convenient method of changing spray nozzles on fertilizer application equipment.
- The female coupling is available in either 1/2" or 3/4" pipe thread and normally mounted on the spray boom.
- The male adapter is available in four different thread sizes 1/4", 3/8", 1/2", and 3/4" to fit all size spray nozzles.
- Switch-A-Roo's available with self-aligning grooves.

Banjo 316 SS Cam and Groove Fittings

Banjo 316 Stainless Steel Cam and Groove Fittings

Features:

- 150 P.S.I. maximum operating pressure.
- Chemical resistant to protect against corrosion.
- Precision-made, investment casting high quality process to assure uniformity & proper fit.
- Smooth operation makes connections quick & easy.
- Tough 316 stainless steel to insure durability.
- Standard with Buna "N" gaskets. FKM and EPDM available. PTFE Available upon request.
- Versatile to interchange with all types of cam lever couplings.
- WARNING: Couplings should not be disconnected under pressure or with liquid in the line.
- Tough 316 stainless steel to insure durability.



Male Adapter - Female Thread

Size (in.)	Mfg Part #	Price $
3/4	075ASS	50.31
1	100ASS	50.82
1 1/2	150ASS	51.96
2	200ASS	66.93
3	300ASS	137.04
4	400ASS	214.10



Female Coupler - Male Thread

Size (in.)	Mfg Part #	Price $
3/4	075BSS	76.45
1	100BSS	95.80
1 1/2	150BSS	105.81
2	200BSS	137.45
3	300BSS	259.60
4	400BSS	320.51



Female Coupler - Hose Shank

Size (in.)	Mfg Part #	Price $
3/4	075CSS	74.10
1	100CSS	84.00
1 1/2	150CSS	91.91
2	200CSS	123.82
3	300CSS	199.83
4	400CSS	296.74



Female Coupler - Female Thread

Size (in.)	Mfg Part #	Price $
3/4	075DSS	77.19
1	100DSS	83.21
1 1/2	150DSS	126.97
2	200DSS	127.81
3	300DSS	261.67
4	400DSS	321.48



Male Adapter - Hose Shank

Size (in.)	Mfg Part #	Price $
3/4	075ESS	52.46
1	100ESS	51.39
1 1/2	150ESS	65.60
2	200ESS	70.11
3	300ESS	139.61
4	400ESS	276.68



Male Adapter - Male Thread

Size (in.)	Mfg Part #	Price $
3/4	075FSS	56.28
1	100FSS	69.63
1 1/2	150FSS	96.57
2	200FSS	96.55
3	300FSS	190.61
4	400FSS	276.68



Plug for Female Coupler

Size (in.)	Mfg Part #	Price $
3/4	075PL/SS	51.39
1	100PL/SS	55.03
1 1/2	150PL/SS	54.59
2	200PL/SS	63.84
3	300PL/SS	118.33
4	400PL/SS	179.06



Cap for Male Adapter

Size (in.)	Mfg Part #	Price $
3/4	075CAP/SS	76.45
1	100CAP/SS	87.01
1 1/2	150CAP/SS	98.91
2	200CAP/SS	106.31
3	300CAP/SS	155.63
4	400CAP/SS	225.38

REPLACEMENT PARTS FOR POLY COUPLINGS

Gaskets

Size In.	Part # EPDM	Price $	Part # EPDM EXTRA THICK	Price $
3/4"	75G	$0.71	075GXT	$1.07
1"	100G	$0.71	100GXT	$1.16
1 1/2"	150G	$0.76	150GXT	$1.36
2"	200G	$0.80	200GXT	$1.68
2 1/2"	250G	$1.09	-	-
3"	300G	$1.09	300GXT	$2.24
4"	400G	$2.56	400GXT	$3.06

Size In.	Part # CAM ARM SS W/RING	Price $	Part # CAM PIN	Price $
3/4"	75K	$2.96	75P	$0.73
1"	100K	$2.96	100P	$0.73
2"	150(200)K	$4.01	200P	$0.76
3"	300K	$5.68	300P	$1.59

Gaskets

Size In.	Part # FKM FPM TYPE	Price $	Part # FKM EXTRA THICK	Price $
3/4"	75GV	$8.47	-	-
1"	100GV	$8.32	-	-
1 1/2"	150GV	$8.66	150GXTV	$9.25
2"	200GV	$13.41	200GXTV	$14.16
3"	300GV	$18.40	300GXTV	$19.70
4"	400GV	$28.92	-	-

Size In.	Part # RING STAINLESS	Price $
3/4"	100RING	$0.73
1"	100RING	$0.73
1 1/4"	100RING	$0.73
1 1/2"	150RING	$1.05
2"	150RING	$1.05
3"	150RING	$1.05

Gaskets

Size In.	Part # BUNA	Price $	Part # EPDM FDA	Price $
3/4"	75GB	$0.85	75GFD	$0.99
1"	100GB	$0.85	100GW	$1.38
1 1/2"	150GB	$0.95	150GFD	$1.53
2"	200GB	$1.01	200GFD	$1.53
3"	300GB	$1.36	300GFD	$22.48
4"	400GB	$3.14	-	-

Description	Part #	Price $
11" Lanyard	V20207	$2.00

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ALSCO™ Metal Cam and Groove Fittings



Quick Couplers

Features:

- Available in sizes 1/2" through 8"
- All sizes except 5" and 8" are made to comply with MIL Spec A-A-59326. Sizes 5" & 8" comply with ASTM Specifications. 1/2" x 1/2" are not specified under MIL Specs.
- Operating Pressure - Aluminum: 1/2" - 4" 150PSI, 5" - 6" 75 PSI, 8" 50 PSI SS Type 304: 1/2" - 2" 250 PSI, 4" 150PSI, 5" - 6" 75 PSI SS Type 316: 1/2" - 2" 250PSI, 2 1/2" - 4" 150 PSI, 5" - 6" 75 PSI



Type A
MA x FPT

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0850-005	3.65	0851-005	9.79	0852-005	12.63
3/4x1/2	-	-	-	-	-	-
3/4"	0850-007	3.65	0851-007	8.65	0852-007	11.50
1"	0850-010	4.52	0851-010	11.18	0852-010	14.74
1 1/4"	0850-012	6.08	0851-012	16.22	0852-012	24.06
1 1/2"	0850-015	4.59	0851-015	20.12	0852-015	28.74
2"	0850-020	5.56	0851-020	22.02	0852-020	29.64
2 1/2"	0850-025	10.47	0851-025	39.23	0852-025	56.24
3"	0850-030	9.93	0851-030	43.34	0852-030	56.49
4"	0850-040	16.89	0851-040	80.19	0852-040	115.61
6"	0850-060	39.18	0851-060	166.26	0852-060	252.46
8"	0850-080	155.38	-	-	-	-



Type E
MA x HS

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0862-005	3.50	0863-005	10.77	0864-005	13.89
3/4x1/2	-	-	-	-	-	-
3/4"	0862-007	3.69	0863-007	7.86	0864-007	10.50
1"	0862-010	4.31	0863-010	12.10	0864-010	16.19
1 1/4"	0862-012	6.66	0863-012	17.78	0864-012	27.50
1 1/2"	0862-015	5.13	0863-015	22.35	0864-015	33.12
2"	0862-020	6.62	0863-020	33.59	0864-020	48.74
2 1/2"	0862-025	11.18	0863-025	48.73	0864-025	69.36
3"	0862-030	14.01	0863-030	67.99	0864-030	94.98
4"	0862-040	20.80	0863-040	106.64	0864-040	162.48
6"	0862-060	61.65	0863-060	240.79	0864-060	354.94
8"	0862-080	170.84	-	-	-	-



Type B
FC X MPT

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0853-005	7.30	0854-005	16.09	0855-005	20.77
3/4x1/2	-	-	-	-	-	-
3/4"	0853-007	7.81	0854-007	16.80	0855-007	18.50
1"	0853-010	9.56	0854-010	23.43	0855-010	25.62
1 1/4"	0853-012	11.59	0854-012	33.76	0855-012	36.99
1 1/2"	0853-015	11.16	0854-015	39.85	0855-015	44.99
2"	0853-020	14.06	0854-020	38.81	0855-020	53.74
2 1/2"	0853-025	19.86	0854-025	53.62	0855-025	68.11
3"	0853-030	22.32	0854-030	75.81	0855-030	101.23
4"	0853-040	28.53	0854-040	110.07	0855-040	158.10
6"	0853-060	68.66	0854-060	237.53	0855-060	356.19
8"	-	-	-	-	-	-



Type F
MA x MPT

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0865-005	5.43	0866-005	12.46	0867-005	16.08
3/4x1/2	-	-	-	-	-	-
3/4"	0865-007	4.75	0866-007	10.09	0867-007	13.44
1"	0865-010	5.66	0866-010	13.83	0867-010	20.19
1 1/4"	0865-012	8.25	0866-012	20.98	0867-012	28.60
1 1/2"	0865-015	5.87	0866-015	25.56	0867-015	39.38
2"	0865-020	7.59	0866-020	33.25	0867-020	49.99
2 1/2"	0865-025	13.80	0866-025	50.58	0867-025	77.48
3"	0865-030	14.61	0866-030	67.65	0867-030	94.98
4"	0865-040	22.51	0866-040	117.80	0867-040	174.35
6"	0865-060	56.88	0866-060	255.70	0867-060	374.93
8"	-	-	-	-	-	-



Type C
FC X HS

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0856-005	5.97	0857-005	17.40	0858-005	22.45
3/4x1/2	-	-	-	-	-	-
3/4"	0856-007	5.78	0857-007	13.49	0858-007	17.23
1"	0856-010	7.84	0857-010	18.44	0858-010	24.74
1 1/4"	0856-012	11.55	0857-012	26.71	0858-012	35.69
1 1/2"	0856-015	10.61	0857-015	32.15	0858-015	40.74
2"	0856-020	13.23	0857-020	42.51	0858-020	61.25
2 1/2"	0856-025	18.35	0857-025	59.56	0858-025	79.36
3"	0856-030	22.22	0857-030	82.55	0858-030	112.48
4"	0856-040	33.13	0857-040	123.84	0858-040	187.47
6"	0856-060	82.19	0857-060	269.45	0858-060	374.93
8"	0856-080	288.94	-	-	-	-



Type DC
DUST CAP

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0868-005	6.75	0869-005	15.06	0870-005	19.41
3/4x1/2	-	-	-	-	-	-
3/4"	0868-007	6.93	0869-007	11.75	0870-007	14.71
1"	0868-010	8.41	0869-010	16.22	0870-010	20.64
1 1/4"	0868-012	12.73	0869-012	22.35	0870-012	28.85
1 1/2"	0868-015	9.54	0869-015	26.54	0870-015	33.69
2"	0868-020	11.55	0869-020	30.95	0870-020	40.99
2 1/2"	0868-025	15.53	0869-025	47.66	0870-025	63.74
3"	0868-030	17.99	0869-030	60.88	0870-030	81.23
4"	0868-040	25.04	0869-040	83.71	0870-040	106.77
6"	0868-060	59.07	0869-060	194.92	0870-060	293.71
8"	0868-080	232.38	-	-	-	-



Type D
FC X FPT

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0859-005	9.58	0860-005	19.14	0861-005	24.71
3/4x1/2	-	-	-	-	-	-
3/4"	0859-007	8.50	0860-007	15.14	0861-007	18.84
1"	0859-010	9.56	0860-010	19.88	0861-010	25.62
1 1/4"	0859-012	13.06	0860-012	29.24	0861-012	36.24
1 1/2"	0859-015	11.99	0860-015	34.58	0861-015	48.74
2"	0859-020	15.13	0860-020	42.19	0861-020	61.25
2 1/2"	0859-025	22.10	0860-025	59.56	0861-025	83.74
3"	0859-030	22.32	0860-030	80.19	0861-030	104.98
4"	0859-040	33.25	0860-040	120.39	0861-040	166.23
6"	0859-060	76.35	0860-060	243.08	0861-060	324.95
8"	0859-080	257.53	-	-	-	-



Type DP
DUST PLUG

Size In.	Part # Alum.	Price $	Part # SS 304	Price $	Part # SS 316	Price $
1/2"	0874-005	3.51	0875-005	7.17	0876-005	9.25
3/4x1/2	-	-	-	-	-	-
3/4"	0874-007	4.18	0875-007	4.65	0876-007	6.23
1"	0874-010	4.08	0875-010	6.99	0876-010	10.51
1 1/4"	0874-012	5.26	0875-012	12.15	0876-012	17.62
1 1/2"	0874-015	3.69	0875-015	14.68	0876-015	22.25
2"	0874-020	4.64	0875-020	21.48	0876-020	31.88
2 1/2"	0874-025	9.50	0875-025	32.27	0876-025	45.62
3"	0874-030	7.75	0875-030	38.76	0876-030	49.99
4"	0874-040	13.71	0875-040	63.06	0876-040	96.23
6"	0874-060	31.83	0875-060	175.43	0876-060	259.96
8"	-	-	-	-	-	-

ALSCO™ Banjo HD Pipe & Hose Barb Fittings

Pipe Fitting Features:
- Glass Reinforced Polypropylene.
- Lightweight with excellent strength.
- Excellent chemical resistance.
- Heavy Duty Schedule 80.
- NPT threads.
- Pressure to 150 PSI at 70°F.

Hose Barb Fitting Features:
- Precision molded in polypropylene.
- Glass reinforced for stability, strength and toughness.
- Hose barbs are molded specifically to fit properly into hoses.
- Combination sizes available for elbows and straight barbs.
- Excellent chemical resistance.
- Pressure to 150 PSI at 70°F.

Poly Nipple Thr x Thr



Size (in.)	Part # Blk PP	Price
1/4xShort	NIP025-SH	$1.08
3/8xShort	NIP038-SH	$1.08
1/2xShort	NIP050-SH	$1.22
1/2x3	NIP050-3	$2.30
3/4xShort	NIP075-SH	$1.04
3/4X4	NIP075-4	$2.40
3/4X6	NIP075-6	$2.81
1xShort	NIP100-SH	$1.49
1X4	NIP100-4	$2.55
1X6	NIP100-6	$3.17
1 1/4xShort	NIP125-SH	$1.80
1 1/4X4	NIP125-4	$3.17
1 1/4X6	NIP125-6	$3.60
1 1/2xShort	NIP150-SH	$2.75
1 1/2X3	NIP150-3	$4.06
1 1/2X4	NIP150-4	$6.77
1 1/2x5	NIP150-5	$7.58
1 1/2x6	NIP150-6	$7.97
2xShort	NIP200-SH	$3.11
2X4	NIP200-4	$6.55
2X6	NIP200-6	$7.65
3xShort	NIP300-SH	$9.75
3X4	NIP300-4	$14.64
3x6	NIP300-6	$18.89
4xShort	NIP400-SH	$18.20

Poly Reducing Nipple Thr x Thr



Size (in.)	Part # Blk PP	Price
1/2X3/8	RN050-038	$1.82
3/4X1/2	RN075-050	$1.95
1X1/2	RN100-050	$2.52
1X3/4	RN100-075	$2.29
1 1/4X3/4	RN125-075	$2.65
1 1/4X1	RN125-100	$2.40
1 1/2X1	RN150-100	$2.84
1 1/2X1 1/4	RN150-125	$2.55
2X1 1/4	RN200-125	$3.48
2X1 1/2	RN200-150	$2.82
3X2	RN300-200	$9.71

Poly Pipe Plug Threaded



Size (in.)	Part # Blk PP	Price
1/4	PLUG025	$2.05
3/8	PLUG038	$2.02
1/2	PLUG050	$2.55
3/4	PLUG075	$2.55
1	PLUG100	$2.55
1 1/4	PLUG125	$2.55
1 1/2	PLUG150	$4.06
2	PLUG200	$3.38
3	PLUG300	$16.00

Poly Cross Threaded



Size (in.)	Part # Blk PP	Price
1/4	CR025	$9.59
3/8	CR038	$10.53
1/2	CR050	$16.31
3/4	CR075	$16.31
1	CR100	$16.31
1 1/4	CR125	$24.31
1 1/2	CR150	$24.31
2	CR200	$24.80

Poly Gauge Tee (Gauge not incld)



Size (in.)	Part # Blk PP	Price
3/4x1/4	TEG075	$16.17
1x1/4	TEG100	$16.17

Poly Reducing Bushing MPT x FPT



Size (in.)	Part # Blk PP	Price
3/8X1/4	RB038-025	$2.40
1/2X1/4	RB050-025	$2.00
1/2X3/8	RB050-038	$2.40
3/4X1/8	RB075-018	$2.40
3/4X1/4	RB075-025	$2.40
3/4X3/8	RB075-038	$2.40
3/4X1/2	RB075-050	$2.40
1X1/8	RB100-018	$2.05
1X1/4	RB100-025	$2.55
1X1/2	RB100-050	$2.55
1X3/4	RB100-075	$2.12
1 1/4X3/8	RB125-038	$2.12
1 1/4X3/4	RB125-075	$2.55
1 1/4X1	RB125-100	$2.55
1 1/2X3/4	RB150-075	$3.38
1 1/2X1	RB150-100	$3.38
1 1/2X1 1/4	RB150-125	$3.38
2X3/4	RB200-075	$3.05
2X1	RB200-100	$3.05
2X1 1/4	RB200-125	$3.67
2X1 1/2	RB200-150	$3.05
3X1 1/2	RB300-150	$15.29
3X2	RB300-200	$12.74
4X3	RB400-300	$23.70

Poly Pipe Coupling Threaded



Size (in.)	Part # Blk PP	Price
1/4	CPLG025	$3.26
3/8	CPLG038	$3.67
1/2	CPLG050	$3.67
3/4	CPLG075	$3.67
1	CPLG100	$3.48
1 1/4	CPLG125	$5.63
1 1/2	CPLG150	$7.80
2	CPLG200	$8.90
3	CPLG300	$25.18

Poly Reducing Coupling Thr x Thr



Size (in.)	Part # Blk PP	Price
1X3/4	RC100-075	$5.43
1 1/2X1	RC150-100	$9.23
1 1/2X1 1/4	RC150-125	$9.23
2X1/2	RC200-050	$9.81
2X1	RC200-100	$8.17
2X1 1/4	RC200-125	$9.81
2X1 1/2	RC200-150	$8.17
3X2	RC300-200	$29.01

Poly Pipe Cap Threaded



Size (in.)	Part # Blk PP	Price
1/4	CAP025	$1.84
3/8	CAP038	$1.96
1/2	CAP050	$4.93
3/4	CAP075	$4.93
1	CAP100	$4.11
1 1/4	CAP125	$5.54
1 1/2	CAP150	$6.97
2	CAP200	$8.08
3	CAP300	$28.94

Poly Manifold 8 Station



Size (in.)	Part # Blk PP	Price
3/4x1/2	TM075/050	$29.74

Poly Elbow 90° Threaded



Size (in.)	Part # Blk PP	Price
1/4	EL025-90	$2.63
3/8	EL038-90	$3.55
1/2	EL050-90	$3.21
3/4	EL075-90	$2.90
1	EL100-90	$3.42
1 1/4	EL125-90	$5.12
1 1/2	EL150-90	$8.03
2	EL200-90	$7.95
3	EL300-90	$40.45

Poly Street Elbow 90° MPT x FPT



Size (in.)	Part # Blk PP	Price
1/4	SL025-90	$2.63
3/8	SL038-90	$3.08
1/2	SL050-90	$2.81
3/4	SL075-90	$2.99
1	SL100-90	$3.54
1 1/4	SL125-90	$4.87
1 1/2	SL150-90	$6.91
2	SL200-90	$8.19
3	SL300-90	$41.71

Poly Street Elbow 45° MPT x FPT



Size (in.)	Part # Blk PP	Price
3/4	SL075-45	$5.78
1	SL100-45	$7.77
1 1/4	SL125-45	$9.62
1 1/2	SL150-45	$10.27
2	SL200-45	$11.06
3	SL300-45	$45.82

Poly Elbow 45° Threaded



Size (in.)	Part # Blk PP	Price
1	EL100-45	$11.05

Poly Pipe Tee Threaded



Size (in.)	Part # Blk PP	Price
1/4	TEE025	$3.43
3/8	TEE038	$3.54
1/2	TEE050	$3.11
3/4	TEE075	$3.33
1	TEE100	$4.81
1 1/4	TEE125	$6.65
1 1/2	TEE150	$7.95
2	TEE200	$9.91
3	TEE300	$47.20

Poly Swivel



Size (in.)	Part # Blk PP	Price
1	SW100	$12.12
1 1/2	SW150	$14.84
2	SW200	$16.65
2FP	SW220	$27.70

Poly Hose Barb Cross



Size (in.)	Part # Blk PP	Price
1/2x3/4	HBC050075	$13.58

Poly Elbow 90° HB



Size (in.)	Part # Blk PP	Price
1	HBEL100-90	$2.05

Poly Elbow 90° HB x MPT



Size (in.)	Part # Blk PP	Price
1 1/2x1	HBEL150/100-90	$18.65

Poly Hose Barb Tee HB X HB X HB



Size (in.)	Part # Blk PP	Price
1/4"	HBT025	$1.37
3/8X3/8X3/8	HBT038	$1.37
1/2X1/2X1/2	HBT050	$2.13
1/2X1/2X3/8	HBT050-038	$1.78
1/2X1/2X3/4	HBT050-075	$2.13
3/4X3/4X1/2	HBT075-050	$2.13
3/4X3/4X3/4	HBT075	$2.13
3/4X3/4X1	HBT075-100	$1.82
1X1X3/4	HBT100-075	$1.86
1X1X1	HBT100	$2.23
2X2X2	HBT200	$8.53
3X3X3	HBT300	$23.69

Poly Hose Barb Tee Threaded



Size (in.)	Part # Blk PP	Price
1	HBT100-100	$6.20
1 1/2x1	HBT150-100	$15.55
1 1/2	HBT150-150	$29.79

Poly 90° Hose Barb MPT x HB



Size (in.)	Part # Blk PP	Price
1/4x1/4	HB025-90	$1.22
1/4x3/8	HB025/038-90	$1.22
1/4x1/2	HB025/050-90	$1.22
3/8x/38	HB038-90	$1.22
1/2x3/8	HB050/038-90	$1.22
1/2x1/2	HB050-90	$1.22
1/2x3/4	HB050/075-90	$1.22
3/4x1/2	HB075/050-90	$1.54
3/4x3/4	HB075-90	$1.28
3/4x1	HB075/100-90	$1.54
1x3/4	HB100/075-90	$1.98
1x1	HB100-90	$1.57
1x1 1/4	HB100/125-90	$2.42
1 1/4x1	HB125/100-90	$2.42
1 1/4x1 1/4	HB125-90	$2.42
1 1/4x1 1/2	HB125/150-90	$6.97
1 1/2x1 1/4	HB150/125-90	$6.97
1 1/2x1 1/2	HB150-90	$5.81
2x1 1/2	HB200/150-90	$7.63
2x2	HB200-90	$6.36
3x3	HB300-90	$30.75

Poly Hose Mender



Size (in.)	Part # Blk PP	Price
1/4	HM025	$0.95
3/8	HM038	$1.14
1/2	HM050	$1.17
3/4	HM075	$1.26
1	HM100	$1.54
1 1/4	HM125	$1.73
1 1/2	HM150	$3.08
2	HM200	$3.87
3	HM300	$12.09

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Hose Barb Fittings

Plastic & Metal Hose Barb Fittings



- PVC
- CPVC
- PP
- PVDF



- Banjo HD Polypropylene



- Plated Steel
- 316 Stainless Steel
- Brass
- Aluminum

Features:

- Sizes: 1/2" - 12"
- Materials available: PVC, CPVC, PP, PVDF, Plated Steel, 316 Stainless Steel, Brass and Aluminum.
- All styles have male NPT - thread same size as hose: i.e. 2" nipple has 2" MPT and fits 2" ID hose.
- PVC available in MPT, Spigot, & Slip x HB connections.



BANJO Poly Straight Hose Barb MPT x HB

Size (in.)	Part #	Price $
1/4 x 1/4	HB025	1.02
1/4 x 3/8	HB025-038	0.75
1/4 x 1/2	HB025-050	0.89
3/8 x 3/8	HB038	1.11
3/8 x 1/4	HB038-025	0.80
3/8 x 1/2	HB038-050	0.80
1/2 x 1/2	HB050	0.92
1/2 x 1/4	HB050-025	0.80
1/2 x 3/8	HB050-038	0.80
1/2 x 3/4	HB050-075	0.89
3/4 x 3/8	HB075-038	0.89
3/4 x 1/2	HB075-050	0.89
3/4 x 5/8	HB075-058	1.09
3/4 x 3/4	HB075	1.01
3/4 x 1	HB075-100	1.09
1 x 3/4	HB100-075	1.09
1 x 1	HB100	1.25
1 x 1 1/14	HB100-125	1.34
1 1/4 x 3/4	HB125-075	1.34
1 1/4 x 1	HB125-100	1.34
1 1/4 x 1 1/4	HB125	1.84
1 1/4 x 1 1/2	HB125-150	2.57
1 1/2 x 1	HB150-100	2.01
1 1/2 x 1 1/4	HB150-125	2.01
1 1/2 x 1 1/2	HB150	2.57
1 1/2 x 2	HB150-200	3.45
2 x 1 1/2	HB200-150	3.45
2 x 2	HB200	3.14
3 x 3	HB300	10.13
4 x 4	HB400	25.47



PVC Hose Barb MPT x HB

Size (in.)	Part #	Price $
1/2	0947-005	1.01
3/4	0947-007	1.24
1	0947-010	1.28
1 1/4	0947-012	2.03
1 1/2	0947-015	2.27
2	0947-020	4.36
2 1/2	0947-025	17.89
3	0947-030	20.64
4	0947-040	28.69



CPVC Hose Barb MPT x HB

Size (in.)	Part #	Price $
1/2	0948-005	1.46
3/4	0948-007	1.78
1	0948-010	1.83
1 1/2	0948-015	3.27
2	0948-020	6.23



PVDF Hose Barb MPT x HB

Size (in.)	Part #	Price $
1/2	0949-005	32.24
3/4	0949-007	31.41
1	0949-010	34.54
1 1/4	0949-012	35.25
1 1/2	0949-015	35.25
2	0949-020	49.86
3	0949-030	79.74



PVC Hose Barb Slip x HB

Size (in.)	Part #	Price $
1 1/2	1474-015	8.62
2	1474-020	13.55



BANJO Poly Straight Hose Barb FPT x HB

Size (in.)	Part #	Price $
3/4	HBF075	3.01
3/4 x 1	HBF075-100	2.51
1	HBF100	2.12

All prices in catalog are subject to change without notice.



PVC Hose Barb Spg x HB

Size (in.)	Part #	Price $
1/2	1432-005	2.38
3/4	1432-007	3.13
1	1432-010	3.27
1 1/4	1432-012	3.37
1 1/2	1432-015	3.62
2	1432-020	6.02
2 1/2	1432-025	18.72
3	1432-030	20.34
4	1432-040	23.41



Plated Steel Hose Barb MPT x HB

Size (in.)	Part #	Price $
1/2	0942-005	5.85
3/4	0942-007	6.55
1	0942-010	8.65
1 1/4	0942-012	11.80
1 1/2	0942-015	12.15
2	0942-020	14.75
2 1/2	0942-025	27.05
3	0942-030	33.30
4	0942-040	47.65
5	0942-050	104.20
6	0942-060	124.95
8	0942-080	232.60
10	0942-100	386.50
12	0942-120	554.65



BANJO SS Hose Barb MPT x HB

Size (in.)	Part #	Price $
1/4 x 1/4	HB025SS	12.91
1/4 x 3/8	HB025-038SS	9.99
1/4 x 1/2	HB025-050SS	9.99
3/8 x 3/8	HB038SS	11.73
3/8 x 1/2	HB038-050SS	11.24
1/2 x 1/2	HB050SS	14.69
1/2 x 5/8	HB050-058SS	14.61
1/2 x 3/4	HB050-075SS	14.61
3/4 x 1/2	HB075-050SS	14.61
3/4 x 3/4	HB075SS	17.17
3/4 x 1	HB075-100SS	20.43
1 x 3/4	HB100-075SS	20.43
1 x 1	HB100SS	24.00
1 1/4 x 1 1/4	HB125SS	35.98
1 1/2 x 1 1/2	HB150SS	37.27
2 x 2	HB200SS	44.05
3 x 3	HB300SS	115.43



304 SS Male Adapter Round / MIP x INS

Size (in.)	# Barbs	Part #	Price $
1/2	6	IMASS50	7.11
3/4	6	IMASS75	7.11
1	7	IMASS100	12.18
1 1/4	7	IMASS125	14.14
1 1/2	9	IMASS150	20.14
2	9	IMASS200	27.93



316 SS Male Insert Adapter Hex / MIP x INS

Size (in.)	# Barbs	Part #	Price $
1/2	6	SS12-1/2	20.01
3/4	7	SS12-3/4	19.49
1	7	SS12-1	22.08
1 1/4	6	SS12-11/4	36.20
1 1/2	6	SS12-11/2	49.01
2	7	SS12-2	64.41



Stainless Steel Coupling Round / INS x INS

Size (in.)	# Barbs	Steel	Part #	Price $
1/2	6	304	ICSS50	5.75
3/4	6	304	ICSS75	6.21
1	7	304	ICSS100	12.46
1 1/4	7	304	ICSS125	14.29
1 1/2	9	304	ICSS150	22.07
2	9	304	ICSS200	32.36
1	7	316	SS10-1	31.50
1 1/4	7	316	SS10-11/4	41.64
1 Extra Long	14	316	XSS10-1	56.98



316 SS Hose Barb Tee

Description	Part #	Price $
3/4" HB x 3/4" HB x 1/2" HB Tee	HBT075-050SS	25.91

Hose Clamps



Herbie Clips
Nylon Double Bond Hose Clamps

- Made of U.L. -listed, durable, black Nylon 6-6: will not rust or corrode
- Easy to install, remove, & reuse—can be installed & removed with hose in place
- Handles temperatures from -40°F to 302°F
- Handles most moderate non-hydraulic pressure applications
- Patented double row of teeth ensures a strong bond that will not vibrate loose

* Note: Limited availability - lead time & minimum may apply.

Nom. OD (IN.)	Max. (IN.)	Min. (IN.)	Band Width	Band Thick.	Part #	Price
1/4	.276	.220	.165	.051	6124-100	$ .28
5/16	.323	.256	.181	.063	6124-101	.28
3/8	.382	.319	.185	.063	6124-102	.29
13/32	.433	.358	.185	.063	6124-103	.29
7/16	.500	.413	.228	.067	6124-104	.29
1/2	.583	.480	.240	.067	6124-105	.33
9/16	.646	.524	.295	.087	6124-106	.38
5/8	.717	.594	.284	.083	6124-107	.38
11/16	.795	.673	.280	.083	6124-108	.38
3/4	.870	.732	.287	.083	6124-109	.39
7/8	.949	.803	.284	.083	6124-110	.44
15/16	1.031	.886	.284	.083	6124-111	.46
1	1.130	.976	.284	.083	6124-112	.47
1 1/8	1.220	1.055	.299	.091	6124-113	.51
1 1/4	1.319	1.150	.362	.083	6124-114	.67
1 3/8	1.437	1.283	.366	.087	6124-115	.74

Nom. OD (IN.)	Max. (IN.)	Min. (IN.)	Band Width	Band Thick.	Part #	Price
1 1/2	1.551	1.382	.358	.083	6124-116	$ .75
1 9/16	1.665	1.496	.362	.083	6124-117	.75
1 5/8	1.772	1.610	.362	.083	6124-118	.78
1 3/4	1.913	1.744	.358	.083	6124-119	.79
1 7/8	2.028	1.843	.358	.083	6124-120	.85
2	2.146	1.965	.362	.083	6124-121	.85
2 1/8 *	2.283	2.091	.362	.083	6124-122	.90
2 1/4 *	2.398	2.161	.366	.091	6124-123	.94
2 1/2 *	2.579	2.327	.366	.098	6124-124	1.26
2 3/4 *	2.831	2.591	.362	.102	6124-125	1.99
2 7/8 *	3.008	2.756	.358	.102	6124-126	2.01
3 *	3.201	2.941	.358	.102	6124-127	2.05
3 1/4 *	3.366	3.142	.354	.126	6124-128	2.11
3 1/2 *	3.567	3.350	.350	.102	6124-129	2.17
4 *	4.083	3.787	.350	.102	6124-130	2.21
4 1/4 *	4.413	4.146	.350	.102	6124-131	2.25

Tiger Clamps™ Spiral Double Bolt Clamps for Counterclockwise Helix Hoses / Series SDBC



Features:
- Zinc plated carbon steel.
- Two or more Tiger-Clamps™ are suggested for 3" ID and larger hoses.
- Both hex nuts should be tightened equally to prevent leakage.
- Caution: proper evaluation of holding power for each clamp must be determined for each individual application.

Fits Hose ID (In.)	Part #	Price $	Fits Hose ID (In.)	Part #	Price $
1 1/2	5706-015	3.93	5	5706-050	8.80
2	5706-020	4.47	6	5706-060	11.63
2 1/2	5706-025	4.88	8	5706-080	15.76
3	5706-030	5.65	10	5706-100	17.72
4	5706-040	6.99	12	5706-120	24.86

Banjo Two Barrel Hardware Clamps



Features:
- 300 Stainless steel construction.
- Deep socket tools not required.
- Minimizes parts that protrude by tightening together versus tightening away from.
- Perfect for tight, hard to reach spaces!

Two Barrel Hardware Clamps

Description	Min/Max Diameter	Max Torque	Part #	Price $
3/4" 300 SS Floating Bridge with Lockwasher	0.91"/0.98"	75 in-lbs	BC090	9.56
1" 300 SS Floating Bridge with Lockwasher	1.14"/1.22"	75 in-lbs	BC114	9.67

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SS Hose Clamps

Stainless Steel Hose Clamps

Style HS Clamps



Combination 5/16" Hexagon and Screw-driver Slotted Screw
SAE 300 series stainless band and housing
SAE 1018 steel case hardened zinc plated and chromate dip screw

Style HSS Clamps



All stainless construction 5/16" Hexagon and Screwdriver Slotted Screw
Marine Grade SAE 300 series stainless band and housing
with SAE 305 series stainless screw

DIAM. RANGE (IN.)						
	From:	To:	Part #	Price each	Part #	Price each
1/2" Band Width	7/16	25/32	HS6	1.50	HSS6	2.00
	1/2	29/32	HS8	1.50	HSS8	2.00
	7/16	1 1/16	HS10	1.50	HSS10	2.00
	11/16	1 1/4	HS12	1.55	HSS12	2.00
	13/16	1 1/2	HS16	1.55	HSS16	2.00
	13/16	1 3/4	HS20	1.55	HSS20	2.05
	1 1/16	2	HS24	1.55	HSS24	2.05
	1 5/16	2 1/4	HS28	1.60	HSS28	2.05
	1 9/16	2 1/2	HS32	1.60	HSS32	2.05
	1 13/16	2 3/4	HS36	1.65	HSS36	2.15
	2 1/16	3	HS40	2.00	HSS40	2.45
	2 5/16	3 1/4	HS44	2.20	HSS44	2.80
	2 9/16	3 1/2	HS48	2.20	HSS48	2.80
	2 13/16	3 3/4	HS52	2.40	HSS52	2.95
	3 1/16	4	HS56	2.40	HSS56	2.95
	3 5/16	4 1/4	HS60	2.50	HSS60	3.00
	3 9/16	4 1/2	HS64	2.50	HSS64	3.00
	4 1/8	5	HS72	2.70	HSS72	3.30
	4 5/8	5 1/2	HS80	3.10	HSS80	3.40
	5 1/8	6	HS88	3.20	HSS88	3.75
	5 5/8	6 1/2	HS96	3.25	HSS96	3.85
	6 1/8	7	HS104	3.30	HSS104	3.35
9/16" Band Width	5 5/8	8 1/2	HS128	4.90	HSS128	5.25
	7 1/8	10	HS152	5.25	HSS152	5.80
	9 3/8	12 1/4	HS188	5.75	HSS188	6.35
	10 1/8	13	HS200	5.80	HSS200	6.80
	10 7/8	13 3/4	HS212	5.90	HSS212	7.15
	11 5/8	14 1/2	HS224	6.55	HSS224	7.60
	12 3/8	15 1/4	HS236	7.10	HSS236	8.40
	13 1/8	16	HS248	7.45	HSS248	9.40
	17 1/8	20	HS312	9.10	HSS312	10.75

Max. Recommended Torque 30 in. lbs. Meets SAEJ1508.



*Other sizes available. Contact Sales Office

Banjo Super Clamps SS (T-Bolt Hose Clamp)

Part #	Hose I.D.	Min. Dia.	Max. Dia.	Price
TC120	1”	1.20”	1.34”	$6.64
TC130	1 1/4”	1.30”	1.70”	$7.30
TC150	1 1/2”	1.50”	1.75”	$7.37
TC162	1 1/4’	1.62”	1.87”	$6.70
TC181	1 1/2”	1.81”	2.06”	$6.70
TC193	1 1/2”	1.93”	2.18”	$6.89
TC206	2”	2.06”	2.40”	$7.72
TC218	2”	2.18”	2.50”	$6.89
TC224	2”	2.24”	2.55”	$7.72
TC231	2”	2.31”	2.62”	$7.02
TC250	2”	2.50”	2.81”	$7.72
TC287	2”	2.87”	3.18”	$7.72
TC312	3”	3.12”	3.49”	$7.90
TC331	3”	3.31”	3.62”	$7.50
TC343	3”	3.43”	3.75”	$7.50
TC425	4”	4.25”	4.56”	$8.93
TC438	4”	4.38”	4.76”	$14.89
TC456	4”	4.56”	4.94”	$14.89

Features

- All stainless steel construction.
- SS nut with silver plating.
- 360° sealing surface.
- Ideal for high torque applications.
- Strong, positive connections.
- Nylon lock feature.
- 3 spot welds for extra strength

Bulkhead Fittings

Hayward BFA Series Bulkhead Fittings - Standard Flange



Hayward BFA Series bulkhead fittings offer a longer shaft for thicker tank walls and easy one-person installation.

Features:
- PVC, CPVC and PP
- Extra Long Design for Thick Tank Walls
- Left-Hand Threads
- Rated at 150 PSI
- FPM or EPDM Gasket Seal
- Hex Body for One-Person Installation
- Full Buttress Threads

Options:
- Vacuum Breaker
- Ready Flanges (for Making Flanged Connections to Tanks)
- Tank-Tite™

Size (in.)	Hole Saw Size (in.)
1/2	1.38
3/4	1.63
1	1.88
1 1/4	2.63
1 1/2	2.63
2	3.25
3	4.50
4	5.75
6	8.00

NSF®

PVC / EPDM

PVC / EPDM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/2	3473-SXT	3473-SXS	14.32	3473-TXT	18.41
3/4	3474-SXT	3474-SXS	15.82	3474-TXT	20.25
1	3475-SXT	3475-SXS	17.33	3475-TXT	21.88
1 1/4	3476-SXT	3476-SXS	23.00	3476-TXT	29.73
1 1/2	3477-SXT	3477-SXS	23.00	3477-TXT	31.56
2	3478-SXT	3478-SXS	34.24	3478-TXT	42.00
3	3479-SXT	3479-SXS	63.96	3479-TXT	74.48
4	3480-SXT	3480-SXS	125.75	3480-TXT	140.53
6	3481-SXT	3481-SXS	328.45	3481-TXT	328.45

CPVC / EPDM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/2	3484-E	3484-ES	19.25	3484-ET	24.30
3/4	3485-E	3485-ES	22.80	3485-ET	28.31
1	3486-E	3486-ES	26.14	3486-ET	31.19
1 1/4	3487-E	3487-ES	35.53	3487-ET	47.89
1 1/2	3488-E	3488-ES	35.53	3488-ET	47.89
2	3489-E	3489-ES	50.18	3489-ET	59.62
3	3490-E	3490-ES	88.18	3490-ET	102.75
4	3491-E	3491-ES	148.46	3491-ET	163.28
6	3492-E	3492-ES	441.01	3492-ET	441.01

PP / EPDM

Size (in.)	Thr. x Thr. Mfg Part #	Price $
1/2	3495-E	24.97
3/4	3496-E	29.89
1	3497-E	38.41
1 1/4	3498-E	48.85
1 1/2	3499-E	48.85
2	3500-E	75.86
3	3501-E	152.26
4	3502-E	284.86
6	3503-E	432.66

PVC / FPM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/2	3211-SXT	3211-SXS	22.88	3211-TXT	27.01
3/4	3212-SXT	3212-SXS	24.67	3212-TXT	28.97
1	3213-SXT	3213-SXS	28.18	3213-TXT	32.69
1 1/4	3214-SXT	3214-SXS	33.73	3214-TXT	39.45
1 1/2	3215-SXT	3215-SXS	33.73	3215-TXT	42.21
2	3216-SXT	3216-SXS	55.78	3216-TXT	63.79
3	3217-SXT	3217-SXS	100.41	3217-TXT	111.10
4	3218-SXT	3218-SXS	258.18	3218-TXT	272.84
6	3219-SXT	3219-SXS	502.67	3219-TXT	502.67

CPVC / FPM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/2	3484-V	3484-VS	27.85	3484-VT	34.94
3/4	3485-V	3485-VS	31.56	3485-VT	39.29
1	3486-V	3486-VS	36.78	3486-VT	41.88
1 1/4	3487-V	3487-VS	46.22	3487-VT	62.12
1 1/2	3488-V	3488-VS	46.22	3488-VT	62.12
2	3489-V	3489-VS	71.77	3489-VT	80.95
3	3490-V	3490-VS	124.67	3490-VT	141.37
4	3491-V	3491-VS	278.47	3491-VT	299.51
6	3492-V	3492-VS	816.67	3492-VT	819.67

PP / FPM

Size (in.)	Thr. x Thr. Mfg Part #	Price $
1/2	3495-V	32.94
3/4	3496-V	38.41
1	3497-V	49.35
1 1/4	3498-V	59.62
1 1/2	3499-V	59.62
2	3500-V	97.44
3	3501-V	174.26
4	3502-V	306.82
6	3503-V	801.31

Hayward BFA Series Bulkhead Fittings - Oversized Flange



Hayward BFA Series bulkhead fittings offer a longer shaft for thicker tank walls, oversized flange base and easy one-person installation.

Features:
- PVC, CPVC and PP
- Oversized Flange Base
- Extra Long Design for Thick Tank Walls
- Left-Hand Threads
- Rated at 150 PSI
- FPM or EPDM Gasket Seal
- Hex Body for One-Person Installation
- Full Buttress Threads

Options:
- Ready Flanges (for Making Flanged Connections to Tanks)
- Tank-Tite™

Size (in.)	Hole Saw Size (in.)
1/2	1.38
3/4	1.63
1	1.90

PVC / EPDM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Thr. x Thr. Mfg Part #	Price $
1/2	BFA1005CEL	BFA1005SEL	BFA1005TEL	19.62
3/4	BFA1007CEL	BFA1007SEL	BFA1007TEL	21.50
1	BFA1010CEL	BFA1010SEL	BFA1010TEL	23.38

CPVC / EPDM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Thr. x Thr. Mfg Part #	Price $
1/2	BFA2005CEL	BFA2005SEL	BFA2005TEL	26.76
3/4	BFA2007CEL	BFA2007SEL	BFA2007TEL	31.10
1	BFA2010CEL	BFA2010SEL	BFA2010TEL	34.44

PP / EPDM

Size (in.)	Thr. x Thr. Mfg Part #	Price $
1/2	BFA3005TEL	26.76
3/4	BFA3007TEL	31.98
1	BFA3010TEL	40.96

PVC / FPM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Thr. x Thr. Mfg Part #	Price $
1/2	BFA1005CFL	BFA1005SFL	BFA1005TFL	28.81
3/4	BFA1007CFL	BFA1007SFL	BFA1007TFL	30.98
1	BFA1010CFL	BFA1010SFL	BFA1010TFL	34.86

CPVC / FPM

Size (in.)	Soc. x Thr. Mfg Part #	Soc. x Soc. Mfg Part #	Thr. x Thr. Mfg Part #	Price $
1/2	BFA2005CFL	BFA2005SFL	BFA2005TFL	38.49
3/4	BFA2007CFL	BFA2007SFL	BFA2007TFL	43.13
1	BFA2010CFL	BFA2010SFL	BFA2010TFL	46.01

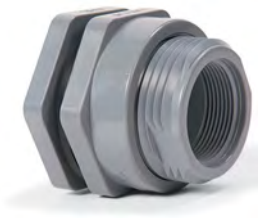
PP / FPM

Size (in.)	Thr. x Thr. Mfg Part #	Price $
1/2	BFA3005TFL	35.11
3/4	BFA3007TFL	40.96
1	BFA3010TFL	52.61

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Bulkhead Fittings

Hayward BFAS Series Bulkhead Fittings - Standard Flange



Hayward BFAS Series bulkhead fittings have a shorter shaft length than the BFA.

Features:
- Short Pattern/Barrel in PVC, CPVC and PP
- FPM or EPDM Gasket Seal
- Left-Hand Threads
- Buttress Threads Protect Against Blowout
- Hex Body for One-Person Installation
- Rated at 150 PSI

Options:
- Vacuum Breaker
- Ready Flanges (for Making Flanged Connections to Tanks)
- Tank-Tite™

NSF®

1/2" - 3"
PVC / EPDM

PVC / EPDM

Size (in.)	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/2	S3473-SXT	14.32	S3473-TXT	18.41
3/4	S3474-SXT	15.82	S3474-TXT	20.25
1	S3475-SXT	17.33	S3475-TXT	21.88
1 1/4	S3476-SXT	23.00	S3476-TXT	29.73
1 1/2	S3477-SXT	23.00	S3477-TXT	31.56
2	S3478-SXT	34.24	S3478-TXT	42.00
3	S3479-SXT	63.96	S3479-TXT	74.48
4	S3480-SXT	125.75	S3480-TXT	140.53

CPVC / EPDM

Size (in.)	Soc. x Thr. Mfg Part #	Price $
1/2	S3484-E	19.25
3/4	S3485-E	22.80
1	S3486-E	26.14
1 1/4	S3487-E	28.47
1 1/2	S3488-E	35.53
2	S3489-E	50.18
3	S3490-E	88.18
4	S3491-E	148.46

PP / EPDM

Size (in.)	Thr. x Thr. Mfg Part #	Price $
1/2	S3495-E	24.97
3/4	S3496-E	29.89
1	S3497-E	38.41
1 1/4	S3498-E	48.85
1 1/2	S3499-E	48.85
2	S3500-E	75.86
3	S3501-E	152.26
4	S3502-E	284.86

Size (in.)	Hole Saw Size (in.)
1/2	1.38
3/4	1.63
1	1.88
1 1/4	2.63
1 1/2	2.63
2	3.25
3	4.50
4	5.75

PVC / FPM

Size (in.)	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/2	S3211-SXT	22.88	S3211-TXT	27.01
3/4	S3212-SXT	24.67	S3212-TXT	28.97
1	S3213-SXT	28.18	S3213-TXT	32.69
1 1/4	S3214-SXT	33.73	S3214-TXT	39.45
1 1/2	S3215-SXT	33.73	S3215-TXT	42.21
2	S3216-SXT	55.78	S3216-TXT	63.79
3	S3217-SXT	99.41	S3217-TXT	110.05
4	S3218-SXT	255.68	S3218-TXT	270.21

CPVC / FPM

Size (in.)	Soc. x Thr. Mfg Part #	Price $
1/2	S3484-V	27.85
3/4	S3485-V	31.56
1	S3486-V	36.78
1 1/4	S3487-V	37.07
1 1/2	S3488-V	46.22
2	S3489-V	71.77
3	S3490-V	124.67
4	S3491-V	278.47

PP / FPM

Size (in.)	Thr. x Thr. Mfg Part #	Price $
1/2	S3495-V	32.94
3/4	S3496-V	38.41
1	S3497-V	49.35
1 1/4	S3498-V	59.62
1 1/2	S3499-V	59.62
2	S3500-V	97.44
3	S3501-V	174.26
4	S3502-V	306.82

Hayward SF Series Self-Aligning Bulkhead Fittings





Hayward SF Series self-aligning bulkhead fittings allows for connections to the top of domed tanks, or pipes at an angle up to 27 degrees.

Features:
- PVC
- Enables Easy Piping Connections to Domed Tanks
- Swivel Ball Connection Corrects for Curved Tanks
- Enables Straight Pipe Connections up to 27° of Offset Angle
- PTFE Ball Seal
- EPDM Gasket Seal
- FPM Gasket Seal is available

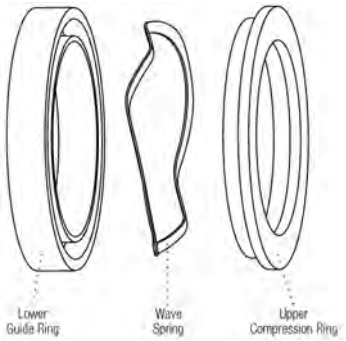
PVC / EPDM

Size (in.)	Flanged Mfg Part #	Price $
1	3504	134.35
2	3505	203.85
3	3506	315.45

Size (in.)	Hole Saw Size (in.)
1	3.25
2	4.50
3	5.72

Hayward CCP Series Tank-Tite™





Revolutionary patented design PVC compression spring system provides a constant load on the gasket of Hayward bulkhead fittings to overcome, and compensate for tank/wall expansion & contraction due to changes in temperature and/or pressure within the tank.

Features:
- Robust PVC Upper and Lower Body Construction
- 17.4 PH Stainless Steel Wave Spring
- Rated to 150 PSI
- Fits with Hayward® BFAS/BFA Series Bulkhead Fittings
- Can be Used with All Bulkhead Fitting Materials

PVC

Size (in.)	Mfg Part #	Price $
1/2	CCP1005	17.33
3/4	CCP1007	20.29
1	CCP1010	21.42
1 1/4 - 1 1/2	CCP1015	31.02
2	CCP1020	35.65
3	CCP1030	57.82

Bulkhead Fittings

Hayward Bulkhead Gaskets



The complete line of Hayward bulkhead fittings are offered with gasket replacements in EPDM and FPM to meet your process requirements.

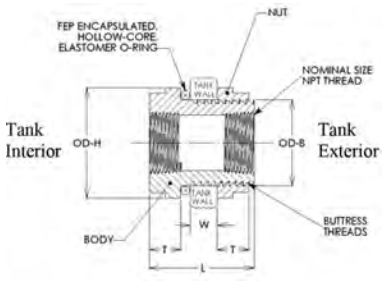
EPDM and FPM Replacement Gaskets

Size (in.)	EPDM Part #	Price $	FPM Part #	Price $
1/2	3456-005	2.88	3457-005	11.77
3/4	3456-007	2.88	3457-007	12.69
1	3456-010	3.80	3457-010	14.70
1 1/4	3456-012	3.51	3457-012	14.70
1 1/2	3456-015	3.51	3457-015	14.70
2	3456-020	7.18	3457-020	32.23
3	3456-030	8.98	3457-030	41.96
4	3456-040	32.02	3457-040	151.30
6	3456-060	34.11	3457-060	160.95

FLUOR-O-FLO® Tank Adapters

Micromold's FLUOR-O-FLO® tank adapters allow quick, easy connection of our Schedule 80 PTFE threaded pipe system, or any NPT pipe system to tanks of any material: plastic, metal, or lined. The fittings can be installed without adapters in either flat wall tanks, or many cylindrical tanks. PTFE fittings have NPT connections. Fittings are also available in PVDF. The PVDF fittings are available with both NPT and socket weld connections. All fittings are made from natural virgin materials. To maximize creep resistance, our PTFE bulkhead fittings are made from MICROFLON™ low-creep virgin PTFE. Standard fittings are supplied with PTFE FEP-encapsulated hollow-core silicone o-rings. PFA encapsulated hollow-core silicone o-rings, PFA encapsulated FPM, or other o-ring materials can be supplied.





PTFE and PVDF Fittings

Size (in.)	Nom. Body OD (in.)	Hole Saw Size (in.)	PTFE Part #	Price $	PVDF Part #	Price $
1/8	1 1/8	1 1/8*	7123	126.06	N/A	N/A
1/4	1 3/16	1 3/16*	7124	144.20	N/A	N/A
3/8	1 9/32	1 9/32*	7125	179.09	7135	208.04
1/2	1 1/2	1 1/2*	7126	207.61	7136	242.82
3/4	1 3/16	1 3/16*	7127	239.78	7137	281.01
1	2 1/6	2 1/6*	7128	304.20	7138	381.60
1 1/4	2 3/8	2 3/8*	7129	347.27	7139	489.34
1 1/2	2 5/8	2 5/8*	7130	396.92	7140	543.29
2	3 1/8	3 1/8*	7131	433.53	7141	701.05
2 1/2	3 5/8	3 5/8*	7132	543.64	N/A	N/A
3	4 1/2	4 1/2*	7133	685.81	N/A	N/A
4	5 1/2	5 1/2*	7134	985.90	N/A	N/A

*Hole through tank wall should be equal to or up to 1/32" larger than the nominal body OD.

Century Composites Fiberglass Bulkhead Fittings



Features:

- Thermoset components designed for brine tank oil field applications
- Buttress threads for superior strength on the outside lock nut
- Molded threads inside and out, for easier and more sure connections
- Molded gasket to prevent leaks in tank side walls of various thickness
- Pressure Rating: 150 psi
- Reinforcement is with short glass fiber
- Construction: Compression Molded (BMC)
- Standard Resin: Isophthalic Polyester
- Threads: Internal are NPT molded female threads
- Threads: External are Buttress, left hand threads
- EPDM gaskets standard, Vinyl Ester gaskets by special order

Isophthalic Polyester / EPDM

Size (in.)	Hole Saw Size (in.)	Thr. x Thr. Mfg Part #	Price $
1	2 1/8	42040-100	109.00
1 1/2	2 3/4	42040-150	112.00
2	3 3/8	42040-200	120.00
3	4 1/4	42040-300	190.00
4	5 5/8	42040-400	230.00

Norwesco Bulkhead Fittings

Norwesco's polypropylene fittings come standard with an EPDM gasket. FPM gaskets are available as an option when EPDM may not be suitable for your application.



Norwesco Bulkhead Fittings

Size (in.)	Description	Hole Size Saw (in.)	Image	Mfg Part #	Price $
1/2	Heavy duty double threaded polypropylene	1 7/16	A	62834	4.14
3/4	Double threaded polypropylene	1 7/16	A	60401	3.23
3/4	Heavy duty double threaded polypropylene	1 5/8	A	62798	4.29
1	Double threaded polypropylene	2 1/4	A	60427	4.14
1 1/4	Double threaded polypropylene	2 1/4	A	60403	4.05
1 1/4	Anti-vortex polypropylene	2 1/4	D	63065	5.18
1 1/2	Standard duty double threaded polypropylene	2 1/4	A	63931	5.26
1 1/2	Double threaded polypropylene	3	A	60124	6.20
2	Double threaded polypropylene	3	A	60405	5.90
2	Double threaded 316 stainless steel	3	N/A	61767-E	124.70
2	Standard duty double threaded polypropylene	3	E	63481	5.08
2	Heavy duty double threaded polypropylene	3 1/4	B	63683	10.48
2	Self-aligning double threaded polypropylene	4 1/2	N/A	63668	87.99
3	Double threaded polypropylene	4 1/2	C	62299	31.69
4	Double threaded polypropylene	5 3/4	C	62171	98.62

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 012119

Bulkhead Fittings

Banjo Poly Bolted Tank Flanges



Features:
- Stainless steel bolts.
- Bolt head plugs sealed ultrasonically.
- Glass reinforced polypropylene.
- EPDM gaskets standard & FPM available.

PP / EPDM & FPM

Size (in.)	EPDM		FPM	
	Mfg Part #	Price $	Mfg Part #	Price $
3/4 x 1	BF075	43.79	BF075V	69.44
1 x 1	BF100	43.79	BF100V	49.44
1 1/4 x 1	BF125	43.86	N/A	N/A
1 1/2 x 2	BF150	35.92	BF150V	96.15
2 x 2	BF200	29.93	BF200V	99.52
2 x 2 FP	BF220	46.98	BF220V	99.52
3 x 3	BF300	53.43	BF300V	150.41

Bolted Tank Flange Gaskets

Size (in.)	EPDM		FPM	
	Mfg Part #	Price $	Mfg Part #	Price $
1	BF100GE	2.96	BF100GV	29.99
1 1/2 - 2	BF200GE	5.65	BF200GV	24.23
2	BF220GE	13.48	BF220GV	55.69
3	BF300GE	14.34	BF300GV	108.50

Banjo Poly Bolted "Bottom Drain" Tank Flanges



PP / EPDM & FPM

Size (in.)	EPDM		FPM	
	Mfg Part #	Price $	Mfg Part #	Price $
3/4 x 1	BF075BD	43.79	BF075BDV	55.29
1 x 1	BF100BD	43.79	BF100BDV	55.29
1 1/4 x 1	BF125BD	36.49	BF125BDV	53.42
1 1/2 x 2	BF150BD	41.65	BF150BDV	105.06
2 x 2	BF200BD	41.65	BF200BDV	99.52
2 x 2 FP	BF220BD	46.98	BF220BDV	105.06
3 x 3	BF300BD	64.71	BF300BDV	160.35

Bolted "Bottom Drain" Tank Flange Gaskets

Size & Description	EPDM		FPM	
	Mfg Part #	Price $	Mfg Part #	Price $
3/4, 1 & 1 1/4 Full	BF100GE	2.81	BF100GV	28.41
3/4, 1 & 1 1/4 Foot	BF100GRE	1.15	BF100GRV	6.15
1 1/2 & 2 Full	BF200GE	6.58	BF200GV	22.95
1 1/2 & 2 SP, 2 FP Foot	BF200GFE	2.17	BF200GFV	6.15
2 FP	BF220GE	15.69	BF220GV	52.76
3 Full	BF300GE	16.71	BF300GV	102.77
3 Foot	BF300GFE	4.70	BF300GFV	9.76

Features:
- Stainless steel bolts. Longer bolts available.
- Bolt head plugs sealed ultrasonically.
- Glass reinforced polypropylene.
- EPDM gaskets standard & FPM available.

Advantages:
- Allows 100% Rinse Free - No Sediment Build Up!
- Excellent for avoiding herbicide cross contamination!
- Bolted design for superior strength!
- Fits most cone bottom & chemical inductor tanks, 30 gallons and larger.

Banjo Bulkhead Tank Fittings



Black Poly / EPDM & FPM

Size (in.)	Hole Saw Size (in.)	EPDM		FPM	
		Mfg Part #	Price $	Mfg Part #	Price $
1/2	1 5/8	TF050	7.91	TF050V	15.48
3/4	1 5/8	TF075	7.91	TF075V	15.48
1	2 1/4	TF100	9.42	TF100V	20.68
1 1/4	2 1/4	TF125	10.97	TF125V	20.68
1 1/2	3	TF150	16.86	TF150V	25.43
2	3	TF200	16.86	TF200V	28.76
2	3 1/4	TF220	21.57	TF220V	52.08
3	4 1/2	TF300	36.15	TF300V	69.94
4	5 3/4	TF400	98.81	TF400V	163.24



316 Stainless Steel / EPDM

Size (in.)	Hole Saw Size (in.)	Thr. x Thr. Part #	Price $
3/8	1	TF038SS	78.15
1/2	1 3/8	TF050SS	103.58
3/4	1 5/8	TF075SS	154.10
1	2 1/4	TF100SS	187.58
1 1/4	2 1/4	TF125SS	187.58
1 1/2	3	TF150SS	235.64
2	3	TF200SS	235.64
2	3 1/4	TF220SS	248.72
3	4 3/8	TF300SS	381.08

Features:
- Double sided female NPT threads.
- Available with EPDM or FPM gasket.

Bulkhead Tank Gaskets

Size (in.)	Hole Saw Size (in.)	Fits Poly	Fits SS	EPDM Mfg Part #	Price $	FPM Mfg Part #	Price $
3/8	1		TF038SS	100G	.71	100GV	8.32
1/2	1 3/8		TF050SS			TF138GV	10.74
1/2 - 3/4	1 5/8	TF050 & TF075	TF075SS	150G	.76	150GV	8.66
1 - 1 1/4	2 1/4	TF100 & TF125	TF100SS & TF125SS	200G	.80	200GV	13.41
1 1/2 - 2	3	TF150 & TF200	TF150SS & TF200SS	300G	1.09	300GV	18.40
2	3 1/4	TF220	TF220SS	TF220G	4.70	TF220GV	41.49
3	4 1/2	TF300	TF300SS	TF300G	7.59	TF300GV	35.80
4	5 3/4	TF400		TF400G	17.82	TF400GV	75.22

Poly Tank Nuts

Size (in.)	Mfg Part #	Price $
1/2 - 3/4	TF073	5.42
1 - 1 1/4	TF103	3.69
1 1/2 - 2	TF153	3.69
2	TF223	11.21
3	TF303	18.44
4	TF403	39.84

Banjo Anti Vortex Fittings



Anti Vortex Vent Cap

Size (in.)	Description	Mfg Part #	Price $
2	With 12 Mesh 304SS Screen	VC230	15.37
2	Without Screen	VC200	13.49
3	Without Screen	VC300	21.29
3	With 10 Mesh 304SS Screen	VC330	25.99

Features:
- Male NPT.
- Glass reinforced polypropylene.
- 304 stainless steel screen (optional).



Anti Vortex Tank Flange

Size (in.)	Hole Saw Size (in.)	Mfg Part #	Price $
1	2 1/4	TF100AV	20.67
1 1/4	2 1/2	TF125AV	20.67
1 1/2	3	TF150AV	25.84
2	3	TF200AV	25.84

Features:
- Standard with FKM.
- Prevents swirl in bottom of tank.

Spears® New Style Standard Tank Adapters



Designed to facilitate connections through tank or bulkhead walls. Available in PVC or CPVC with socket x socket, socket x thread or thread x thread end connections.

Tank Adapters in sizes through 4" are designed for use with Nut & Body Spanner Wrench Sets on the outside connection to aid both installation and in make-up of external threaded connections.

Features:
- PVC and CPVC
- Neoprene, EPDM or FPM Gaskets
- Rated at 150 psi @ 73°F (23°C)

Size (in.)	Hole Saw Size (in.)	Size (in.)	Hole Saw Size (in.)
1/4	1 1/16	2	3 3/8
3/8	1 3/16	2 1/2	3 7/8
1/2	1 1/2	3	4 5/8
3/4	1 3/4	4	5 1/2
1	2	6	8
1 1/4	2 3/8	8	10 3/8
1 1/2	2 3/4		

PVC New Style Standard with Neoprene Gaskets

Size (in.)	Soc. x Soc. Mfg Part #	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/4	8170-002	8171-002	14.27	8172-002	19.17
3/8	8170-003	8171-003	14.27	8172-003	19.17
1/2	8170-005	8171-005	14.27	8172-005	19.17
3/4	8170-007	8171-007	16.27	8172-007	21.02
1	8170-010	8171-010	18.07	8172-010	22.98
1 1/4	8170-012	8171-012	21.77	8172-012	30.65
1 1/2	8170-015	8171-015	23.89	8172-015	33.40
2	8170-020	8171-020	35.41	8172-020	43.98
2 1/2	8170-025	8171-025	54.72	8172-025	64.38
3	8170-030	8171-030	65.14	8172-030	76.64
4	8170-040	8171-040	128.31	8172-040	143.61
6	8170-060	8171-060	249.07	8172-060	287.39
8	8170-080	N/A	552.73	N/A	N/A

CPVC New Style Standard with Neoprene Gaskets

Size (in.)	Soc. x Soc. Mfg Part #	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/4	8170-002C	8171-002C	20.08	8172-002C	26.82
3/8	8170-003C	8171-003C	20.08	8172-003C	26.82
1/2	8170-005C	8171-005C	20.08	8172-005C	26.82
3/4	8170-007C	8171-007C	23.89	8172-007C	30.96
1	8170-010C	8171-010C	26.82	8172-010C	33.87
1 1/4	8170-012C	8171-012C	34.20	8172-012C	47.82
1 1/2	8170-015C	8171-015C	37.24	8172-015C	52.26
2	8170-020C	8171-020C	52.57	8172-020C	65.14
2 1/2	8170-025C	8171-025C	77.27	8172-025C	91.67
3	8170-030C	8171-030C	91.97	8172-030C	109.13
4	8170-040C	8171-040C	153.27	8172-040C	172.42
6	8170-060C	8171-060C	421.50	8172-060C	478.98
8	8170-080C	N/A	936.60	N/A	N/A

PVC New Style Standard with EPDM Gaskets

Size (in.)	Soc. x Soc. Mfg Part #	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/4	8170E-002	8171E-002	14.70	8172E-002	19.73
3/8	8170E-003	8171E-003	14.70	8172E-003	19.73
1/2	8170E-005	8171E-005	14.70	8172E-005	19.73
3/4	8170E-007	8171E-007	16.59	8172E-007	21.43
1	8170E-010	8171E-010	20.00	8172E-010	25.45
1 1/4	8170E-012	8171E-012	23.78	8172E-012	33.46
1 1/2	8170E-015	8171E-015	25.90	8172E-015	36.18
2	8170E-020	8171E-020	38.11	8172E-020	47.34
2 1/2	8170E-025	8171E-025	63.52	8172E-025	66.78
3	8170E-030	8171E-030	67.57	8172E-030	79.51
4	8170E-040	8171E-040	131.55	8172E-040	147.27
6	8170E-060	8171E-060	258.01	8172E-060	297.71
8	8170E-080	N/A	573.23	N/A	N/A

CPVC New Style Standard with EPDM Gaskets

Size (in.)	Soc. x Soc. Mfg Part #	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/4	8170E-002C	8171E-002C	22.84	8172E-002C	27.87
3/8	8170E-003C	8171E-003C	22.84	8172E-003C	27.87
1/2	8170E-005C	8171E-005C	22.84	8172E-005C	27.87
3/4	8170E-007C	8171E-007C	25.64	8172E-007C	32.86
1	8170E-010C	8171E-010C	29.77	8172E-010C	35.40
1 1/4	8170E-012C	8171E-012C	37.67	8172E-012C	49.74
1 1/2	8170E-015C	8171E-015C	39.53	8172E-015C	56.76
2	8170E-020C	8171E-020C	56.99	8172E-020C	70.16
2 1/2	8170E-025C	8171E-025C	80.94	8172E-025C	103.14
3	8170E-030C	8171E-030C	96.37	8172E-030C	122.80
4	8170E-040C	8171E-040C	159.96	8172E-040C	204.45
6	8170E-060C	8171E-060C	439.06	8172E-060C	486.21
8	8170E-080C	N/A	963.98	N/A	N/A

PVC New Style Standard with FKM Gaskets

Size (in.)	Soc. x Soc. Mfg Part #	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/4	8170V-002	8171V-002	24.24	8172V-002	29.65
3/8	8170V-003	8171V-003	24.24	8172V-003	29.65
1/2	8170V-005	8171V-005	24.24	8172V-005	29.65
3/4	8170V-007	8171V-007	26.58	8172V-007	31.59
1	8170V-010	8171V-010	31.83	8172V-010	36.09
1 1/4	8170V-012	8171V-012	33.56	8172V-012	40.95
1 1/2	8170V-015	8171V-015	36.96	8172V-015	46.74
2	8170V-020	8171V-020	60.65	8172V-020	69.26
2 1/2	8170V-025	8171V-025	91.42	8172V-025	98.92
3	8170V-030	8171V-030	108.83	8172V-030	117.80
4	8170V-040	8171V-040	272.25	8172V-040	287.09
6	8170V-060	8171V-060	489.66	8172V-060	549.29
8	8170V-080	N/A	911.52	N/A	N/A

CPVC New Style Standard with FKM Gaskets

Size (in.)	Soc. x Soc. Mfg Part #	Soc. x Thr. Mfg Part #	Price $	Thr. x Thr. Mfg Part #	Price $
1/4	8170V-002C	8171V-002C	29.95	8172V-002C	43.13
3/8	8170V-003C	8171V-003C	29.95	8172V-003C	43.13
1/2	8170V-005C	8171V-005C	29.95	8172V-005C	43.13
3/4	8170V-007C	8171V-007C	34.45	8172V-007C	48.61
1	8170V-010C	8171V-010C	39.88	8172V-010C	55.94
1 1/4	8170V-012C	8171V-012C	49.00	8172V-012C	68.62
1 1/2	8170V-015C	8171V-015C	51.08	8172V-015C	71.00
2	8170V-020C	8171V-020C	77.34	8172V-020C	110.60
2 1/2	8170V-025C	8171V-025C	111.31	8172V-025C	156.95
3	8170V-030C	8171V-030C	132.52	8172V-030C	186.83
4	8170V-040C	8171V-040C	293.52	8172V-040C	491.32
6	8170V-060C	8171V-060C	737.65	8172V-060C	900.53
8	8170V-080C	N/A	1725.55	N/A	N/A

Spears® New Style Special Reinforced (SR) Threaded Tank Adapters



Designed to facilitate connections through tank or bulkhead walls. Available in PVC or CPVC with socket x SR thread or thread x SR thread end connections.

New Style Tank Adapters are designed with Spears® patented Special Reinforced (SR) Female Plastic Threads for improved adapter connection strength, even when transitioned to metal pipe. In addition, these Tank Adapters in sizes through 4" are designed for use with Nut & Body Spanner Wrench Sets on the outside connection to aid both installation and in make-up of external threaded connections.

Features:
- PVC and CPVC
- Neoprene, EPDM or FPM Gaskets
- Special Reinforced (SR) Female Plastic Threads
- Rated at 150 psi @ 73°F (23°C)

PVC New Style Special Reinforced (SR) Threaded with Neoprene Gaskets

Size (in.)	Soc. x SR Thr. Mfg Part #	Price $	Thr. x SR Thr. Mfg Part #	Price $
1/4	8171-002SR	14.78	8172-002SR	19.77
3/8	8171-003SR	14.78	8172-003SR	19.77
1/2	8171-005SR	14.78	8172-005SR	19.77
3/4	8171-007SR	17.13	8172-007SR	21.88
1	8171-010SR	19.29	8172-010SR	24.20
1 1/4	8171-012SR	23.71	8172-012SR	32.59
1 1/2	8171-015SR	27.21	8172-015SR	36.73
2	8171-020SR	39.00	8172-020SR	47.59
2 1/2	8171-025SR	62.79	8172-025SR	72.45
3	8171-030SR	74.75	8172-030SR	86.26
4	8171-040SR	138.27	8172-040SR	153.56
6	8171-060SR	258.77	8172-060SR	297.05

Size (in.)	Hole Saw Size (in.)
1/4	1 1/16
3/8	1 3/16
1/2	1 1/2
3/4	1 3/4
1	2
1 1/4	2 3/8
1 1/2	2 3/4
2	3 3/8
2 1/2	3 7/8
3	4 5/8
4	5 1/2
6	8

CPVC New Style Special Reinforced (SR) Threaded with Neoprene Gaskets

Size (in.)	Soc. x SR Thr. Mfg Part #	Price $	Thr. x SR Thr. Mfg Part #	Price $
1/4	8171-002CSR	20.69	8172-002CSR	27.41
3/8	8171-003CSR	20.69	8172-003CSR	27.41
1/2	8171-005CSR	20.69	8172-005CSR	27.41
3/4	8171-007CSR	24.77	8172-007CSR	31.83
1	8171-010CSR	28.02	8172-010CSR	35.07
1 1/4	8171-012CSR	36.14	8172-012CSR	49.76
1 1/2	8171-015CSR	40.57	8172-015CSR	55.59
2	8171-020CSR	56.10	8172-020CSR	68.73
2 1/2	8171-025CSR	85.34	8172-025CSR	99.74
3	8171-030CSR	101.58	8172-030CSR	118.74
4	8171-040CSR	163.25	8172-040CSR	182.38
6	8171-060CSR	431.16	8172-060CSR	488.63

PVC New Style Special Reinforced (SR) Threaded with EPDM Gaskets

Size (in.)	Soc. x SR Thr. Mfg Part #	Price $	Thr. x SR Thr. Mfg Part #	Price $
1/4	8171E-002SR	15.30	8172E-002SR	20.34
3/8	8171E-003SR	15.30	8172E-003SR	20.34
1/2	8171E-005SR	15.30	8172E-005SR	20.34
3/4	8171E-007SR	17.45	8172E-007SR	22.29
1	8171E-010SR	21.22	8172E-010SR	26.67
1 1/4	8171E-012SR	25.71	8172E-012SR	35.40
1 1/2	8171E-015SR	29.22	8172E-015SR	39.50
2	8171E-020SR	41.70	8172E-020SR	50.94
2 1/2	8171E-025SR	64.83	8172E-025SR	74.86
3	8171E-030SR	77.19	8172E-030SR	89.11
4	8171E-040SR	141.52	8172E-040SR	157.22
6	8171E-060SR	267.67	8172E-060SR	307.34

CPVC New Style Special Reinforced (SR) Threaded with EPDM Gaskets

Size (in.)	Soc. x SR Thr. Mfg Part #	Price $	Thr. x SR Thr. Mfg Part #	Price $
1/4	8171E-002CSR	23.45	8172E-002CSR	28.49
3/8	8171E-003CSR	23.45	8172E-003CSR	28.49
1/2	8171E-005CSR	23.45	8172E-005CSR	28.49
3/4	8171E-007CSR	26.51	8172E-007CSR	33.73
1	8171E-010CSR	31.69	8172E-010CSR	36.62
1 1/4	8171E-012CSR	39.61	8172E-012CSR	51.68
1 1/2	8171E-015CSR	42.85	8172E-015CSR	60.08
2	8171E-020CSR	60.58	8172E-020CSR	73.74
2 1/2	8171E-025CSR	89.02	8172E-025CSR	111.25
3	8171E-030CSR	105.98	8172E-030CSR	132.44
4	8171E-040CSR	169.92	8172E-040CSR	214.40
6	8171E-060CSR	448.73	8172E-060CSR	495.86

PVC New Style Special Reinforced (SR) Threaded with FKM Gaskets

Size (in.)	Soc. x SR Thr. Mfg Part #	Price $	Thr. x SR Thr. Mfg Part #	Price $
1/4	8171V-002SR	24.84	8172V-002SR	30.24
3/8	8171V-003SR	24.84	8172V-003SR	30.24
1/2	8171V-005SR	24.84	8172V-005SR	30.24
3/4	8171V-007SR	27.26	8172V-007SR	32.47
1	8171V-010SR	33.60	8172V-010SR	37.31
1 1/4	8171V-012SR	37.63	8172V-012SR	42.89
1 1/2	8171V-015SR	42.42	8172V-015SR	50.06
2	8171V-020SR	64.96	8172V-020SR	72.87
2 1/2	8171V-025SR	98.90	8172V-025SR	106.99
3	8171V-030SR	117.72	8172V-030SR	127.41
4	8171V-040SR	282.84	8172V-040SR	297.05
6	8171V-060SR	501.29	8172V-060SR	560.90

CPVC New Style Special Reinforced (SR) Threaded with FKM Gaskets

Size (in.)	Soc. x SR Thr. Mfg Part #	Price $	Thr. x SR Thr. Mfg Part #	Price $
1/4	8171V-002CSR	30.56	8172V-002CSR	43.74
3/8	8171V-003CSR	30.56	8172V-003CSR	43.74
1/2	8171V-005CSR	30.56	8172V-005CSR	43.74
3/4	8171V-007CSR	35.32	8172V-007CSR	49.48
1	8171V-010CSR	41.09	8172V-010CSR	57.15
1 1/4	8171V-012CSR	50.94	8172V-012CSR	70.56
1 1/2	8171V-015CSR	54.39	8172V-015CSR	74.31
2	8171V-020CSR	81.00	8172V-020CSR	114.20
2 1/2	8171V-025CSR	119.36	8172V-025CSR	165.02
3	8171V-030CSR	142.13	8172V-030CSR	196.45
4	8171V-040CSR	303.47	8172V-040CSR	501.28
6	8171V-060CSR	749.26	8172V-060CSR	910.19

Titan Boltless Tank Fittings



Outside Tank View



Inside Tank View

After more than 5 years of design, development and testing, Rhino is proud to unveil the next generation and future of industrial tank fittings: US Patent #7,527,299 TITAN Boltless Tank Fittings

When it comes to tank connection safety and reliability, Titan Boltless Tank Fittings have no equal. Titan's industry leading design eliminates the need to layout and drill bolt holes through the tank wall, thus eliminating leaks, stress cracks and premature tank failures. Titan's patented design keeps all the fitting hardware on the outside of the tank where it is easiest to install. Safe, reliable and precise fitting installation has never been so easy.

NOTE: Cut hole for the fitting body using a hole saw approximately 1/16" larger than the fitting body.

Type 316 Stainless Steel FPT x FPT / EPDM

Size (in.)	Mfg Part #	Price $
1	1030-010	301.83
1 1/2	1030-015	313.09
2	1030-020	343.50
3	1030-030	764.71
4	1030-040	1058.65

Type 316 Stainless Steel Grooved Pipe / EPDM

Size (in.)	Mfg Part #	Price $
6	1023-060	2455.17
8	1023-080	3526.20
10	1023-100	3871.97
12	1023-120	4539.81

Type 316 Stainless Steel Tri-Clover / EPDM

Size (in.)	Mfg Part #	Price $
1	1034-010	674.34
1 1/2	1034-015	701.41
2	1034-020	768.49
3	1034-030	1521.67

Type 316 Stainless Steel Anti-Vortex Adapters

Size (in.)	Mtg	Mfg Part #	Price $
2	Weld	1035-020	113.83
3	Weld	1035-030	156.81
4	Weld	1035-040	197.46
4	Bolt	1035-040AV	419.32



Plastic Series (FNPT)



Stainless Series (FNPT)



Stainless Tri-Clover



Grooved Pipe

Polypropylene FPT x FPT / EPDM

Size (in.)	Mfg Part #	Price $
1	1036-010	310.13
1 1/2	1036-015	321.70
2	1036-020	352.94
3	1036-030	785.74
4	1036-040	1087.76

Polypropylene Grooved Pipe / EPDM

Size (in.)	Mfg Part #	Price $
6	1033-060	2522.67
8	1033-080	3623.15
10	1033-100	3978.41
12	1033-120	4664.62

Polypropylene Double Wall Transition Fitting Kits / FPM

Size (in.)	Mfg Part #	Price $
2	1041-020V	638.59

PVC FPT x FPT / EPDM

Size (in.)	Mfg Part #	Price $
1	1040-010	310.13
1 1/2	1040-015	321.70
2	1040-020	352.94
3	1040-030	785.74
4	1040-040	1087.76

PVC Grooved Pipe / EPDM

Size (in.)	Mfg Part #	Price $
6	1043-060	2522.67
8	1043-080	3623.15
10	1043-100	3978.41
12	1043-120	4664.62

PVC Double Wall Transition Fitting Kits / FPM

Size (in.)	Mfg Part #	Price $
2	1042-020V	638.59

CPVC FPT x FPT / EPDM

Size (in.)	Mfg Part #	Price $
1	1046-010	563.55
1 1/2	1046-015	585.53
2	1046-020	642.24
3	1046-030	1427.97
4	1046-040	1977.64

Polyethylene FPT x FPT / EPDM

Size (in.)	Mfg Part #	Price $
1	1056-010	310.13
1 1/2	1056-015	321.70
2	1056-020	352.94
3	1056-030	785.74
4	1056-040	1087.76

PTFE FPT x FPT / FPM

Size (in.)	Mfg Part #	Price $
1	1066-010-V	805.40
1 1/2	1066-015-V	836.64
2	1066-020-V	917.65
3	1066-030-V	2038.97
4	1066-040-V	2824.70

EPDM Gaskets Stainless Steel Series

Size (in.)	Mfg Part #	Price $
1	GSS-010	5.72
1 1/2	GSS-015	8.01
2	GSS-020	13.73
3	GSS-030	29.75
4	GSS-040	48.06
4	GSS-040-38*	54.92
6	GSS-060*	64.08

*3/8" Thickness

FPM Gaskets Stainless Steel Series

Size (in.)	Mfg Part #	Price $
1	GSS-010-V	65.19
1 1/2	GSS-015-V	83.81
2	GSS-020-V	94.29
3	GSS-030-V	150.16
4	GSS-040-V	386.48
4	GSS-040-VH*	432.11
6	GSS-060-V*	680.99

*3/8" Thickness

PTFE Severe Duty Gaskets Stainless Steel Series

Size (in.)	Mfg Part #	Price $
1	GSS-010-TG	150.16
1 1/2	GSS-015-TG	221.17
2	GSS-020-TG	298.01
3	GSS-030-TG	674.01
4	GSS-040-TG	765.98
6	GSS-060-TG	1300.29

EPDM Gaskets Plastic Series

Size (in.)	Mfg Part #	Price $
1	GPL-010	6.87
1 1/2	GPL-015	9.16
2	GPL-020	16.02
3	GPL-030	32.04
4	GPL-040	52.63
6	GPL-060*	66.36

*3/8" Thickness

FPM Gaskets Plastic Series

Size (in.)	Mfg Part #	Price $
1	GPL-010-V	65.19
1 1/2	GPL-015-V	83.81
2	GPL-020-V	94.29
3	GPL-030-V	150.16
4	GPL-040-V	270.07
6	GPL-060-V	680.99

Bulkhead Fittings

Rhino Tank Fittings







NOTE: Cut hole for the fitting body using a hole saw approximately 1/16" larger than the fitting body.

Designed and engineered to perform under the harshest conditions, Rhino Stainless Steel Tank Fittings offer the ultimate in Sealing Power, Corrosion Resistance, and Outright Brute Strength!

Whether for Agricultural, Industrial, Residential or Mission Critical Applications, Rhino tank fittings are the expert's choice for professional tank & piping installations. Easy to install and built like a battleship…nothing beats a Rhino.

When it comes to manufacturing quality and product durability, we wrote the script and published the book! Our precision tooling guarantees 100% accuracy every time and our strict quality control procedures make Rhino the most trusted and dependable bolted tank fittings available anywhere…bar none!

A tank fitting is only as strong as its weakest link, which is why we've left nothing to chance on Rhino fittings. Constructed entirely from chemical resistant, type 316L Stainless Steel, every Rhino fitting is laser cut from super heavy duty plate stock and robotically welded to exacting standards….a true work of industrial art. Oversized 1/2" diameter studs and precision molded EPDM or FPM gaskets guarantee tremendous long-term performance and maximum leak protection.

Type 316 SS Full Coupling FPT x FPT / EPDM

Size (in.)	Bolt	Mfg Part #	Price $
1/2	4	0630-005	194.12
3/4	4	0630-010	199.11
1	4	0630-015	211.32
1 1/4	4	0630-020	212.62
1 1/2	4	0630-025	218.72
2	4	0630-030	239.96
2 1/2	6	0630-035	514.57
3	6	0630-040	533.89
4	8	0630-045	741.12

Type 316 SS Full Nipple MPT x MPT / EPDM

Size (in.)	Bolt	Mfg Part #	Price $
1/2	4	0632-005	210.81
3/4	4	0632-010	212.62
1	4	0632-015	218.40
1 1/4	4	0632-020	229.14
1 1/2	4	0632-025	234.75
2	4	0632-030	267.65
2 1/2	6	0632-035	568.25
3	6	0632-040	602.20
4	8	0632-045	817.43

Type 316 Stainless Steel Anti-Vortex Adapters

Size (in.)	Mtg	Mfg Part #	Price $
2	Weld	1035-020	113.83
3	Weld	1035-030	156.81
4	Weld	1035-040	197.46

EPDM Gaskets

# of Bolts	Mfg Part #	Price $
4	0627-005	7.60
6	0627-015	17.67
8	0627-025	30.22

FPM Gaskets

# of Bolts	Mfg Part #	Price $
4	0627-010	48.52
6	0627-020	108.90
8	0627-030	173.24

PTFE Severe Duty Gaskets

# of Bolts	Mfg Part #	Price $
4	0629-005	313.28
6	0629-015	905.11
8	0629-025	1337.31

PVC Anti-Vortex Plate Assembly



PVC Anti-Vortex plate is a simple, effective product that controls velocity on your suction line and avoids cavitation.

Specifications:

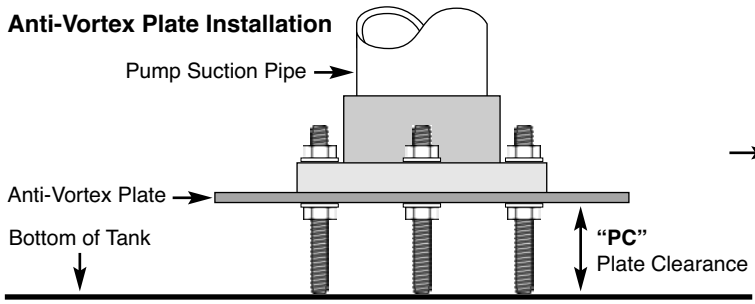
- Anti-vortex plate is designed to limit velocity to 1.5 F.P.S maximum.
- Flow is based on the suction pipe velocity at 6 F.P.S.
- All kits include below hardware:
  - (4) SS Threaded Rods
  - (8) SS Nuts
  - (8) SS Flat Washers

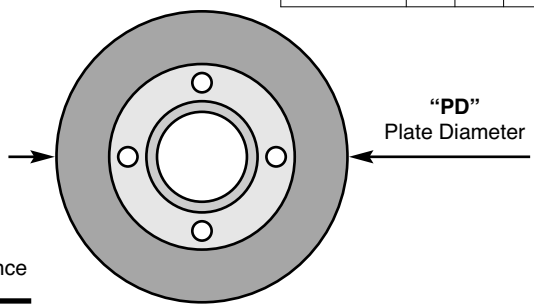
Contact Sales Department for Ordering and Pricing

Anti-Vortex Plate Assembly

Pump Suction Pipe Size (in.)	PC (in.)	PD (in.)	Bolt Size (in.)
2 1/2	3	9	5/8
3	3	9	5/8
4	3	12	5/8
6	3	16	3/4
8	4	18	3/4
10	4	24	3/4
12	4	36	3/4
14	4	39	3/4
16	10	48	3/4
18	10	48	7/8

Anti-Vortex Plate Installation





Bolt Kits

Wafer Style Butterfly Valve Bolt Kits



A1
Asahi
Type 57



A2
Asahi
Type SP
Pool-Pro®



B1
BVC
Type
VF-730



C1
Cepex®
Standard
Series



G1
GF
Type
563



G2
GF
Type
567



H2
Hayward
BYV
Series



H3
Hayward
BYB
Series



H4
Hayward
Pure-Blu™
BYCN

- For more information on the wafer style butterfly valves above please see the page as listed below each valve.
- Valves over 10" may have a threaded rod bolt kit if hex head bolts are not available.
- Order by combining the item number below with the material prefix. Zinc Plated is ZP502, Stainless Steel 18-8 is SS319, Stainless Steel 316 is SS318. Example = ZP502 - 040 - H2
  (Material)-(Size)-(Brand/Style)

Zinc Plated Butterfly Bolt Kits - Add ZP502 in front of item number below to create complete part number when ordering.

Valve Size	Asahi Type 57	Asahi Type SP Pool-Pro®	BVC Type VF-730	Cepex® Standard Series	GF Type 563	GF Type 567	Hayward BYV Series	Hayward BYB Series	Hayward Pure-Blu™ BYCN	Price $
1 1/2	-015-A1	-015-A2	-015-B1	N/A	N/A	N/A	N/A	N/A	N/A	5.70
2	-020-A1	-020-A2	-020-B1	N/A	-020-G1	-020-G2	-020-H2	N/A	-020-H4	10.00
2 1/2	-025-A1	-025-A2	-025-B1	-025-C1	-025-G1	-025-G2	-025-H2	N/A	-025-H4	10.60
3	-030-A1	-030-A2	-030-B1	-030-C1	-030-G1	-030-G2	-030-H2	N/A	-030-H4	11.27
4	-040-A1	-040-A2	-040-B1	-040-C1	-040-G1	-040-G2	-040-H2	N/A	-040-H4	23.70
5	-050-A1	-050-A2	-050-B1	-050-C1	-050-G1	-050-G2	N/A	N/A	-050-H4	37.03
6	-060-A1	-060-A2	-060-B1	-060-C1	-060-G1	-060-G2	-060-H2	N/A	-060-H4	39.55
8	-080-A1	-080-A2	-080-B1	-080-C1	-080-G1	-080-G2	-080-H2	N/A	-080-H4	42.37
10	-100-A1	-100-A2	-100-B1	-100-C1	-100-G1	-100-G2	-100-H2	-100-H3	N/A	105.78
12	-120-A1	-120-A2	-120-B1	-120-C1	-120-G1	-120-G2	-120-H2	-120-H3	N/A	123.33

Stainless Steel 18-8 Butterfly Bolt Kits - Add SS319 in front of item number below to create complete part number when ordering.

Valve Size	Asahi Type 57	Asahi Type SP Pool-Pro®	BVC Type VF-730	Cepex® Standard Series	GF Type 563	GF Type 567	Hayward BYV Series	Hayward BYB Series	Hayward Pure-Blu™ BYCN	Price $
1 1/2	-015-A1	-015-A2	-015-B1	N/A	N/A	N/A	N/A	N/A	N/A	8.00
2	-020-A1	-020-A2	-020-B1	N/A	-020-G1	-020-G2	-020-H2	N/A	-020-H4	11.23
2 1/2	-025-A1	-025-A2	-025-B1	-025-C1	-025-G1	-025-G2	-025-H2	N/A	-025-H4	11.82
3	-030-A1	-030-A2	-030-B1	-030-C1	-030-G1	-030-G2	-030-H2	N/A	-030-H4	12.76
4	-040-A1	-040-A2	-040-B1	-040-C1	-040-G1	-040-G2	-040-H2	N/A	-040-H4	27.22
5	-050-A1	-050-A2	-050-B1	-050-C1	-050-G1	-050-G2	N/A	N/A	-050-H4	56.16
6	-060-A1	-060-A2	-060-B1	-060-C1	-060-G1	-060-G2	-060-H2	N/A	-060-H4	59.79
8	-080-A1	-080-A2	-080-B1	-080-C1	-080-G1	-080-G2	-080-H2	N/A	-080-H4	65.49
10	-100-A1	-100-A2	-100-B1	-100-C1	-100-G1	-100-G2	-100-H2	-100-H3	N/A	288.74
12	-120-A1	-120-A2	-120-B1	-120-C1	-120-G1	-120-G2	-120-H2	-120-H3	N/A	303.03

Stainless Steel 316 Butterfly Bolt Kits - Add SS318 in front of item number below to create complete part number when ordering.

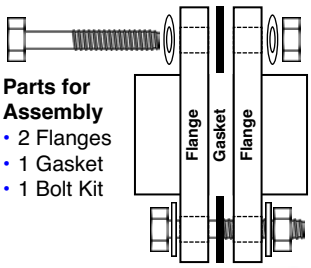
Valve Size	Asahi Type 57	Asahi Type SP Pool-Pro®	BVC Type VF-730	Cepex® Standard Series	GF Type 563	GF Type 567	Hayward BYV Series	Hayward BYB Series	Hayward Pure-Blu™ BYCN	Price $
1 1/2	-015-A1	-015-A2	-015-B1	N/A	N/A	N/A	N/A	N/A	N/A	11.82
2	-020-A1	-020-A2	-020-B1	N/A	-020-G1	-020-G2	-020-H2	N/A	-020-H4	14.95
2 1/2	-025-A1	-025-A2	-025-B1	-025-C1	-025-G1	-025-G2	-025-H2	N/A	-025-H4	18.18
3	-030-A1	-030-A2	-030-B1	-030-C1	-030-G1	-030-G2	-030-H2	N/A	-030-H4	19.60
4	-040-A1	-040-A2	-040-B1	-040-C1	-040-G1	-040-G2	-040-H2	N/A	-040-H4	41.50
5	-050-A1	-050-A2	-050-B1	-050-C1	-050-G1	-050-G2	N/A	N/A	-050-H4	66.46
6	-060-A1	-060-A2	-060-B1	-060-C1	-060-G1	-060-G2	-060-H2	N/A	-060-H4	71.21
8	-080-A1	-080-A2	-080-B1	-080-C1	-080-G1	-080-G2	-080-H2	N/A	-080-H4	78.82
10	-100-A1	-100-A2	-100-B1	-100-C1	-100-G1	-100-G2	-100-H2	-100-H3	N/A	328.72
12	-120-A1	-120-A2	-120-B1	-120-C1	-120-G1	-120-G2	-120-H2	-120-H3	N/A	414.69

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com

Bolt Kits & Flange Gaskets

Flange to Flange Bolt Kits

Standard Bolt Kits:
ALSCO Flange Kits are packaged for use with PVC, CPVC, PP, and PVDF Schedule 80 IPS pipe system. You can select your Bolt Kit with the gasket of your choice. Our kits are sized based on manufacture of flanges. Other brands used, requires matching proper bolt lengths with matching flanges.



Parts for Assembly
- 2 Flanges
- 1 Gasket
- 1 Bolt Kit



Standard - Zinc Plated

Size (in.)	ALSCO #	Price $
1/2	ZP500-005	4.60
3/4	ZP500-007	4.60
1	ZP500-010	5.18
1 1/4	ZP500-012	5.18
1 1/2	ZP500-015	5.18
2	ZP500-020	7.70
2 1/2	ZP500-025	7.70
3	ZP500-030	8.00
4	ZP500-040	15.12
5	ZP500-050	27.12
6	ZP500-060	27.12
8	ZP500-080	27.12
10	ZP500-100	73.12
12	ZP500-120	73.12

Standard - Stainless Steel 18-8

Size (in.)	ALSCO #	Price $
1/2	SS304-005	4.67
3/4	SS304-007	4.67
1	SS304-010	5.43
1 1/4	SS304-012	5.43
1 1/2	SS304-015	5.43
2	SS304-020	8.77
2 1/2	SS304-025	8.77
3	SS304-030	9.23
4	SS304-040	19.23
5	SS304-050	34.28
6	SS304-060	34.28
8	SS304-080	34.28
10	SS304-100	98.85
12	SS304-120	98.85

Standard - Stainless Steel 316

Size (in.)	ALSCO #	Price $
1/2	SS316-005	6.77
3/4	SS316-007	6.77
1	SS316-010	8.00
1 1/4	SS316-012	8.00
1 1/2	SS316-015	8.00
2	SS316-020	12.95
2 1/2	SS316-025	12.95
3	SS316-030	14.48
4	SS316-040	29.90
5	SS316-050	47.43
6	SS316-060	47.43
8	SS316-080	47.43
10	SS316-100	156.28
12	SS316-120	156.28

Metric Bolt Kits:
ALSCO Flange Kits are packaged for use with GF & ASAHI Metric Piping Systems in PP and PVDF. You can select your Bolt Kit with the gasket of your choice. Our kits are sized based on manufacture of flanges. Other brands used, requires matching proper bolt lengths with matching flanges.

Metric - Stainless Steel 18-8

Size (in.)	ALSCO #	Price $
1/2	SS305-005	5.43
3/4	SS305-007	5.43
1	SS305-010	5.62
1 1/4	SS305-012	5.62
1 1/2	SS305-015	7.33
2	SS305-020	9.62
3	SS305-030	10.00
4	SS305-040	20.57
6	SS305-060	45.15

Metric - Stainless Steel 316

Size (in.)	ALSCO #	Price $
1/2	SS317-005	7.72
3/4	SS317-007	8.00
1	SS317-010	8.10
1 1/4	SS317-012	8.10
1 1/2	SS317-015	9.15
2	SS317-020	14.95
3	SS317-030	15.43
4	SS317-040	31.82
6	SS317-060	59.62

Gaskets:
Gaskets are full faced pre-cut to ANSI (150 lb.) B 16-5 dim. and 1/8" thick with 60 - 75 durometer shore. Gaskets installed outside without protection from UV radiation will suffer degradation. ALSCO Nut & Bolt Kits are sized from the information given to us by our manufacturers of flanges.

EPDM Full Face

Size (in.)	ALSCO #	Price $
1/2	EP101-005	1.20
3/4	EP101-007	1.28
1	EP101-010	1.40
1 1/4	EP101-012	1.60
1 1/2	EP101-015	1.68
2	EP101-020	2.28
2 1/2	EP101-025	3.20
3	EP101-030	5.12
4	EP101-040	8.00
5	EP101-050	8.64
6	EP101-060	10.96
8	EP101-080	16.12
10	EP101-100	23.16
12	EP101-120	48.20

EPDM Ring Type

Size (in.)	ALSCO #	Price $
1/2	EP102-005	1.12
3/4	EP102-007	1.12
1	EP102-010	1.12
1 1/4	EP102-012	1.28
1 1/2	EP102-015	1.28
2	EP102-020	1.52
2 1/2	EP102-025	1.64
3	EP102-030	2.20
4	EP102-040	3.36
5	EP102-050	4.64
6	EP102-060	4.64
8	EP102-080	8.84
10	EP102-100	13.28
12	EP102-120	19.84

Neoprene Full Face

Size (in.)	ALSCO #	Price $
1/2	NR201-005	1.20
3/4	NR201-007	1.28
1	NR201-010	1.40
1 1/4	NR201-012	1.60
1 1/2	NR201-015	1.68
2	NR201-020	2.28
2 1/2	NR201-025	3.20
3	NR201-030	5.12
4	NR201-040	6.60
5	NR201-050	7.32
6	NR201-060	9.28
8	NR201-080	13.68
10	NR201-100	20.88
12	NR201-120	25.20

Neoprene Ring Type

Size (in.)	ALSCO #	Price $
1/2	NR202-005	0.88
3/4	NR202-007	0.88
1	NR202-010	0.88
1 1/4	NR202-012	1.00
1 1/2	NR202-015	1.00
2	NR202-020	1.36
2 1/2	NR202-025	1.64
3	NR202-030	2.12
4	NR202-040	3.32
5	NR202-050	4.64
6	NR202-060	4.64
8	NR202-080	7.84
10	NR202-100	8.04
12	NR202-120	9.52

FPM Full Face

Size (in.)	ALSCO #	Price $
1/2	VT301-005	11.40
3/4	VT301-007	12.12
1	VT301-010	15.08
1 1/4	VT301-012	17.88
1 1/2	VT301-015	19.76
2	VT301-020	29.72
2 1/2	VT301-025	38.08
3	VT301-030	43.80
4	VT301-040	67.60
5	VT301-050	90.64
6	VT301-060	90.64
8	VT301-080	133.24
10	VT301-100	203.52
12	VT301-120	245.60

FPM Ring Type

Size (in.)	ALSCO #	Price $
1/2	VT302-005	7.60
3/4	VT302-007	9.40
1	VT302-010	11.52
1 1/4	VT302-012	13.76
1 1/2	VT302-015	16.48
2	VT302-020	22.56
2 1/2	VT302-025	29.76
3	VT302-030	34.76
4	VT302-040	54.60
5	VT302-050	83.36
6	VT302-060	83.36
8	VT302-080	127.48
10	VT302-100	171.13
12	VT302-120	227.97

Red Rubber Full Face

Size (in.)	ALSCO #	Price $
1/2	RR501-005	1.04
3/4	RR501-007	1.20
1	RR501-010	1.32
1 1/4	RR501-012	1.52
1 1/2	RR501-015	1.60
2	RR501-020	2.16
2 1/2	RR501-025	3.04
3	RR501-030	3.92
4	RR501-040	5.84
5	RR501-050	6.40
6	RR501-060	8.16
8	RR501-080	11.96
10	RR501-100	18.28
12	RR501-120	32.04

PTFE Envelope

Size (in.)	ALSCO #	Price $
1/2	TE401-005	1.80
3/4	TE401-007	2.15
1	TE401-010	2.65
1 1/4	TE401-012	3.50
1 1/2	TE401-015	3.75
2	TE401-020	5.05
2 1/2	TE401-025	6.85
3	TE401-030	7.20
4	TE401-040	10.55
5	TE401-050	N/A
6	TE401-060	15.85
8	TE401-080	23.30
10	TE401-100	34.50
12	TE401-120	50.95

Flange Gaskets

Asahi Low Torque AV Gaskets



Features:

- PTFE or PVDF bonded EPDM for maximum corrosion resistance and high fluid purity
- Perfect sealing at low bolt tightening torque ratings for longer gasket life
- Ideal for plastic piping systems, as well as metal or plastic-lined metal systems
- Sulfur cured
- Approximately 1/3 of the bolt tightening torque compared with flat or envelope type gasket
- PTFE bonded gasket available for the most corrosive applications
- PVDF bonded gasket ideal for: Semiconductor industry due to its purity, Aggressive chemicals (strong acids, bases, halogens), Volatile media (fluids that generate gas): PVDF has a permeability of about 1/50th of PTFE
- Proprietary laminating process for bonding to EPDM that allows for the greater elasticity required for low torque gaskets

Asahi Low Torque AV Gaskets

Size (in.)	EPDM Part #	Price $	PTFE Part #	Price $	PVDF Part #	Price $
1/2	3113-005	7.00	3114-005	16.00	3115-005	22.00
3/4	3113-007	7.00	3114-007	17.00	3115-007	23.00
1	3113-010	7.00	3114-010	19.00	3115-010	23.00
1 1/4	3113-012	7.00	3114-012	23.00	N/A	N/A
1 1/2	3113-015	7.00	3114-015	23.00	3115-015	28.00
2	3113-020	8.00	3114-020	26.00	3115-020	32.00
2 1/2	3113-025	8.00	3114-025	30.00	N/A	N/A
3	3113-030	8.00	3114-030	38.00	3115-030	47.00
4	3113-040	11.00	3114-040	42.00	3115-040	57.00
6	3113-060	14.00	3114-060	63.00	3115-060	79.00
8	3113-080	17.00	3114-080	77.00	3115-080	129.00
10	3113-100	22.00	3114-100	90.00	3115-100	143.00
12	3113-120	22.00	3114-120	111.00	N/A	N/A

Recommended Bolt Torque

Size (in.)	Size (mm)	EPDM	PTFE PVDF
1/2	15	157	174
3/4	20	157	174
1	25	157	174
1 1/4	32	165	191
1 1/2	40	174	217
2	50	174	217
2 1/2	65	217	304
3	80	217	304
4	100	217	304
5	125	260	348
6	150	260	348
8	200	304	435
10	250	304	435
12	300	435	522

Expressed in INCH-POUNDS

ICON LoTorq LT Series Full Faced ANSI Flange Gaskets



Icon LoTorq LT Series ANSI Flange Gaskets

Size (in.)	EPDM Part #	Price $	PTFE Part #	Price $
1/2	LTE0005	5.00	LTPT0005	12.00
3/4	LTE0075	5.00	LTPT0075	12.00
1	LTE0100	6.00	LTPT0100	14.00
1 1/2	LTE0150	7.00	LTPT0150	16.00
2	LTE0200	8.00	LTPT0200	18.00
3	LTE0300	12.00	LTPT0300	28.00
4	LTE0400	15.00	LTPT0400	32.00
6	LTE0600	16.00	LTPT0600	48.00
8	LTE0800	18.00	LTPT0800	58.00
10	LTE1000	22.00	LTPT1000	70.00
12	LTE1200	22.00	LTPT1200	85.00

Features:

- Industry's Only Full Port Double O-Ring Design for 1/2" - 12" Sch 40 / Sch 80 PVC / CPVC Piping Systems
- Low Flange Bolt Torques Required for Positive Seal - Due to the Molded Raised Face - Patented double convex Ring Design
- Ideal for Thermoplastic Piping Systems / Metal / Plastic Lined Metal Pipe Systems for up to 250 psi
- Excellent Chemical Resistance / PTFE-bonded gaskets are Suitable for Extremely Aggressive Chemical Services
- Longer Gasket Life / Lower Flange Pressures are Required for Sealing. PTFE is Energized by EPDM Backing Forming an Excellent Seal.
- Low Torque / Raised O-Ring Design
- Designed to Provide Positive Seal

Banjo ANSI Flange Gasket

Features: 150 P.S.I. maximum. Glass reinforced polypropylene. Heavy duty.

ANSI Flange Gaskets



Size (in.)	EPDM Mfg Part #	Price $	FPM Mfg Part #	Price $
1	AF100G	4.64	AF100GV	44.54
1 1/2	AF150G	7.84	AF150GV	56.48
2	AF200G	8.49	AF200GV	85.92
3	AF300G	9.52	AF300GV	109.49
4	AF400G	11.78	AF400GV	160.19

150# Threaded ANSI Flange Gaskets



Size (in.)	Mfg Part #	Price $
1	AF100	12.21
1 1/2	AF150	23.42
2	AF200	22.77
3	AF300	43.67
4	AF400	92.27

150# Blind ANSI Flange Gaskets



Size (in.)	Mfg Part #	Price $
1	AFB100	13.91
1 1/2	AFB150	21.28
2	AFB200	32.84
3	AFB300	57.73
4	AFB400	100.85

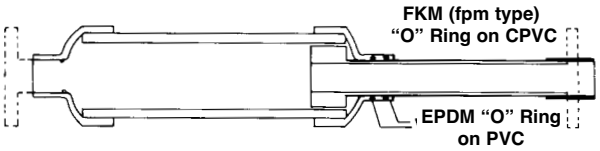
ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 100118

PVC and CORZAN® (CPVC) Expansion Joints with 6” and 12” Travel



Expansion joints for use in PVC or CPVC piping systems. The PVC comes in sizes 1/2” to 12” and the CPVC from 1/2” to 10”. An expansion joint consists of two tubes, one telescoping inside the other. The outer tube is to be firmly anchored and the inner tube allowed to move with a piston-like action as the attached pipe expands or contracts.

Since both types of plastic pipe grow with temperature fluctuations, the expansion joints eliminate the need for expansion loops and permits rigid mounting between two fixed points. In long runs, the pipe line should be anchored at each change of direction so that movement of the pipe will be directed squarely into the expansion joint. Alignment of expansion joints is most important, since binding can result if pipe is canted or cocked and does not move in the same plane as the joint.



Our all new expansion joint is designed to minimize alignment problems that can cause cocking, leaking, and breakage. Our new design features a multi “O” ring system to eliminate leaking and a supported piston to maintain perfect alignment and eliminate cocking or breakage.

When used in normal application these multi “O” ring expansion joints require no repair or parts replacement since our unique design incorporates a new wiper system to remove dirt and particles that would normally cause wear to the seal rings.

PVC 6” Travel

Size (in.)	Part #	Price $
1/2	4009-005	315.01
3/4	4009-007	338.64
1	4009-010	342.45
1 1/4	4009-012	398.05
1 1/2	4009-015	422.09
2	4009-020	472.14
2 1/2	4009-025	538.54
3	4009-030	559.02
4	4009-040	599.94
6	4009-060	988.40
8	4009-080	1360.75
10	4009-100	1597.91
12	4009-120	2831.30

PVC 12” Travel

Size (in.)	Part #	Price $
1/2	4052-005	354.33
3/4	4052-007	374.74
1	4052-010	449.06
1 1/4	4052-012	490.65
1 1/2	4052-015	454.63
2	4052-020	536.28
2 1/2	4052-025	900.94
3	4052-030	692.83
4	4052-040	778.33
6	4052-060	1133.80
8	4052-080	1520.08
10	4052-100	1858.40
12	4052-120	2976.63

CPVC 6” Travel

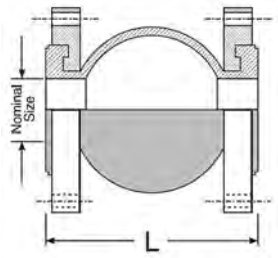
Size (in.)	Part #	Price $
1/2	4010-005	389.49
3/4	4010-007	426.21
1	4010-010	460.68
1 1/4	4010-012	483.88
1 1/2	4010-015	527.36
2	4010-020	668.24
2 1/2	4010-025	792.98
3	4010-030	921.21
4	4010-040	1358.67
6	4010-060	1460.53
8	4010-080	2770.57
10	4010-100	3536.97

CPVC 12” Travel

Size (in.)	Part #	Price $
1/2	4053-005	396.69
3/4	4053-007	454.91
1	4053-010	485.29
1 1/4	4053-012	543.17
1 1/2	4053-015	609.15
2	4053-020	777.54
2 1/2	4053-025	1177.10
3	4053-030	945.98
4	4053-040	1567.02
6	4053-060	1726.28
8	4053-080	3305.11
10	4053-100	3872.06

Kuriyama Single Sphere Rubber Expansion Joints





Features:
- Excellent ability to absorb vibration and sound
- Allows for four-way movement
- Withstands high pressure
- Easy installation using either floating flanges or threaded unions
- Excellent for use with moderate chemicals, most oils, fats, grease, and many solvents
- A retention ring is supplied with all double sphere flanged expansion joints

Construction:
- Nylon fabric-reinforced neoprene body with forged carbon steel flanges or cast ductile iron pipe unions

Note: Not for use with oxidizing acids, esters, and keytones

Kuriyama Single Sphere Rubber Expansion Joints - Series HTSRF

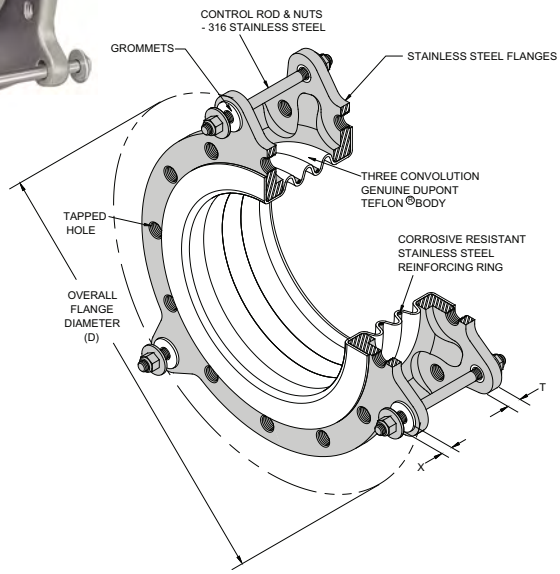
Size (in.)	Length (L-in.)	Axial Comp (in.)	Axial Elong (in.)	Trans Def (in.)	Angul Def (deg.)	Max PSI	Max Temp (°F)	Vac (HG)	Part #	Price $
1 1/4	6	1/2	3/8	1/2	15	225	220	16	5030	52.71
1 1/2	6	1/2	3/8	1/2	15	225	220	16	5031	60.62
2	6	1/2	3/8	1/2	15	225	220	16	5032	73.74
2 1/2	6	1/2	3/8	1/2	15	225	220	16	5033	92.48
3	6	1/2	3/8	1/2	15	225	220	16	5034	109.99
4	6	5/8	3/8	1/2	15	225	220	16	5035	143.73
5	6	5/8	3/8	1/2	15	225	220	16	5036	145.63
6	6	5/8	3/8	1/2	15	225	220	16	5037	219.97
8	6	5/8	3/8	1/2	15	225	220	16	5038	317.45
10	8	3/4	1/2	3/4	15	225	220	16	5039	481.18
12	8	3/4	1/2	3/4	15	225	220	16	5040	612.41
14	8	3/4	1/2	3/4	15	140	220	16	5041	811.58
16	8	3/4	1/2	3/4	15	140	220	16	5042	1041.10
18	8	3/4	1/2	3/4	15	125	220	16	5043	1258.48
20	8	3/4	1/2	3/4	15	125	220	16	5044	1432.52

MERCER Series 800 PTFE Expansion Joints



Style 803 PTFE Three Arch Expansion Joint

MERCER Series 800 PTFE Expansion Joints are the sure and economical way to solve difficult expansion and misalignment. Pressure rated at 150 PSIG @ 70ºF. The PTFE material is corrosive-proof, chemically inert and does not age. Flexibility and flex cycle life is equally exceptional. The PTFE body is formed over the full sealing face of the flanges eliminating the need for separate gaskets. The fluid or gas never contacts the floating flanges. The standard assembly utilizes high strength carbon steel flanges complete with three restraining bolts. The PTFE is reinforced externally with stainless steel rings between arches. They are also available with stainless steel flanges and stainless steel hardware.



The Type 800 is manufactured in 2, 3 and 5 arch variations designated 802, 803 and 805. Flexibility and allowable movements increase with the number of arches. PTFE is ideally suited to the following problems:

- Handling Nitric or Sulfuric acid in mining or plating operations.
- Providing low spring rates and high flexibility to protect fragile FRP, PVC or glass pipe from damage caused by expansion, contraction or ambient vibration.
- Accommodating expansion and contraction in high temperature (up to 350° F, 177° C) caustic green, white and black liquor lines in pulp mills.
- Preventing pipe line vibration from damaging glass linings in acid and caustic soda pumps.
- Providing flexibility to prevent flange leaks caused by the minor explosions in lines from Chlorine generators in bleaching plants of paper mills.
- Providing non-contaminating, sterilizable, flexible connectors for the food processing, medical, and chip manufacturing industries.

NOTE: Style 805 - Five Arch Expansion Joint Available

Style 802 - Two Arch Expansion Joint

Size (in.)	Face to Face (in.)	Flange Dia. "D" (in.)	Flange OD (in.)	Dia. Bolt Circle (in.)	No. of Tapped Holes	Tapped Hole Size - Threads Per Inch	Steel Flange Thickness "T" (in.)	Axial Comp. (in.)	Axial Ext. "X" (in.)	Lateral Def. (in.)	Angular Def. (degrees)	Spring Rate (lb/in.)	Weight (lbs)	Part #	Price $
1	2 3/8	6	4 1/4	3 1/8	4	1/2 - 13	3/8	1/4	1/4	1/8	25	98	3	4008-010	152.00
1 1/2	2 3/8	6 3/4	5	3 7/8	4	1/2 - 13	3/8	1/4	1/4	1/8	18	139	4	4008-015	220.00
2	2 3/8	8 1/8	6	4 3/4	4	5/8 - 11	1/2	1/4	1/4	1/8	14	180	7	4008-020	398.00
2 1/2	2 3/8	9 3/8	7	5 1/2	4	5/8 - 11	1/2	3/8	1/4	1/8	14	221	10	4008-025	542.00
3	3 1/2	10	7 1/2	6	4	5/8 - 11	1/2	3/8	1/4	1/4	14	261	11	4008-030	677.00
4	3 1/2	11 1/8	9	7 1/2	8	5/8 - 11	5/8	1/2	1/4	1/4	14	303	18	4008-040	838.00
5*		13	10	8 1/2	8	3/4 - 10	5/8	1/2	1/4	1/4	11	345	26	4008-050	1045.00
6*		14	11	9 1/2	8	3/4 - 10	5/8	1/2	1/4	1/4	9	389	29	4008-060	1333.00
8*		16 1/4	13 1/2	11 3/4	8	3/4 - 10	3/4	1/2	1/4	1/4	7	430	48	4008-080	1847.00
10*		19	16	14 1/4	12	7/8 - 9	1	1/2	1/4	1/4	5	471	62	4008-100	2340.00
12*		22 1/2	19	17	12	7/8 - 9	1	1/2	1/4	1/4	4	543	92	4008-120	3308.00

*This is not a stock item.

Style 803 - Three Arch Expansion Joint

Size (in.)	Face to Face (in.)	Flange Dia. "D" (in.)	Flange OD (in.)	Dia. Bolt Circle (in.)	No. of Tapped Holes	Tapped Hole Size - Threads Per Inch	Steel Flange Thickness "T" (in.)	Axial Comp. (in.)	Axial Ext. "X" (in.)	Lateral Def. (in.)	Angular Def. (degrees)	Spring Rate (lb/in.)	Weight (lbs)	Part #	Price $
1*		6	4 1/4	3 1/8	4	1/2 - 13	3/8	1/2	1/2	1/4	45	65	3	4011-010	157.00
1 1/2	3 1/4	6 3/4	5	3 7/8	4	1/2 - 13	3/8	1/2	1/2	1/4	30	93	4	4011-015	230.00
2	3 1/4	8 1/8	6	4 3/4	4	5/8 - 11	1/2	1/2	1/2	3/8	25	120	7	4011-020	408.00
2 1/2	3 1/4	9 3/8	7	5 1/2	4	5/8 - 11	1/2	3/4	3/4	3/8	30	147	11	4011-025	550.00
3	4	10	7 1/2	6	4	5/8 - 11	1/2	3/4	3/4	1/2	25	174	12	4011-030	692.00
4	4	11 1/8	9	7 1/2	8	5/8 - 11	5/8	1	1	1/2	25	202	18	4011-040	850.00
5*		13	10	8 1/2	8	3/4 - 10	5/8	1	1	1/2	20	230	28	4011-050	1053.00
6*		14	11	9 1/2	8	3/4 - 10	5/8	1	1	5/8	18	259	30	4011-060	1355.00
8*		16 1/4	13 1/2	11 3/4	8	3/4 - 10	3/4	1 1/8	1 1/8	5/8	15	287	47	4011-080	1928.00
10*		19	16	14 1/4	12	7/8 - 9	1	1 1/8	1 1/8	5/8	12	314	64	4011-100	2367.00
12*		22 1/2	19	17	12	7/8 - 9	1	1 1/8	1 1/8	5/8	10	362	95	4011-120	3325.00

*This is not a stock item.

Concentric & Eccentric Reducers

PVC/FRP and 304 Stainless Steel Reducers

PVC/FRP Features:
- 50 PSI (NON SURGE LOAD) at 75ºF
- Dual material construction: PVC with FRP over wrap schedule 40 PVC minimum
- Solvent fused and back welded
- All joints spark tested
- Flanges ANSI 150 # Van Stone Type
- Exterior protection unsaturated polyester resin-based gelcoat - 10 mils minimum
- Conforms to or exceeds the specifications as set forth in the following standards: Cell Class 23447-B as in ASTM D-1784, F-441, F-437, F-493, ANSI B 16.5 cl 150

304 Stainless Steel Features:
- 50 PSI (NON SURGE LOAD) at 75ºF
- Strainer body is SCH 10 304 Stainless Steel
- Flanges are ANSI 150# Drilling Pattern
- Conforms to or exceeds the specifications as set forth in the following standards: AWSD1.1 AWSD1.3 ASME B31.4 ASME B31.9



Concentric Reducer



Eccentric Reducer

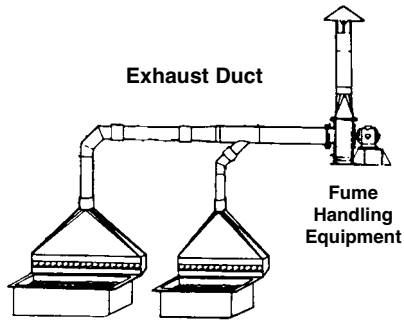
Concentric and Eccentric Reducers

Pipe Size (in)	Reducer Length (in)		Concentric Reducer				Eccentric Reducers			
	PVC/FRP	304 SS	PVC/FRP #	Price $	304 SS #	Price $	PVC/FRP #	Price $	304 SS #	Price $
4 x 2	8.25	7	RC8042F	313.00	RC6042S	572.00	RE8042F	313.00	RE6042S	572.00
4 x 3	8.50	7	RC8043F	313.00	RC6043S	622.00	RE8043F	313.00	RE6043S	622.00
6 x 3	10.25	12	RC8063F	381.00	RC6063S	685.00	RE8063F	381.00	RE6063S	685.00
6 x 4	10.63	12	RC8064F	392.00	RC6064S	696.00	RE8064F	392.00	RE6064S	696.00
6 x 5	11.00	12	RC8065F	481.00	RC6065S	696.00	RE8065F	481.00	RE6065S	696.00
8 x 4	14.00	12	RC8084F	481.00	RC6084S	708.00	RE8084F	481.00	RE6084S	708.00
8 x 5	14.38	12	RC8085F	504.00	RC6085S	708.00	RE8085F	504.00	RE6085S	708.00
8 x 6	14.75	12	RC8086F	515.00	RC6086S	708.00	RE8086F	515.00	RE6086S	708.00
10 x 5	15.63	14	RC8105F	627.00	RC6105S	770.00	RE8105F	627.00	RE6105S	770.00
10 x 6	18.00	14	RC8106F	627.00	RC6106S	770.00	RE8106F	627.00	RE6106S	770.00
10 x 8	17.25	14	RC8108F	627.00	RC6108S	770.00	RE8108F	627.00	RE6108S	770.00
12 x 6	18.75	14	RC8126F	639.00	RC6126S	917.00	RE8126F	639.00	RE6126S	917.00
12 x 8	20.00	14	RC8128F	664.00	RC6128S	941.00	RE8128F	664.00	RE6128S	941.00
12 x 10	21.25	14	RC81210F	692.00	RC61210S	1002.00	RE81210F	692.00	RE61210S	1002.00
14 x 8	20.50	14	RC8148F	785.00	RC6148S	1039.00	RE8148F	785.00	RE6148S	1039.00
14 x 10	21.75	14	RC81410F	796.00	RC61410S	1064.00	RE81410F	796.00	RE61410S	1064.00
16 x 8	20.50	14	RC8168F	830.00	RC6168S	1518.00	RE8168F	830.00	RE6168S	1518.00
16 x 10	21.75	14	RC81610F	898.00	RC61610S	1552.00	RE81610F	898.00	RE61610S	1552.00
16 x 12	23.50	14	RC81612F	898.00	RC61612S	1619.00	RE81612F	898.00	RE61612S	1619.00

PVC and CPVC Corzan® Duct and Fittings



PVC duct pipe is cost effective for industrial and institutional corrosive fume, exhaust and drain applications. PVC pipe is light weight, making it easy to handle and install. It has excellent chemical resistance to many fumes, gases, and fluids. It stands tough against most acids, bases, salts, aliphatic solutions, oxidants, and halogens.



PVC Features:
- High tensile strength and modulus
- Low thermal conductivity
- Good electrical properties
- Excellent chemical resistance
- Corrosion resistance
- Good flammability properties
- Performs well under negative and positive pressure conditions

CPVC Features:
- CPVC Corzan® material has higher impact strength and fire resistance capabilities
- Corzan® CPVC has an upper temperature limit of 200° F
- Extruded CPVC duct pipe thru 24" diameter meets ULC S102.2 with a maximum flame spread rating of 5 or less and a maximum smoke generation of 25 or less
- Corzan® CPVC duct fittings thru 24" diameter are fabricated from extruded duct pipe stock which meets the ULC S 102.2 requirement



Duct-Pipe in 10ft Lengths

Size (in.)	PVC Part #	Price $ Per Ft.	CPVC Part #	Price $ Per Ft.
2	7900-020	4.19	C7900-020	10.43
3	7900-030	6.57	C7900-030	21.52
4	7900-040	9.25	C7900-040	34.75
5	7900-050	15.97	N/A	N/A
6	7900-060	16.31	C7900-060	40.71
7	7900-070	26.22	N/A	N/A
8	7900-080	23.55	C7900-080	69.16
9	7900-090	33.52	N/A	N/A
10	7900-100	29.87	C7900-100	103.92
11	7900-110	39.03	N/A	N/A
12	7900-120	34.82	C7900-120	123.66
14	7900-140	43.56	C7900-140	152.15
16	7900-160	50.47	C7900-160	174.05
18	7900-180	68.95	C7900-180	210.34
20	7900-200	83.19	C7900-200	253.76
24	7900-240	114.05	C7900-240	347.82



Coupling

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	7901-020	10.40	C7901-020	81.11
3	7901-030	18.74	C7901-030	102.54
4	7901-040	25.78	C7901-040	115.93
5	7901-050	33.94	N/A	N/A
6	7901-060	43.27	C7901-060	131.84
7	7901-070	53.98	N/A	N/A
8	7901-080	56.35	C7901-080	151.51
9	7901-090	62.20	N/A	N/A
10	7901-100	65.08	C7901-100	175.80
11	7901-110	69.19	N/A	N/A
12	7901-120	70.95	C7901-120	200.02
14	7901-140	90.79	C7901-140	212.14
16	7901-160	96.23	C7901-160	236.36
18	7901-180	125.45	C7901-180	262.11
20	7901-200	150.69	C7901-200	277.22
24	7901-240	189.18	C7901-240	324.32



* Other sizes available.
Contact sales department.

One Step Reducers*

Length (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
4 x 3	7945	75.71	C7945	165.98
6 x 4	7946	80.18	C7946	194.49
8 x 6	7947	94.72	C7947	219.44
10 x 8	7948	123.01	C7948	234.00
12 x 10	7949	138.54	C7949	236.96
14 x 12	7950	196.02	C7950	265.37
16 x 14	7951	239.62	C7951	283.34
18 x 16	7952	288.85	C7952	607.06
20 x 18	7953	750.47	N/A	N/A
24 x 20	7955	785.98	N/A	N/A

Two Step Reducers*

Length (in.)	PVC Part #	Price $ Each
8 x 4	7963	217.05
10 x 6	7964	259.37
12 x 8	7965	307.79
14 x 10	7966	330.91
16 x 12	7967	381.87
18 x 14	7968	600.04
20 x 16	7969	639.82



Cap

Size (in.)	PVC Part #	Price $ Per Ft.	CPVC Part #	Price $ Per Ft.
2	N/A	N/A	C7921-020	156.24
3	7921-030	68.58	C7921-030	175.14
4	7921-040	94.59	C7921-040	198.60
6	7921-060	107.06	C7921-060	233.01
8	7921-080	110.56	C7921-080	263.95
10	7921-100	121.47	C7921-100	298.20
11	7921-110	122.26	N/A	N/A
12	7921-120	125.00	C7921-120	337.55
14	7921-140	202.09	C7921-140	373.83
16	7921-160	222.78	C7921-160	458.86
18	7921-180	253.19	C7921-180	577.60
20	7921-200	371.66	C7921-200	605.12
24	7921-240	395.07	C7921-240	677.93



Flange

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	7910-020	53.53	C7910-020	89.95
3	7910-030	61.22	C7910-030	113.59
4	7910-040	87.87	C7910-040	137.85
5	7910-050	93.17	N/A	N/A
6	7910-060	98.12	C7910-060	193.66
7	7910-070	115.64	N/A	N/A
8	7910-080	125.56	C7910-080	223.73
9	7910-090	154.68	N/A	N/A
10	7910-100	130.11	C7910-100	256.76
11	7910-110	158.80	N/A	N/A
12	7910-120	149.32	C7910-120	283.45
14	7910-140	176.19	C7910-140	328.43
16	7910-160	219.17	C7910-160	402.76
18	7910-180	335.23	C7910-180	587.89
20	7910-200	388.77	C7910-200	611.88
24	7910-240	426.86	C7910-240	805.21



Blind Flange

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	N/A	N/A	C7922-020	118.39
3	7922-030	62.84	C7922-030	137.27
4	7922-040	72.56	C7922-040	155.87
5	7922-050	75.67	N/A	N/A
6	7922-060	107.98	C7922-060	169.21
7	7922-070	116.33	N/A	N/A
8	7922-080	129.25	C7922-080	181.87
9	7922-090	131.08	N/A	N/A
10	7922-100	133.05	C7922-100	213.01
11	7922-110	168.03	N/A	N/A
12	7922-120	188.86	C7922-120	259.74
14	7922-140	237.99	C7922-140	206.41
16	7922-160	268.40	C7922-160	337.62
18	7922-180	282.09	C7922-180	376.57
20	7922-200	308.85	C7922-200	454.53
24	7922-240	444.64	C7922-240	545.55

PVC and CPVC Corzan® Duct and Fittings



Tee

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	N/A	N/A	C7904-020	246.17
3	7904-030	159.81	C7904-030	282.85
4	7904-040	199.69	C7904-040	323.98
6	7904-060	242.36	C7904-060	415.68
7	7904-070	272.95	N/A	N/A
8	7904-080	349.75	C7904-080	612.94
9	7904-090	357.80	N/A	N/A
10	7904-100	368.61	C7904-100	869.64
11	7904-110	391.08	N/A	N/A
12	7904-120	428.54	C7904-120	1078.85
14	7904-140	495.11	C7904-140	1317.45
16	7904-160	640.68	C7904-160	1559.77
18	7904-180	998.47	C7904-180	1916.98
20	7904-200	1231.48	C7904-200	2334.86
24	7904-240	1614.22	C7904-240	3330.38



45° Elbow

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	7902-020	97.35	C7902-020	164.84
3	7902-030	105.72	C7902-030	182.68
4	7902-040	122.23	C7902-040	213.28
5	7902-050	130.39	N/A	N/A
6	7902-060	138.54	C7902-060	215.12
7	7902-070	161.96	N/A	N/A
8	7902-080	173.96	C7902-080	283.03
9	7902-090	180.36	N/A	N/A
10	7902-100	189.33	C7902-100	377.01
11	7902-110	220.92	N/A	N/A
12	7902-120	231.89	C7902-120	479.14
14	7902-140	274.47	C7902-140	594.46
16	7902-160	330.14	C7902-160	721.22
18	7902-180	493.45	C7902-180	896.74
20	7902-200	685.98	C7902-200	1103.01
24	7902-240	864.65	C7902-240	1623.05



True Wye

Size (in.)	PVC Part #	Price $ Per Ft.	Size (in.)	PVC Part #	Price $ Per Ft.
2	7923-020	280.79	10	7923-100	481.96
3	7923-030	283.96	11	7923-110	494.83
4	7923-040	288.08	12	7923-120	595.81
5	7923-050	293.35	14	7923-140	750.48
6	7923-060	313.40	16	7923-160	915.74
7	7923-070	343.27	18	7923-180	1554.62
8	7923-080	381.53	20	7923-200	1967.77
9	7923-090	402.07	24	7923-240	2345.07



Reducing Tee

Length (in.)	PVC Part #	Price $ Each	Length (in.)	PVC Part #	Price $ Each
3 x 2	7925	130.12	14 x 10	7935	545.01
4 x 3	7926	156.17	14 x 12	7936	632.40
6 x 4	7927	228.84	16 x 12	7937	692.79
8 x 4	7928	279.37	16 x 14	7938	728.07
8 x 6	7929	301.63	18 x 14	7939	819.61
10 x 6	7930	324.07	18 x 16	7940	852.91
10 x 8	7931	392.14	20 x 16	7941	1081.72
12 x 6	7932	424.36	20 x 18	7942	1231.48
12 x 8	7933	383.53	24 x 18	7943	1431.17
12 x 10	7934	516.28	24 x 20	7944	1522.72



90° Elbow

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	7903-020	119.22	C7903-020	213.82
3	7903-030	150.55	C7903-030	231.65
4	7903-040	162.55	C7903-040	269.11
5	7903-050	175.64	N/A	N/A
6	7903-060	198.44	C7903-060	297.26
7	7903-070	219.74	N/A	N/A
8	7903-080	222.63	C7903-080	423.15
9	7903-090	251.06	N/A	N/A
10	7903-100	270.53	C7903-100	600.97
11	7903-110	280.87	N/A	N/A
12	7903-120	307.79	C7903-120	698.52
14	7903-140	354.47	C7903-140	890.78
16	7903-160	462.89	C7903-160	1099.40
18	7903-180	642.34	C7903-180	1395.48
20	7903-200	961.07	C7903-200	1755.52
24	7903-240	1180.81	C7903-240	2658.96



45° Wye

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
3	7905-030	182.66	N/A	N/A
4	7905-040	219.16	N/A	N/A
6	7905-060	336.99	C7905-060	548.13
7	7905-070	397.34	N/A	N/A
8	7905-080	402.54	C7905-080	736.56
9	7905-090	465.97	N/A	N/A
10	7905-100	505.48	C7905-100	991.11
11	7905-110	646.53	N/A	N/A
12	7905-120	669.84	C7905-120	1206.82
14	7905-140	775.93	C7905-140	1451.85
16	7905-160	919.44	C7905-160	1713.20
18	7905-180	1285.58	C7905-180	2099.42
20	7905-200	1535.18	C7905-200	2561.45
24	7905-240	2096.85	C7905-240	3685.29



Butterfly Damper

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	7908-020	238.15	C7908-020	321.84
3	7908-030	247.12	C7908-030	314.79
4	7908-040	257.68	C7908-040	374.43
5	7908-050	289.53	N/A	N/A
6	7908-060	320.86	C7908-060	437.64
7	7908-070	322.39	N/A	N/A
8	7908-080	325.15	C7908-080	540.76
9	7908-090	341.56	N/A	N/A
10	7908-100	358.84	C7908-100	677.74
11	7908-110	382.15	N/A	N/A
12	7908-120	399.39	C7908-120	812.80
14	7908-140	546.29	C7908-140	942.94
16	7908-160	598.20	C7908-160	1103.15
18	7908-180	810.56	C7908-180	1319.58
20	7908-200	964.73	C7908-200	1569.12
24	7908-240	1268.67	C7908-240	2178.12



Blastgate

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	7909-020	221.37	C7909-020	330.18
3	7909-030	286.32	C7909-030	384.13
4	7909-040	268.72	C7909-040	416.02
5	7909-050	291.84	N/A	N/A
6	7909-060	319.35	C7909-060	547.11
7	7909-070	360.56	N/A	N/A
8	7909-080	379.96	C7909-080	675.95
9	7909-090	394.32	N/A	N/A
10	7909-100	406.39	C7909-100	728.79
11	7909-110	463.15	N/A	N/A
12	7909-120	486.80	C7909-120	874.00
14	7909-140	665.18	C7909-140	1036.23
16	7909-160	700.43	C7909-160	1225.72
18	7909-180	863.39	C7909-180	1499.56
20	7909-200	1007.24	C7909-200	2341.89
24	7909-240	1299.34	C7909-240	2420.17



45° Reducing Wye*

Length (in.)	PVC Part #	Price $ Each
8 x 4	7956	402.53
10 x 6	7957	430.75
12 x 8	7958	477.75
14 x 10	7959	596.84
16 x 12	7960	675.05
18 x 14	7961	1079.68

* Other sizes available. Contact sales department.

ALSCO™ PVC & CPVC Duct and Fittings

PVC and CPVC Corzan® Duct and Fittings



Rain Cap Style A

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	7906-020	402.53	C7906-020	413.83
3	7906-030	332.00	C7906-030	459.81
4	7906-040	362.07	C7906-040	511.14
5	7906-050	428.15	N/A	N/A
6	7906-060	450.25	C7906-060	631.35
7	7906-070	470.92	N/A	N/A
8	7906-080	494.64	C7906-080	694.52
9	7906-090	513.73	N/A	N/A
10	7906-100	616.33	C7906-100	865.53
11	7906-110	631.47	N/A	N/A
12	7906-120	684.81	C7906-120	961.69
14	7906-140	931.04	C7906-140	1307.49
16	7906-160	1020.35	C7906-160	1532.85
18	7906-180	1469.66	C7906-180	2188.18
20	7906-200	1610.07	C7906-200	2748.05
24	7906-240	1914.33	C7906-240	3440.63



Rain Cap Style B

Size (in.)	PVC Part #	Price $ Each	CPVC Part #	Price $ Each
2	N/A	N/A	C7907-020	474.73
3	7907-030	346.75	C7907-030	516.03
4	7907-040	408.34	C7907-040	573.43
5	7907-050	446.88	N/A	N/A
6	7907-060	477.77	C7907-060	670.79
7	7907-070	500.79	N/A	N/A
8	7907-080	531.22	C7907-080	745.17
9	7907-090	616.06	N/A	N/A
10	7907-100	667.80	C7907-100	937.78
11	7907-110	720.84	N/A	N/A
12	7907-120	749.20	C7907-120	1052.00
14	7907-140	1006.27	C7907-140	1898.78
16	7907-160	1326.76	C7907-160	3286.37
18	7907-180	1614.78	C7907-180	4247.93
20	7907-200	1722.40	C7907-200	4820.01
24	7907-240	2176.44	C7907-240	7546.43



Rainskirt

Size (in.)	PVC Part #	Price $ Per Ft.
2	7924-020	205.88
3	7924-030	227.39
4	7924-040	259.95
6	7924-060	281.63
8	7924-080	303.35
10	7924-100	314.16
11	7924-110	324.93
12	7924-120	379.07
14	7924-140	444.12
16	7924-160	584.99
18	7924-180	650.03
20	7924-200	671.55
24	7924-240	779.95



Rear Exhaust Hood Single Slot

Size (in.)	PVC Part #	Price $ Each
18	7911	911.76
24	7912	987.87
30	7913	1139.85
36	7914	1215.65
42	7915	1369.33
48	7916	1481.64
54	7917	1565.29
60	7918	1633.62
66	7919	1747.65
72	7920	1937.53

Double Slot, Single Lateral and Double Lateral Available

PVC Cement and Primer



Part #	Description	Price
719-G	Cement, Gallon	174.60
719-Q	Cement, Quart	52.95
P-68C-P	Primer, Pint	20.65
P-68C-Q	Primer, Quart	34.40

Polypropylene / Wire Reinforced AIR DUCTING HOSE



Features / Benefits

- Brown or White Polypropylene
- Wire Reinforced
- High Contractibility
- High Extendibility
- Self Supporting
- Lightweight
- Simple Interlock Connection



Custom Molded Cuffs available.

General Applications

- Air conditioning
- Spot cooling and heating systems
- Room air exhaust conveying and ventilation.
- Dust collection
- Chemical Fume removal
- OEM equipment applications

Service Temperature Range -4°F to 175°F

Nominal ID In.	Nominal OD In.	Working Pressure PSI 68°F	Working Pressure PSI 104°F	Vacuum Rating (Inches Hg) 68°F	Vacuum Rating (Inches Hg) 104°F	Min. Radius Bending In. 68°F	Std. Length Ft.	Approx. Wt. Lbs./ Ft.	Part # Brown PP	Part # White PP	Price Per Foot
1 1/2	1.63	20	7	22	14	1.2	20	0.10	5709-015-B	5709-015-W	$ 5.11
2	2.26	13	6	21	12	1.6	20	0.12	5709-020-B	5709-020-W	5.67
2 1/2	2.80	10	5	19	10	2.0	20	0.16	5709-025-B	5709-025-W	6.54
3	3.17	10	5	18	10	2.3	20	0.18	5709-030-B	5709-030-W	7.12
4	4.17	8	4	13	7	3.0	20	0.23	5709-040-B	5709-040-W	8.85
5	5.18	7	3	10	6	4.3	20	0.27	5709-050-B	5709-050-W	9.99
6	6.26	6	3	7	5	5.1	20	0.33	5709-060-B	5709-060-W	12.70
8	8.19	4	2	5	3	7.0	20	0.68	5709-080-B	5709-080-W	18.24
10	10.22	3	1	4	2	9.0	20	0.83	5709-100-B	5709-100-W	22.18
12	12.13	2	1	3	1	11.0	20	0.91	5709-120-B	5709-120-W	25.72

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PVC Flexible Hose & Ducting

Fume Removal Hose





Features:

- Economical alternative to most duct and sacrifices nothing in performance
- Great flexibility with tight bending characteristics
- Ideal for fume removal, dust collection and ventilation applications
- Materials used in CVD-Clear are FDA acceptable (2" - 18")
- Available in metric diameters
- Available in a static conductive version (CVD-SC), consult sales office for minimum requirements

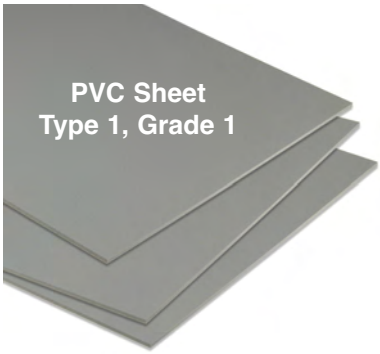
Specifications:

- Temperature Range: -20° F to 180° F
- Construction: Polyvinylchloride reinforced with a wire helix
- Standard Colors: Clear or Blue
- Standard Lengths: 25ft per box, 50ft available by request
- Size Range: 1" to 18"

Part # Clear	Part # Blue	I.D. (inch)	Price Per 25ft Box
CVDC-010	CVDB-010	1	$ 53.50
CVDC-012	CVDB-012	1 1/4	57.50
CVDC-015	CVDB-015	1 1/2	58.75
CVDC-020	CVDB-020	2	79.00
CVDC-022	CVDB-022	2 1/4	108.50
CVDC-025	CVDB-025	2 1/2	111.00
CVDC-030	CVDB-030	3	119.50
CVDC-035	CVDB-035	3 1/2	132.75
CVDC-040	CVDB-040	4	135.50
CVDC-045	CVDB-045	4 1/2	155.00
CVDC-050	CVDB-050	5	156.50
CVDC-055	CVDB-055	5 1/2	158.50
CVDC-060	CVDB-060	6	159.50
CVDC-070	CVDB-070	7	201.75
CVDC-080	CVDB-080	8	222.50
CVDC-090	CVDB-090	9	286.00
CVDC-100	CVDB-100	10	316.50
CVDC-120	CVDB-120	12	347.00
CVDC-140	CVDB-140	14	404.00
CVDC-160	CVDB-160	16	522.00
CVDC-180	CVDB-180	18	632.50

All prices subject to change without notice.

PVC Sheet & Shapes



PVC Sheet Features:

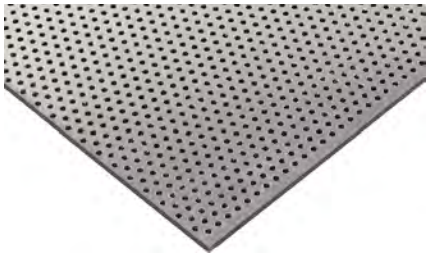
- Chemical Resistance
- Impact Resistant
- Temperatures to 140°F
- Colors: Gray, White, Clear
- Self-Extinguishing
- Easy to Fabricate
- Size 48" x 96"
- Good Thermal & Electrical Insulator

Industries:

- Aircraft
- Pharmaceutical
- Plating
- Pollution Control
- Automotive
- Municipal Waste
- Pulp and Paper
- Food Industry
- Chemical Processing
- Waste Treatment
- Utility Companies
- Water Softening

PVC - Sheet (48"x 96")

Thick. (in.)	Lbs. per Sheet	Part # Gray	Price $	Part # White	Price $	Part # Clear	Price $
1/16	15	3518-G	42.00	3518-W	50.66	3518-C	95.03
3/32	23	3519-G	57.75	3519-W	75.60	-	-
1/8	30	3520-G	68.25	3520-W	78.59	3520-C	182.39
3/16	45	3521-G	101.85	3521-W	120.75	3521-C	273.84
1/4	60	3522-G	135.45	3522-W	156.45	3522-C	364.88
3/8	90	3523-G	202.65	3523-W	238.98	3523-C	547.84
1/2	120	3524-G	270.90	3524-W	317.99	3524-C	729.75
5/8	150	3525-G	370.65	-	-	-	-
3/4	180	3526-G	439.95	3526-W	558.34	-	-
1	240	3527-G	586.95	3527-W	889.35	-	-
1 1/4	300	3528-G	1221.15	-	-	-	-
1 1/2	360	3529-G	1465.80	-	-	-	-
1 3/4	420	3530-G	1866.90	-	-	-	-
2	480	3531-G	2118.90	-	-	-	-



PVC - Perforated Sheet

48"x 96"
Gray
Perforation: 1/8" diameter
Custom perforation available - POA

Thickness	Part #	Price
1/16	3536	192.37
1/8	3538	248.46

PVC - Welding Rod (Round) 48" Sticks (15lb. Coils avail.)

Thick. (in.)	Ft./Lb. - Est. PCs.	Part # Gray	Price/lb. $	Part # White	Price/lb. $	Part # Clear	Price/lb. $
1/8	139 - 34	3532-G	8.70	3532-W	9.40	3532-C	10.90
5/32	89 - 22	3533-G	8.70	3533-W	9.40	3533-C	10.90
3/16	60 - 15	3534-G	8.70	3534-W	9.40	3534-C	10.90

PVC - Angle (Gray, White, & Clear)

10 ft. lengths ±1"

Size (in.)	Wt. /ft.	Part # Gray	Price per ft.	Part # White	Price per ft.	Part # Clear	Price per ft.
1 x 1 x 1/8	.141	3545	1.48	3545-W	1.65	3545-C	2.39
1 1/4x1 1/4x3/16	.262	3546	1.87	3546-W	2.08	3546-C	2.97
1 1/2x1 1/2x3/16	.316	3547	2.15	3547-W	2.39	3547-C	3.58
2 x 2 x 1/4	.563	3548	3.96	3548-W	4.42	3548-C	6.38

PVC - Square Bar (Gray)

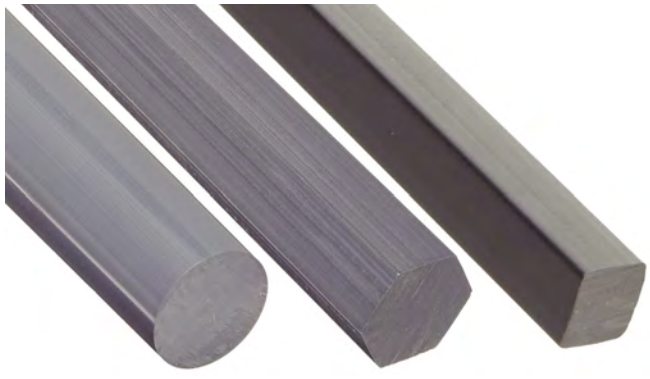
Part #	Size (in.)	Wt. / Ft.	Length (ft.) ± 1"	Price Per Ft.
3549	1/2	.157	10	$ 1.13
3550	3/4	.360	10	2.46
3551	1	.629	10	4.37
3552	1 1/4	1.033	8	7.57
3553	1 1/2	1.464	8	12.13
3554	2	2.452	8	19.24

PVC - Rectangular Bar (Gray)

Part #	Size (in.)	Wt. / Ft.	Length (ft.) ± 1"	Price Per Ft.
3623	1/2 x 3/4	.225	10	$ 1.89

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PVC Shapes



PVC - Solid Round Bar (Gray & Clear)

Part #	Diameter O.D. (in.)		Tolerance Minus 0 & Plus	Length (ft.) ± 1"	Price / Foot
3555	1/4	(.250)	.015	10	.77
3556	3/8	(.375)	.015	10	.92
3557	1/2	(.500)	.020	10	1.02
3558	5/8	(.625)	.020	10	1.23
3559	3/4	(.750)	.025	10	1.73
3560	7/8	(.875)	.025	10	2.31
3561	1	(1.000)	.030	10	3.04
3562	1 1/8	(1.125)	.035	10	3.84
3563	1 1/4	(1.250)	.035	10	4.81
3564	1 3/8	(1.375)	.040	10	5.85
3565	1 1/2	(1.500)	.040	10	6.89
3566	1 5/8	(1.625)	.045	10	8.27
3567	1 3/4	(1.750)	.050	10	9.64
3568	1 7/8	(1.875)	.055	10	10.83
3569	2	(2.000)	.060	10	12.41
3570	2 1/8	(2.125)	.100	5	13.45
3571	2 1/4	(2.250)	.100	5	15.71
3572	2 3/8	(2.375)	.100	5	18.07
3573	2 1/2	(2.500)	.100	5	19.72
3574	2 3/4	(2.750)	.110	5	22.92
3575	3	(3.000)	.120	5	29.19
3576	3 1/2	(3.500)	.140	5	39.97
3577	4	(4.000)	.160	5	49.97
3578	4 1/2	(4.500)	.180	5	90.53
3579	5	(5.000)	.200	5	105.93
3580	5 1/2	(5.500)	.220	5	143.27
3581	6	(6.000)	.240	5	171.44
3555-C	1/4	(.250)	.015	10	.86
3556-C	3/8	(.375)	.015	10	1.20
3557-C	1/2	(.500)	.020	10	1.40
3558-C	5/8	(.625)	.020	10	2.18
3559-C	3/4	(.750)	.025	10	3.16
3560-C	7/8	(.875)	.025	10	4.27
3561-C	1	(1.000)	.030	10	5.62

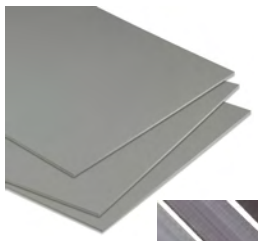
PVC - Hollow Bar (Gray)

Part #	Diameter O.D.	I.D.	Weight / Foot	Length (ft.) ± 1"	Price Per Ft.
3595	1.625	.562	1.154	10	$ 9.39
3596	1.900	.906	1.410	10	11.13
3597	2.000	1.250	1.285	10	9.92
3598	2.125	.750	2.010	10	16.01
3599	2.250	1.125	2.025	10	15.87
3600	2.375	1.000	2.393	10	19.00
3601	2.500	1.000	2.680	10	20.78
3602	2.500	1.500	2.209	10	17.31
3603	2.625	1.500	2.511	10	19.44
3604	2.750	1.000	3.299	10	26.13
3605	3.000	1.000	3.976	10	30.62
3606	3.000	1.250	3.770	10	29.07
3607	3.000	1.500	3.375	10	26.12
3608	3.000	2.000	2.798	10	21.56
3609	3.250	1.250	4.506	10	34.72
3610	3.500	1.500	5.037	10	38.85
3611	3.563	1.500	5.245	10	40.84
3612	4.000	2.500	5.153	10	39.80
3613	4.250	1.750	7.452	10	57.39
3614	4.500	2.000	8.099	10	62.43
3615	4.750	3.000	7.069	10	54.45
3616	5.000	3.000	8.217	5	68.35
3617	5.563	4.000	7.954	5	66.19
3618	6.000	2.437	15.200	5	130.15
3619	6.000	4.000	11.190	5	96.28
3620	6.625	2.875	18.030	5	155.12
3621	6.625	4.000	14.910	5	124.64
3622	8.625	5.750	21.400	5	191.09

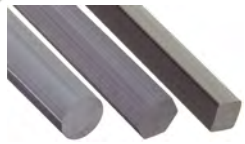
PVC - Hexagonal Bar (Gray)

Part #	Size Across Flats (in.)		Weight / Foot	Length (ft.) ± 1"	Price Per Ft.
3582	7/16	0.4375	.108	10	$ 1.03
3583	1/2	0.5000	.142	10	1.22
3584	9/16	0.5625	.180	10	1.43
3585	5/8	0.6250	.222	10	1.85
3586	3/4	0.7500	.320	10	2.54
3587	13/16	0.8125	.375	10	3.07
3588	7/8	0.8750	.435	10	3.51
3589	1	1.0000	.569	10	4.49
3590	1 1/8	1.1250	.721	10	6.77
3591	1 1/4	1.2500	.890	10	8.39
3592	1 3/8	1.3750	1.080	10	10.22
3593	1 1/2	1.5000	1.283	10	12.18
3594	2	2.0000	2.280	10	21.59

CPVC Sheets & Shapes



CPVC Sheet



CPVC Shapes

CPVC Sheet Features:

- Chemical Resistance
- Easy to Fabricate / harder than PVC
- Temperatures to 212°F
- Color: Gray
- Self-Extinguishing
- High Tensile Strength
- Size 48" x 96"
- Good Thermal & Electrical Insulator

Industries:

- Aircraft
- Pharmaceutical
- Plating
- Pollution Control
- Automotive
- Municipal Waste
- Pulp and Paper
- Food Industry
- Chemical Processing
- Waste Treatment
- Utility Companies
- Water Softening

CPVC - Sheet (48"x 96") Gray

Part #	Thickness (in.)	Lbs. Sheet	Price Per Sheet
3624	1/8	34	$ 346.50
3625	3/16	52	554.40
3626	1/4	67	693.00
3627	3/8	101	1039.50
3628	1/2	134	1386.00
3629	5/8	168	1697.85
3630	3/4	202	2079.00
3631	1	269	2772.00
3632	1 1/4	337	3638.25
3633	1 1/2	404	4331.25
-	-	-	-
3635	2	539	5717.25

CPVC - Welding Rod (Round) 48" Sticks or Coils

Part #	Thickness (in.)	Feet./ Lb. - Est. PCs.	Price Per Pound
3636	1/8	118 - 29	$ 19.00
3637	5/32	75 - 18	19.00
3638	3/16	52 - 13	19.00

Note: To order 15 lb. coil add -C to end of Part #
Example: 3636-C

CPVC - Solid Round Bar (Gray)

Part #	Diameter O.D. (in.)	Tolerance Minus 0 & Plus	Length (ft.) ± 1"	Price Per Ft.
3639	1/2 (.500)	.020	10	$ 1.65
3640	3/4 (.750)	.025	10	3.49
3641	1 (1.000)	.030	10	6.06
3642	1 1/4 (1.250)	.035	10	8.77
3643	1 1/2 (1.500)	.040	10	14.96
3644	2 (2.000)	.060	5	27.01
3645	2 1/2 (2.500)	.100	5	65.08

CPVC - Hollow Bar (Gray)

Part #	Diameter O.D.	Diameter I.D.	Weight / Foot	Length (ft.) ± 1/2"	Price Per Ft.
3646	1.625	.562	1.288	5	$ 19.98
3647	2.125	.750	2.243	5	34.77
3648	2.250	1.125	2.260	5	35.04
3649	2.375	1.000	2.671	5	41.42
3650	2.625	1.500	2.802	5	43.46
3651	2.750	1.000	3.682	5	57.11
3652	2.875	1.500	3.525	5	54.66
3653	3.000	1.250	4.207	5	65.21
3654	3.563	1.500	5.853	5	90.72
3655	4.000	2.500	5.751	5	89.18
3656	4.250	1.750	8.316	5	128.94
3657	4.750	3.000	7.889	5	122.31
3658	5.000	3.000	9.170	5	142.16
3659	6.625	2.875	20.121	5	312.27
3660	6.625	4.000	16.640	5	258.24

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ALSCO™ Polypropylene & Polyethylene Sheets



PP - Natural, White & Black Sheets
PE - Natural & Black Sheets

Fabrication

Our trained technicians can build to your specifications most any shape. Applications are Plating Equipment, Tanks, Ductwork, Etchers, Fume Hoods, Scrubbers, Machined Parts and many others.

These materials are excellent for fabrication. They may be heat formed, shaped or welded for most any job.

Polypropylene

- Chemical Resistance
- Lightweight
- Temp. to 212°F
- Impact Resistant
- Abrasion Resistance
- Easily Fab

Polyethylene

- Impact and Corrosion Resistant
- Temp. to 140°F
- Abrasion Resistant
- High Density
- Smooth Surface

Polypropylene Sheet / 48"x 96"

Thick. (in.)	Lbs. Sheet	Natural Part #	Price $	White Part #	Price $	Black Part #	Price $
1/16	8.4	3661	75.42	N/A	N/A	N/A	N/A
3/32	14.1	3662	112.58	N/A	N/A	N/A	N/A
1/8	18.8	3663	57.90	3663-W	61.60	3663-B	57.90
3/16	28.2	3664	86.24	3664-W	88.28	3664-B	86.24
1/4	37.6	3665	115.19	3665-W	118.52	3665-B	115.19
3/8	56.4	3666	178.64	3666-W	178.02	3666-B	178.64
1/2	75.1	3667	231.62	3667-W	236.54	3667-B	231.62
5/8	94.0	3668	287.67	N/A	N/A	N/A	N/A
3/4	112.6	3669	452.76	3669-W	456.36	3669-B	452.76
1	150.4	3670	458.55	3670-W	473.09	3670-B	458.55
1 1/4	188.0	3671	756.45	N/A	N/A	N/A	N/A
1 1/2	225.0	3672	905.52	N/A	N/A	N/A	N/A
1 3/4	263.0	3673	1323.48	N/A	N/A	N/A	N/A
2	300.0	3674	1568.95	N/A	N/A	N/A	N/A
2 1/2	375.1	3675	2618.86	N/A	N/A	N/A	N/A
3	450.0	3676	3700.44	N/A	N/A	N/A	N/A

Polyethylene Sheet / HDPE / 48"x 96"

Thick. (in.)	Lbs. Sheet	Natural Part #	Price $	Black Part #	Price $
1/16	9.6	3677	60.80	N/A	N/A
3/32	14.4	3678	148.28	N/A	N/A
1/8	20.0	3679	60.37	N/A	N/A
3/16	30.0	3680	89.94	3680-B	89.94
1/4	40.0	3681	119.87	3681-B	119.87
3/8	60.0	3682	179.87	3682-B	179.87
1/2	80.0	3683	239.75	3683-B	239.75
5/8	100.0	3684	299.69	N/A	N/A
3/4	120.0	3685	359.74	3685-B	359.74
1	169.0	3686	479.49	3686-B	479.49
1 1/4	200.0	3687	674.52	N/A	N/A
1 1/2	240.0	3688	809.42	N/A	N/A
1 3/4	280.0	3689	1382.30	N/A	N/A
2	320.0	3690	1498.43	N/A	N/A

Note: Thicker gauges, and special cuts are available on special request for most sheet material.

Polypropylene - Welding Rod 48" Sticks or Coils

Part #	Thickness (in.)	Feet./ Lb. - Est. PCs.	Price Per Pound
3691	1/8	210 - 52	$ 9.90
3692	5/32	135 - 33	9.90
3693	3/16	90 - 22	9.90

NOTE: To order 15 lb. coils add -C to end of Part #
Example: 3691-C

Polyethylene - Welding Rod 48" Sticks or Coils

Part #	Thickness (in.)	Feet./ Lb. - Est. PCs.	Price Per Pound
3694	1/8	200 - 50	$ 9.50
3695	5/32	130 - 32	9.50
3696	3/16	88 - 22	9.50

NOTE: To order 15 lb. coils add -C to end of Part #
Example: 3694-C



Polypropylene Perforated Sheet

48"x 96" / 3/16" Thick
Natural / Stress Relieved

Part #	Perforation Diameter	Price Per Sheet
3697	1/8	$ 128.50
3698	3/16	128.50

● Polypropylene & Polyethylene Round Bar (Natural)

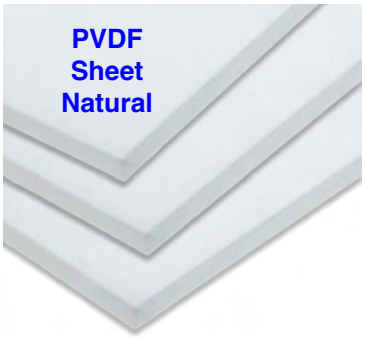
Size (in.)	Part # PP	Price $/FT	Part # PE	Price $/FT
1/4	3699-PP	.53	3699-PE	.45
3/8	3700-PP	.75	3700-PE	.53
1/2	3701-PP	.92	3701-PE	.77
5/8	3702-PP	1.58	3702-PE	1.20
3/4	3703-PP	1.97	3703-PE	1.67
1	3704-PP	3.27	3704-PE	2.63
1 1/4	3705-PP	5.30	3705-PE	4.17
1 1/2	3706-PP	7.27	3706-PE	6.02
1 3/4	3707-PP	10.20	3707-PE	8.32
2	3708-PP	13.32	3708-PE	10.97
2 1/4	3709-PP	17.72	3709-PE	14.00
2 1/2	3710-PP	21.62	3710-PE	17.15
3	3711-PP	32.12	3711-PE	24.70

Other sizes available, contact a sales consultant.

L Polypropylene & Polyethylene Angle Shape (Natural)

Size (in.)	Part # PP & PE	Price per Ft.
1 1/2 x 1 1/2 x 1/4	3712-PP	4.31
1 1/2 x 1 1/2 x 1/4	3712-PE	3.60
2 x 2 x 1/4	3713-PP	5.07
2 x 2 x 1/4	3713-PE	4.46

PVDF Sheets & Rods



Features:

- Corrosion & Solvent Resistance
- Temp. range: -40°F to 302°F
- Flame Retardant - Self-Extinguishing
- High Abrasion Resistance
- Excellent Insulating & Dielectric Properties
- High Purity & High Strength
- Excellent Fabrication Capabilities

Industry:

- Semiconductor
- Pharmaceutical
- Chemical Processing
- Metal Finishing
- Pulp and Paper

Applications:

- Pipeline systems
- Tanks
- Machined Parts
- Bins & Liners
- Equipment & apparatus components

PVDF Sheet - Natural (48" x 96")

Part #	Thickness (in.)	Lbs. Sheet	Price Per Sheet
3723	1/4	74	$ POA
3724	3/8	111	POA
3725	1/2	148	POA
3726	5/8	185	POA
3727	3/4	222	POA
3728	1	296	POA
3729	1 1/4	370	POA
3730	1 1/2	444	POA

NOTE: POA - Price On Application

PVDF - Solid Rod

Part #	Nominal OD mm	(in.)	Weight / Lbs.	Rod Length (in.)	Price Per Rod
3757	15	.591	.73	39.4	$ POA
3758	20	.787	1.29	39.4	POA
3759	25	.984	2.01	39.4	POA
3760	30	1.181	2.87	39.4	POA
3761	40	1.575	5.09	39.4	POA
3762	50	1.969	7.95	39.4	POA
3763	60	2.362	11.39	39.4	POA
3764	80	3.150	20.32	39.4	POA
3765	90	3.543	25.72	39.4	POA

PVDF - Welding Rod (Round) 48" Sticks or Coils

Part #	Thickness (in.)	Feet./ Lb.	Price Per Pound
3733	1/8	100	$ POA
3734	5/32	67	POA
3735	3/16	45	POA

NOTE: To order 15 lb. coil add -C to end of Part #
Example 3733-C

All prices subject to change without notice.

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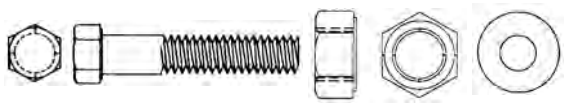
ALSCO™ PVC/PP Bolts • Nuts • Washers

- Corrosion Resistant
- Lightweight
- Chemical Resistant
- Non - Magnetic

Also available in:
• CPVC • PTFE

For Fiberglass Fasteners,
See our Fiberglass Section

• Hex Head Screw • Hex Nut • Flat Washer





PVC - HEX HEAD CAP SCREWS

Length	1/4" - 20		5/16" -18		3/8" -16		1/2" -13		5/8" -11		3/4" -10	
(in)	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price
1/2	8311	$ .65	8327	$ .69	8343	$ .85	-	-	-	-	-	-
3/4	8312	.69	8328	.85	8344	.95	-	-	-	-	-	-
1	8313	.85	8329	.97	8345	1.05	8361	2.35	-	-	-	-
1 1/4	8314	.95	8330	1.05	8346	1.16	-	-	-	-	-	-
1 1/2	8315	1.05	8331	1.15	8347	1.25	8363	2.64	8376	5.08	8388	5.77
1 3/4	-	-	-	-	-	-	-	-	-	-	-	-
2	8317	1.15	8333	1.46	8349	1.68	8365	3.33	8378	5.77	8390	6.64
2 1/4	-	-	-	-	-	-	-	-	-	-	-	-
2 1/2	8319	2.29	8335	2.40	8351	2.60	8367	4.69	8379	5.87	8391	7.52
3	8320	2.60	8336	2.72	8352	3.03	8368	5.18	8380	6.25	8392	8.41
3 1/2	-	-	-	-	-	-	8369	10.16	8381	11.04	8393	13.68
4	-	-	-	-	-	-	8370	10.85	8382	12.89	8394	14.85
4 1/2	-	-	-	-	-	-	-	-	-	-	8395	15.74
5	-	-	-	-	-	-	-	-	-	-	8396	18.57
5 1/2	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-

PVC - HEX NUTS • WASHERS • THREADED ROD

	1/4" - 20		5/16" -18		3/8" -16		1/2" -13		5/8" -11		3/4" -10	
	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price
Hex Nuts	8399	$ .29	8402	$ .42	8405	$ .45	8408	$ 1.65	8411	2.64	8414	2.93
Washers	8400	.15	8403	.24	8406	.26	8409	.95	8412	1.17	8415	1.37
Threaded Rod *	8401	6.25	8404	8.80	8407	8.20	8410	8.79	8413	11.53	8416	13.49

* PVC Threaded Rod sold in 5 foot lengths, price per foot.

POLYPRO - HEX HEAD CAP SCREWS

Length	1/4" - 20		5/16" -18		3/8" -16		1/2" -13		5/8" -11		3/4" -10	
(in)	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price
1/2	8633	$ 1.77	8681	$ 1.96	8689	$ 2.73	-	-	-	-	-	-
3/4	8634	1.85	8682	2.06	8690	2.83	-	-	-	-	-	-
1	8635	2.06	8683	2.35	8691	3.23	8697	4.89	-	-	-	-
1 1/4	8636	2.35	8684	2.73	8692	3.71	-	-	-	-	-	-
1 1/2	8637	2.64	8685	2.93	8693	4.60	8698	5.66	8796	9.18	8806	10.45
2	8638	3.04	8686	3.42	8694	4.79	8699	6.93	8797	9.68	8807	11.04
2 1/2	8639	4.89	8687	5.87	8695	6.54	8794	9.39	8798	9.97	8808	12.12
3	8680	5.37	8688	6.64	8696	7.43	8795	10.35	8799	10.55	8809	13.49

POLYPRO - HEX NUTS • WASHERS • THREADED ROD

	1/4" - 20		5/16" -18		3/8" -16		1/2" -13		5/8" -11		3/4" -10	
	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price	Part #	Price
Hex Nuts	8810	$ 1.08	8813	$ 1.66	8815	$ 1.77	8818	$ 3.42	8821	$ 6.45	8824	$ 9.68
Washers	8811	.58	8814	.69	8816	.79	8819	2.35	8822	2.73	8825	3.23
Threaded Rod *	8812	11.24	-	-	8817	11.93	8820	17.88	8823	28.33	8826	31.27

* Polypro Threaded Rod sold in 4 foot lengths, price per foot.

Custom Casework and Hoods

Thermoplastic Casework





CSSI fabricates casework for extreme conditions typically found in trace metal and marine labs, or other acid environments using corrosion resistant polypropylene.

Our standard size white polypropylene base and wall cabinets are fabricated to the specifications found on the links below, or we can easily alter the dimensions to your exact needs. Select your desired details such as vented, sliding, or clear polycarbonate doors; recessed or raised drawer pulls; and adjustable or fixed shelves.

We also will fabricate the casework for special conditions using white PVC for exterior usage where UV light is an issue, or using fire retardant polypropylene.

Our quality craftsmanship is reflected in the details. All pieces are plastic welded for maximum durability. We use all plastic drawer stops, polypropylene encapsulated magnetic door catches, and either plastic or stainless steel hardware. We can also supply corrosion resistant epoxy countertops to fit your design.

Additional Options:
- Clear Polycarbonate Doors
- Sliding Doors
- Vented Doors
- Stainless Steel Handles
- Recessed Handles on Drawers
- Handle-Free Construction on Doors

PP, PVC, CPVC Fume Hoods



CSSI's fume hoods are custom made, allowing the placement of electrical components, plumbing fixtures, and other requested equipment, to be determined by your needs. The hoods are constructed from polypropylene, PVC, or CPVC due to their non-corrosive quality, making them resistant to most acids, bases, and other chemicals. In addition to conventional laboratory hoods we fabricate bypass hoods with an optional HEPA filter, mini work station hoods, and tank hoods.

Features:
- Upper Electrical Compartment for Light Fixture
- Counter Balanced Adjustable Sash Providing Protection to the Operator Against Fumes and Splashes Fabricated from Clear PVC or Polycarbonate
- Perforated Work Surface Complete with Polypropylene Sink and Faucet
- Constructed using Polypropylene Hinges and Hardware
- Adjustable Exhaust Slots on the Back Wall
- Hoods can be Constructed with Storage Space Under the Table with Optional Venting
- Other Tanks or Equipment can be Added to Suit Specific Needs
- Polypropylene Construction Offers Non-Conductive Properties
- Easy Cleaning
- Fire Retardant Polypropylene Construction is Available

NOTE: All CSSI Fabrications are POA - Price On Application





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Custom Scrubbers and Tanks

PP and PVC Scrubbers



CSSI's scrubbers are constructed using PVC or polypropylene for corrosion resistance against both acids and alkaline. Our wet-packed scrubber design is able to efficiently remove chemicals and odors while meeting environmental standards.

In addition to being fully automated with NEMA 4x electric control panel enclosure, CSSI's scrubbers feature the following:

- Packed column for better efficiency and low pressure drop
- Packed column with mist eliminator for liquid particulate capture
- High efficiency removal for both gas and particulates
- Recirculating rate for better removal and pH control
- Recirculating tank can be mounted in remote locations, protecting it from freezing and extreme temperatures
- Liquid discharge can be set continuously or as a batch
- Customized vertical or horizontal applications can be designed and fabricated with quick turnaround time



Our wet-packed scrubbers are manufactured for a variety of commercial industries including:

- Chemical Manufacturing
- Metal Finishing
- Electroplating
- Renewable Energy Products
- Pharmaceuticals
- Research Laboratories







High Temperature Tanks



CSSI manufactures custom designed high temperature euro grey polypropylene tanks to suit your specific needs.

Features:

- Density: 0.92 gm./cm3
- Tensile Strength at Yield: 4,600 PSI
- Continuous Operating Temperature: 239 Degrees Fahrenheit
- Flexural Modulus: 180,000 PSI
- Hardness: 72 Shore D
- 1/4” to 1” Thickness and Custom Fabrication

NOTE: All CSSI Fabrications are POA - Price On Application

Plastic Welders

Wegener Self-Contained Air Supply Hot Air Welding Guns

Exotherm



Features:
- Very handy, compact devices and slim design
- Self-contained powerful air supply
- Brushless blower motor
- Integrated output control
- Heating element safety cutout
- Integrated temperature control, infinitely variable adjustment of welding temperature via push button, display of the actual and target temperature in the plaintext display and heating element safety shut off if the air support fails
- Temperature range up to 600° C, infinitely variable

Technical Data:
- Power Supply: 110 VAC
- Power Consumption: 1000W
- Temperature: up to 600°C (1100°F)
- Airflow (20 °C) contained air supply approx.: 60 l/min
- Noise level: < 70 dB (A)
- Weight approx.: 2 lbs

NOTE: Temperature deviates depending from the welding tip used. A 45 to 60 l/min is recommended for welding.

Exotherm

ALSCO #	Price $
3802	880.00

Airtherm



Features:
- Very handy, compact and slim design
- High volume, self contained air supply
- Integrated output controls
- Heating element protection
- Automatic low air protection
- Temperature range up to 600° C, continuously adjustable

Technical Data:
- Power Supply: 110 VAC
- Power Consumption: 1300W
- Temperature: 20 - 600°C (1100°F)
- Airflow (20 °C) contained air supply approx.: 300 l/min
- Noise level: < 70 dB (A)
- Weight approx.: 3 lbs

NOTE: Temperature deviates depending from the welding tip used. A 45 to 60 l/min is recommended for welding.

Airtherm

ALSCO #	Price $
3795	380.00

NOTE: Includes adaptor nozzle for regular welding tips.

Wegener External Air Supply Hot Air Welding Guns

Autotherm3



Features:
- Integrated temperature control, infinitely variable adjustment of the welding temperature via push button, display of the actual and target temperature in the plaintext display
- Air and electricity supply in one hose package
- Hose connection points diagonally downwards
- Handle incl. nozzle can be turned relative to the hose connection
- Bend protection device at the hose connection
- Safety cutout if the air supply fails
- Heating element safety cutout
- Heating element 1,000 W
- Suitable for connection to blower model DT 1E or DT 2

Technical Data:
- Power Supply: 110 VAC
- Power Consumption: 1000W
- Temperature: up to 600°C (1100°F)
- Airflow (20 °C) external air supply: 40-60 l/min
- Weight approx.: 3.5 lbs

NOTE: Temperature deviates depending from the welding tip used. A 40 to 60 l/min is recommended for welding.

Autotherm3

Description	ALSCO #	Price $
With 13' Cable and Air Supply Hose	3783	750.00
With 26' Cable and Air Supply Hose	3784	760.00

Duratherm



Features:
- Built-in electronic temperature setting
- Air and electrical supply in one hose
- Hose connection angled downwards
- Handle including nozzle fully rotatable
- Strain relief at hose connection
- Insufficient air supply – safety disconnect
- Heating element protection
- Heating element 1,000 W
- Suitable for connection to blower model DT 1E or DT 2

Technical Data:
- Power Supply: 110 VAC
- Power Consumption: 1000W
- Temperature: up to 600°C (1100°F)
- Airflow (20 °C) external air supply: 40 l/min
- Weight approx.: 3.5 lbs

NOTE: Temperature deviates depending from the welding tip used. A 45 to 60 l/min is recommended for welding.

Duratherm

Description	ALSCO #	Price $
With 13' Cable and Air Supply Hose	3785	488.00
With 26' Cable and Air Supply Hose	3786	498.00

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Plastic Welders

Wegener High Frequency Spark Tester



PST 100 Spark Tester

ALSCO #	Price $
3796	696.00

The PST 100 110V High Frequency Spark Tester provides a quick and cost effective method of inspection on thick coatings and linings. Coating and material thicknesses from 1/8" to 1-3/16" (3mm to 30mm) can be tested.

It can be used for testing of welded joints in plastics and rubber, checking vacuum under glass, as well as for thicker coatings and linings in the petro-chemical and pipeline construction industries.

A flexible probe is included with the unit but additional insulated extension rods and electrodes can be supplied if required. However, to ensure the stability of the output voltage, large electrodes should not be used. The recommended maximum size is 6" (150mm.)

Features:
- Lightweight and ergonomic design
- CE compliant
- Pulsed ring output
- Mains powered 110V AC 50/60 Hz (230V model also available)
- Adjustable output voltage 10-55kV
- Power limited output for operator safety
- Other AC and DC models available

Wegener Hot Air Welding Tips



RD Description	ALSCO #	Price $
Free Hand / Fan Welding Tip	3788	49.00



HD Description	ALSCO #	Price $
Tacking Tip for Tack Welding	3787	66.00



SSD Description	Rod Size	ALSCO #	Price $
High Speed Welding Tip	1/8”	3790-3	119.00
	5/32”	3790-4	119.00
	3/16”	3790-5	119.00
	1/4”	3790-6	130.00



SSD/HD Description	Rod Size	ALSCO #	Price $
Combination High Speed / Tacking Tip	1/8”	3791-3	157.00
	5/32”	3791-4	157.00
	3/16”	3791-5	157.00



SSD/HD-OS Description	Rod Size	ALSCO #	Price $
Combination High Speed / Tacking Tip	1/8”	3792-3	167.00
	5/32”	3792-4	167.00



SSD-OS Description	Rod Size	ALSCO #	Price $
High Speed Welding Tip	1/8”	3793-3	119.00
	5/32”	3793-4	119.00



Description	Size	ALSCO #	Price $
Cap Strip Tip for Fluoropolymer Materials	3/8 x 0.080”	3816	225.00
	1/2 x 0.080”	3817	235.00



SD Description	Size	ALSCO #	Price $
High Speed Tip for Fluoropolymer Materials	5/32”	3791	126.00



SD Description	Size	ALSCO #	Price $
High Speed Tip for Cap Strip Rod / Steel Roller	5/8”	3818	293.00



SD Description	Size	ALSCO #	Price $
High Speed Tip with Guide for Cap Strip Rod	5/8”	3819	293.00



Description	Rod Size	ALSCO #	Price $
45° Right or Left Angled SSD Tips	1/8”	3820-3	235.00
	5/32”	3820-4	235.00

Plastic Welders

Wegener Hot Air Welding Gun Accessories



WEG06TDA
Digital temperature gauge with probe
-199.9°C to +999.9°C
Resolution 0.1°C
Readout in °C or °F

ALSCO #	Price $
3821	393.00



MISC071
Cleaning brush for tips (set of 2)

ALSCO #	Price $
3794	8.50



MISC39
Scraper, 1" wide

ALSCO #	Price $
3799	5.00



MISC06
Quarter moon knife

ALSCO #	Price $
3824	57.00



LITE-D
Weg Lite for Autotherm2/Duratherm

ALSCO #	Price $
3825	56.00



MISC40
Red bead removing tool

ALSCO #	Price $
3826	145.00

MISC41
Spare blade

ALSCO #	Price $
3827	49.00



MISC01
Air flow meter
0-100 LPM for hand welders

ALSCO #	Price $
3822	54.00



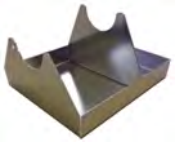
MISC35
File brush for tips

ALSCO #	Price $
3828	7.50



MISC38
Scraper with triangular & tear shaped blades

ALSCO #	Price $
3797	15.00



MISC752
Welder Stand for Autotherm2 or Duratherm

ALSCO #	Price $
3829	19.00



CASE
Multi-purpose shipping case
23"x18"x14"

ALSCO #	Price $
3830	290.00



DVS Technical Codes on Plastics Joining, 2013 Edition

DVS-BK-15
Hardcover Book

ALSCO #	Price $
DVS-BK-15	185.00

DVS-USB-15
USB Stick

ALSCO #	Price $
DVS-USB-15	195.00

Wegener Blowers



Model DT 1E

ALSCO #	Price $
3804	690.00

1 pc. Model DT 1E blower provides enough clean, dry air for one (1) Wegener welding torch. Comes complete with 5' power cable, air flow meter, hose barb and convenient carrying handle. Extremely low operation noise. Heavy duty, lightweight unit for use in the shop or on-site.

Features:
- Power Supply: 115VAC, 60 Hz
- Power Consumption: 2.9 amps
- Dimensions: 8 x 10 x 12"
- Weight: 17 lbs
- Air Capacity: Adjustable up to 70 l/min



Model DT 2

ALSCO #	Price $
3805	995.00

1 pc. Model DT 2 blower provides enough clean, dry air for two (2) Wegener welding torches. Comes complete with 5' power cable, dual power outlets and air flow meters. Extremely low operation noise. Heavy duty, lightweight unit for use in the shop or on-site.

Features:
- Power Supply: 115VAC, 60 Hz
- Power Consumption: 8.4 amps
- Dimensions: 8.5 x 10 x 12"
- Weight: 25 lbs
- Air Capacity: Dual outlets, adjustable up to 70 l/min each

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Plastic Welders

Forsthoff Quick-SE Hot Air Welding Gun

Quick-SE



The new and versatile Forsthoff Quick-SE is the latest generation of light, handy, tried and tested hot air welding tools. It features an ergonomic tapered handle designed for a more comfortable grip and hours of fatigue free operation. As part of the new handle design, the temperature controls and power switch are now conveniently located at the base of the handle.

Quick-SE

Description	ALSCO #	Price $
Quick-SE - 1300W, 120V	F0154S	399.00
Quick-SE - 1600W, 120V	F0151S	399.00
Quick-SE - 1650W, 120V	F0156S	399.00
Quick-SE - 1500W, 230V	F0155S	399.00

NOTE: Tips not included.

Features:

- Air output at 200 liters/min.
- Temperatures up to 1290° F
- 120V 1600W or 230V 1500W
- Easy interchangeable nozzles
- Sleek, ergonomic design
- 1500 hour, quick change brushes
- Well built rugged design
- 1 Year guaranteed industrial quality

Forsthoff Accessories For Hot Air Tools



Description	ALSCO #	Price $
M10 Adaptor Nozzle for Welding	F4007	49.00



Description	ALSCO #	Price $
3mm Round Tip	F5005	94.00
4mm Round Tip	F5006	94.00
5mm Round Tip	F5007	94.00



Description	ALSCO #	Price $
Tacking Tip for M10 Adaptor	F5004	43.00



Description	ALSCO #	Price $
Tacking Tip Hooked for M10 Adaptor	F5017	70.00

All prices subject to change without notice.

Fusion Tools

Equipment for Socket and Butt Fusion Joining

Asahi Proweld Shop 12 (W2500)



Part #	Description	Price
5722000	Proweld Shop 12 (W2500)	30,000.00

Includes: Welding Machine, electric planer, thermostatically controlled mirror, 12" (315) Master clamps, 1 1/2" (50), 2" (63), 2 1/2" (75),3" (90), 4" (110), 6" (160), 8" (200), 10" (250), 12" (315) inserts and 2x3 & 4x6 Poly-Flo inserts

Rental Deposit	Rental-Weekly	Rental-Monthly
$ 500.00	$ 500.00	$ 2,000.00

Asahi Shop 4 Miniplast



Part #	Description	Price
5730000	Shop 4 Miniplast	$13,500.00

Includes: Welding machine, ratchet planer, electronically controlled heating element, holder, flange adapter, master 4" pipe and fitting clamps, 1/2" - 3" pipe and fitting inserts and 1 x 2 & 2 x 3 Poly-Flo inserts

Rental Deposit	Rental-Weekly	Rental-Monthly
$ 500.00	$ 250.00	$ 1,000.00



Part #	Description	Price
9518	Proweld 4" Bench Socket	$15100.00

Includes: Welding machine, electronically controlled heating element, pipe/fitting clamps, heater inserts 3/4" - 4" and case.

Rental		
Deposit	Weekly	Monthly
$ 1200.00	$ 350.00	$ 1200.00

Wegener Hot Air Welding Gun

One Round Nozzle Tip (Shown) for free hand welding included in rental, additional tips available for purchase.



Features:
- **Self-contained blower**
- **Temperature to 1200°F**
- **Voltage 110 VAC, Wattage 1300**
- **Welds rod sizes 1/8", 5/32", 3/16"**

Description	Part #	Price
Purchase Wegener Hot Air Gun	3795	$ 380.00
Deposit	-	200.00
Rental - Daily	-	35.00
Rental - Weekly	-	125.00
Rental - Monthly	-	375.00

Hand Fusion Tool



For manual joining of socket fusion fittings 16mm - 110mm (3/8" - 4").
Thermostatically regulated fusion temperature

Voltage 110V

Part #	1564	1565
Purchase Price	$ 494.50	$ 794.65
Deposit	250.00	350.00
Rental - Daily	33.00	33.00
Rental - Weekly	100.00	100.00
Power Consumption	800 W	1650 W



Part #	Description	Price
9517	Proweld Hand Socket Welder 2"	$775.00

Includes: Thermostatically controlled heater plate and carry case only. (Heater inserts sold separately)

Rental		
Deposit	Weekly	Monthly
$ 300.00	$ 100.00	$ 300.00

Chemtrol Socket Heat Face Sets



Description	Size Code	Price
1/2" Socket Heat Face Set	4820-005	$ 72.95
3/4" Socket Heat Face Set	4820-007	102.20
1" Socket Heat Face Set	4820-010	132.90
1 1/2" Socket Heat Face Set	4820-015	169.70
2" Socket Heat Face Set	4820-020	198.30
3" Socket Heat Face Set	4820-030	480.30
4" Socket Heat Face Set	4820-040	535.00
6" Socket Heat Face Set	4820-060	1723.00

The heat face set consists of a male and female component. This is a matched set and cannot be ordered separately.



Asahi Heater Inserts W3500

Size (in.)	Part #	Price
1/2	9519-005	83.00
3/4	9519-007	90.00
1	9519-010	140.00
1 1/4	9519-012	162.00
1 1/2	9519-015	172.00
2	9519-020	205.00
3	9519-030	285.00
4	9519-040	367.00

Heater Inserts and Bevelers are not available for rent - For purchase only

Rental Policy for all Rental Tools

Tools are invoiced on the date of shipment. Some machines are subject to a minimum maintenance fee.There is a deposit for all tools rented. Upon return of the tool, credit is issued for deposit less applicable rental, repair, freight charges or minimum maintenance charges. Rental charges end when the rental tool is received at ALSCO or the manufacturer. All tools are invoiced monthly and due upon receipt. Once the customer receives the tool(s), the customer assumes all responsibility and liability for the tool(s), until the equipment reaches ALSCO. All risk of loss, damage, theft or destruction of equipment shall be borne by the customer.

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Fusion Tools

IR Plus® Infrared Butt Fusion Machines



IR-63 Plus®

POA - Price On Application

IR-63, IR-110, IR-225 and IR-315 Plus®
In infrared (IR) fusion joining the fusion areas of the components (pipes, fittings, valves) are heated to fusion temperature without contact to the heating element and joined by means of mechanical pressure without using additional materials.

GF Piping Systems offers a wide range of fusion machines - also for the mobile use and the workshop use.

Features:
- Non-contact Infrared heating
- Completely controlled and repeatable fusion process using our proven overlap system
- Minimized and defined weld bead
- Proven reliability and safe high purity fusion system
- Controlled cooling process based on ambient and bead temperature
- PCMCIA-interface for electronic downloading of fusion data
- Integrated interface for label and standard printers (hard copy printout)

Advantages:
- Up to 50% faster than conventional butt fusion
- Low risk of contamination (non contact to the heating element)
- Minimal, defined bead
- Entirely reproducible fusion
- Low-stress fusion
- Fusion factor over 0.95

Technical Data:
- Range: d20 to d315
- Appropriate materials for IR Plus Fusion: PP-H, PP-n, PE, and PVDF; PFA and ECTFE on request

Fields of Application:
- Industrial Applications
- High Purity Media
- Use in Clean Rooms

BCF® Plus Fusion Machines



BCF® Plus 20-110

POA - Price On Application

BCF® Plus 20-63, 20-110 and 75-110 mm
The fusion joining process consists in transmitting precisely defined thermal energy to the pipe and fitting ends being joined by means of half-shell heating elements. At the same time an elastic, pressurized bladder supports the inside surface of the fusion zone in order to prevent the formation of an internal fusion bead.

Fully automatic process control of the fusion joining process with a fusion joining machine developed in-house by GF Piping Systems permits very simple handling and reproducible fusion quality.

Unsurpassed Fusion Quality:
- No beads
- No crevices
- No transitions
- No dead legs and no micro organic deposits
- Very high weld strength
- Very little stress in the fusion zone, therefore less prone to stress cracking
- Controlled and secured manufacturing processes
- Globally accepted certification training for quality control personnel and installers

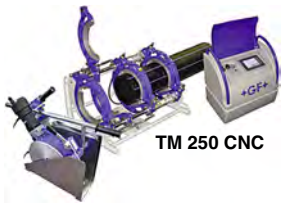
Advantages:
- No dead spaces
- Highest fusion factor (almost 1)
- Nearly no stress in the fusion zone
- Entirely reproducible fusion
- FDA, cGMP, ASME, BPE conform

Technical Data:
- Range: d20 to d110
- Appropriate materials for BCF Plus Fusion: PP-n and PVDF

Fields of Application:
- Industrial Applications
- Life Sciences
- Medical
- Food Industry

Contact Butt Fusion Machines





TM 250 CNC



GF 630 CNC

TM 160, 250 and 315 CNC / GF 400 and 630 CNC
Butt fusion technology is the safe, reliable and favorable joining for a wide dimension range. GF Piping Systems offers mechanical, hydraulic and CNC-guided fusion machines for on site constructions and the workshop. The fusion areas of the pipes and fittings are heated to fusion temperature and joined by means of mechanical pressure, without using additional materials. A homogeneous joint results.

Advantages:
- Short-time joining preparation
- High joining strenth
- Economical
- Perfect suitable for big dimensions
- Precise joining

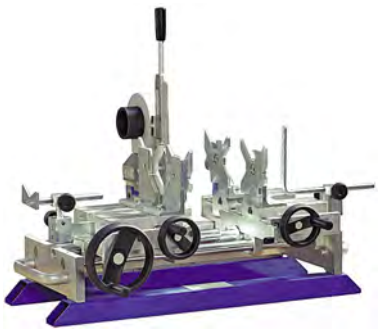
Technical Data:
- Range: Manual: up to d280, Mechanical: d40 to d250, Hydraulic: d40 to d1200, CNC: d40 to d630
- Appropriate materials for Butt Fusion Jointing: PP, PE, PVDF and PB

Fields of Application:
- Universal Use
- Water and Gas Distribution
- Industrial Construction Site
- Workshop
- Building Technology

POA - Price On Application

Fusion Tools

Socket Fusion Machines



SG 125

POA - Price On Application

SG 125 Socket Fusion Machine
In this form of fusion joining, which requires heating tools, the pipe end is inserted into the socket of the fitting; no additional material is used. The pipe end and fitting socket are heated to fusion temperature using a heating bush and a heating spigot, respectively, and are then pushed together.

GF Piping Systems offers a wide range of hand and mechanical guided fusion machines - also for the field-use. The pipe end, fitting socket and heating tools correspond in such a way that the necessary joining pressure is attained during joining, resulting in a homogeneous joint.

Advantages:
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- Short fusion time

Technical Data:
- Range: d20 - d90
- Appropriate materials for Socket Fusion Jointing: PP, PE, PVDF, and PB

Fields of Application:
- Gas and Water Distribution
- Industrial Applications
- Building Technology

Electrofusion Machines

Electrofusion Process
In the electrofusion process a heating wire permanently molded into the fitting gets heated by current at a low voltage. The surrounding material around the wire gets melted and expands due to the warming. The melt starts closing the gap between pipe and fitting, leading to a heat transition to the pipe which also gets heated and melts in the welding zone. The pipe material also expands.

The increasing material expansion between pipe and fitting, which is hindered by the cold zones outside the welding zone, leads to a build up of welding pressure between pipe and fitting and a homogeneous welding connection emerges.

Applications:
The Electrofusion Machines can be used to join the following piping systems:
- Fuseal® PPFR and PPNFR (1 1/2" - 12")
- Fuseal Squared® PPFR and PPNFR (1 1/2" × 4" - 8" × 12")
- Fuseal 25/50™ PVDF (1 1/2" - 6")
- PPro-Seal™ Natural PP (1/2" - 3")

Fields of Application:
- Gas and water applications
- Industrial applications
- Harsh work site use

POA - Price On Application



Electro Plus®

Electro Plus® Features:
- Intuitive user interface
- Multiple joint capability for speedy installations
- Integral carrying case for ease of transportation
- Network and generator compatible for simple operation
- Self-diagnostic system takes the guesswork out of error detection
- Automatic compensation for ambient temperature
- One-button repeat fusion cycle for same size joints



MSA Plus 250

MSA Plus 250, 300, 350 and 400 Features:
- Barcode fusion parameter input
- Multiple joint capability
- Advanced transformer technology
- Network and generator compatible
- Self diagnostic system
- Automatic compensation for ambient temperature
- Network or generator input power capability

Contact Sales Department for more detailed information and pricing on all Fusion Machines.
1-800-849-3030



MSA 340

MSA 330 and 340 Features:
- Intuitive user guidance menu
- Clear and explicit error messages
- USB interface for foolproof data transfer and software update
- Fusion protocol in pdf format
- Choice of either barcode reader or scanner
- Individual configuration to fit your work flow
- Automatic temperature compensation
- Detailed fusion report and traceability data

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PVC Pipe - Schedule 80



Features:
- Full range of IPS sizes in 1/4" - 24" Sch 80
- Choice of plain or belled ends
- NSF STANDARD 14 and 61
- ASTM D-1784 - MATERIAL
- ASTM D-1785 - DIMENSIONS
- Type I, Grade 1 (cell class 12454-B)

NOTE: Threaded PVC pipe has a 50% derating factor on W.P. @ 73°F.

WARNING: PVC products are not recommended for compressed air or gas systems.

PVC Pipe / Schedule 80

Nominal Pipe Size		Approx. WT. / FT. (lbs)	Max. W.P. @ 73.4°F (PSI)	Average O.D. (in.)	Average I.D. (in.)	Average Min. Wall (in.)	Plain End		Belled End	
(in.)	(mm)						Part #	Price $ / Ft.	Part #	Price $
1/4	6.35	.101	1130	.540	.288	.119	803-002	1.35	N/A	N/A
3/8	9.53	.138	920	.675	.407	.126	803-003	2.00	N/A	N/A
1/2	12.7	.205	850	.840	.528	.147	803-005	.65	803-006	.69
3/4	19.05	.278	690	1.050	.724	.154	803-007	.86	803-008	.91
1	25.4	.404	630	1.315	.935	.179	803-010	1.30	803-011	1.37
1 1/4	31.75	.567	520	1.660	1.256	.191	803-012	1.80	803-013	1.89
1 1/2	38.1	.689	470	1.900	1.476	.200	803-015	2.03	803-016	2.14
2	50.8	.949	400	2.375	1.913	.218	803-020	2.81	803-021	2.95
2 1/2	63.5	1.449	420	2.875	2.289	.276	803-025	4.72	803-026	4.97
3	76.2	1.938	370	3.500	2.864	.300	803-030	5.79	803-031	6.09
4	101.6	2.833	320	4.500	3.786	.337	803-040	8.32	803-041	8.76
6	152.4	5.411	280	6.625	5.709	.432	803-060	16.06	803-061	16.90
8	203.2	8.219	250	8.625	7.565	.500	803-080	24.16	803-081	25.43
10	254	12.277	230	10.750	9.492	.593	803-100	35.83	803-101	37.72
12	304.8	17.104	230	12.750	11.294	.687	803-120	49.02	803-121	51.60
14	355.6	21.260	220	14.000	12.410	.750	803-140	70.35	803-141	74.02
16	406.4	27.320	220	16.000	14.214	.843	803-160	111.79	803-161	117.67
18	457.2	31.830	220	18.000	16.014	.937	803-180	136.80	803-181	142.50
20	508	40.091	220	20.000	17.814	1.031	803-200	149.74	803-201	155.99
24	609.6	56.882	210	24.000	21.418	1.218	803-240	221.82	803-241	231.07



Cement and Primer see pages 119-122

IPS produces a wide range of high strength WELD-ON® solvent cements for rigid and flexible PVC and CPVC pipe and fittings. Light, medium, heavy and extra heavy bodied cements are specifically formulated for PVC and CPVC pipe in virtually every schedule, up to large diameter pipe, and in a variety of job tailored cure times. These products are ideal for use with potable water pressure systems, irrigation, turf irrigation, gas, conduit, industrial piping, sewer and drain, waste and vent systems.

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

PVC Fittings - Schedule 80



STANDARDS AND SPECIFICATIONS
NSF STANDARD 14 and 61
ASTM D 1784 - MATERIAL
Type IV, Grade 1 (cell class 12454-B)
Soc. ASTM D-2467 Thr. ASTM D-2464



90° Elbow Socket

Size (in.)	Part #	Price $
1/4	806-002	0.99
3/8	806-003	0.99
1/2	806-005	0.93
3/4	806-007	1.19
1	806-010	1.92
1 1/4	806-012	2.57
1 1/2	806-015	2.75
2	806-020	3.33
2 1/2	806-025	7.79
3	806-030	8.75
4	806-040	13.31
6	806-060	37.88
8	806-080	104.40
10	806-100	849.47
12	806-120	1107.34

Note: Sizes 14" - 24" available.



90° Elbow Socket x FPT

Size (in.)	Part #	Price $
3/8	807-003	4.24
1/2	807-005	4.12
3/4	807-007	4.85
1	807-010	5.25
1 1/4	807-012	6.05
1 1/2	807-015	7.22
2	807-020	9.35
3	807-030	22.33



90° Elbow FPT x FPT

Size (in.)	Part #	Price $
1/4	808-002	2.45
3/8	808-003	2.45
1/2	808-005	2.16
3/4	808-007	2.69
1	808-010	3.38
1 1/4	808-012	3.65
1 1/2	808-015	5.17
2	808-020	5.82
2 1/2	808-025	22.69
3	808-030	36.58
4	808-040	64.36



45° Elbow Socket

Size (in.)	Part #	Price $
1/4	817-002	3.54
3/8	817-003	3.54
1/2	817-005	1.75
3/4	817-007	2.68
1	817-010	4.02
1 1/4	817-012	5.13
1 1/2	817-015	6.06
2	817-020	7.85
2 1/2	817-025	16.49
3	817-030	20.07
4	817-040	36.14
6	817-060	45.52
8	817-080	98.69
10	817-100	564.89
12	817-120	728.68

Note: Sizes 14" - 24" available.



45° Elbow FPT x FPT

Size (in.)	Part #	Price $
1/4	819-002	4.01
3/8	819-003	4.01
1/2	819-005	3.47
3/4	819-007	3.72
1	819-010	4.68
1 1/4	819-012	7.13
1 1/2	819-015	8.96
2	819-020	13.29
2 1/2	819-025	30.42
3	819-030	42.29
4	819-040	60.69



22 1/2° Elbow Socket

Size (in.)	Part #	Price $
1/2	816-005	2.40
3/4	816-007	3.66
1	816-010	5.48
1 1/4	816-012	6.97
1 1/2	816-015	8.25
2	816-020	10.68
2 1/2	816-025	21.95
3	816-030	27.38
4	816-040	49.20
6	816-060	61.95
8	816-080	134.34

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.



Coupling Socket

Size (in.)	Part #	Price $
1/4	829-002	2.91
3/8	829-003	2.85
1/2	829-005	1.69
3/4	829-007	2.28
1	829-010	2.35
1 1/4	829-012	3.58
1 1/2	829-015	3.86
2	829-020	4.14
2 1/2	829-025	10.19
3	829-030	11.70
4	829-040	14.66
6	829-060	31.54
8	829-080	42.93
10	829-100	267.89
12	829-120	308.74
14	829-140	892.76

Note: Sizes 16" - 24" available.



Coupling FPT x FPT

Size (in.)	Part #	Price $
1/4	830-002	2.16
3/8	830-003	2.16
1/2	830-005	1.89
3/4	830-007	2.69
1	830-010	2.89
1 1/4	830-012	3.58
1 1/2	830-015	7.96
2	830-020	8.36
2 1/2	830-025	19.94
3	830-030	23.39
4	830-040	40.50



Tee Socket

Size (in.)	Part #	Price $
1/4	801-002	2.79
3/8	801-003	2.79
1/2	801-005	2.63
3/4	801-007	2.76
1	801-010	3.45
1 1/4	801-012	9.48
1 1/2	801-015	9.48
2	801-020	11.85
2 1/2	801-025	12.88
3	801-030	16.10
4	801-040	18.65
6	801-060	63.69
8	801-080	147.73
10	801-100	887.37
12	801-120	1253.22

Note: Sizes 14" - 24" available.



Tee FPT x FPT x FPT

Size (in.)	Part #	Price $
1/4	805-002	3.21
3/8	805-003	3.21
1/2	805-005	3.04
3/4	805-007	3.38
1	805-010	7.47
1 1/4	805-012	7.92
1 1/2	805-015	9.60
2	805-020	10.32
2 1/2	805-025	37.59
3	805-030	39.25
4	805-040	63.79



Tee Soc x Soc x FPT

Size (in.)	Part #	Price $
1/2	802-005	4.16
3/4	802-007	5.38
1	802-010	6.30
1 1/4	802-012	7.40
1 1/2	802-015	7.91
2	802-020	9.76

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PVC Fittings - Schedule 80



Male Adapter
Socket x MPT

Size (in.)	Part #	Price $
1/2	836-005	1.97
3/4	836-007	2.18
1	836-010	3.77
1 1/4	836-012	4.40
1 1/2	836-015	6.33
2	836-020	9.15
2 1/2	836-025	10.40
3	836-030	11.54
4	836-040	20.54
6	836-060	52.78



Female Adapter
Socket x FPT

Size (in.)	Part #	Price $
1/4	835-002	3.04
3/8	835-003	3.04
1/2	835-005	1.58
3/4	835-007	2.35
1	835-010	3.46
1 1/4	835-012	5.61
1 1/2	835-015	6.87
2	835-020	11.99
2 1/2	835-025	18.93
3	835-030	21.31
4	835-040	36.63
6	835-060	43.37
8	835-080	81.54



Wye
Socket

Size (in.)	Part #	Price $
1/2	875-005	4.47
3/4	875-007	4.70
1	875-010	7.51
1 1/4	875-012	11.52
1 1/2	875-015	11.52
2	875-020	33.06
3	875-030	106.27
4	875-040	131.67
6	875-060	179.83
6 x 4	875-532	137.05
8	875-080	361.65



Cap
Socket

Size (in.)	Part #	Price $
1/4	847-002	2.26
3/8	847-003	2.26
1/2	847-005	1.65
3/4	847-007	1.74
1	847-010	3.10
1 1/4	847-012	3.73
1 1/2	847-015	3.73
2	847-020	7.37
2 1/2	847-025	15.05
3	847-030	17.61
4	847-040	29.69
6	847-060	73.86
8	847-080	94.83
10	847-100	400.85
12	847-120	601.60

Note: Sizes 14" - 24" available.



Cap
FPT

Size (in.)	Part #	Price $
1/4	848-002	2.18
3/8	848-003	2.18
1/2	848-005	2.07
3/4	848-007	2.31
1	848-010	2.91
1 1/4	848-012	3.47
1 1/2	848-015	3.96
2	848-020	7.79
2 1/2	848-025	15.58
3	848-030	18.34
4	848-040	32.29



Plug
MPT

Size (in.)	Part #	Price $
1/4	850-002	1.89
3/8	850-003	1.89
1/2	850-005	1.59
3/4	850-007	1.65
1	850-010	2.03
1 1/4	850-012	2.99
1 1/2	850-015	3.63
2	850-020	3.72
2 1/2	850-025	10.40
3	850-030	12.13
4	850-040	23.62
6	850-060	32.49



Plug
Spig

Size (in.)	Part #	Price $
1/2	849-005	1.54
3/4	849-007	1.72
1	849-010	1.94
1 1/4	849-012	2.86
1 1/2	849-015	2.72
2	849-020	3.59
3	849-030	14.48
4	849-040	22.19



Union
Socket

Size (in.)	EPDM #	Price $	FKM #	Price $
1/4	897-002	6.87	857-002	6.97
3/8	897-003	7.39	857-003	7.48
1/2	897-005	3.41	857-005	3.46
3/4	897-007	4.34	857-007	4.40
1	897-010	4.97	857-010	5.02
1 1/4	897-012	9.85	857-012	9.97
1 1/2	897-015	11.14	857-015	11.29
2	897-020	15.12	857-020	15.30
2 1/2	897-025	27.81	857-025	28.35
3	897-030	28.13	857-030	28.49
4	897-040	38.92	857-040	45.91



Union
FPT x FPT

Size (in.)	EPDM #	Price $	FKM #	Price $
1/4	898-002	7.41	858-002	7.51
3/8	898-003	6.54	858-003	8.06
1/2	898-005	4.01	858-005	3.96
3/4	898-007	5.62	858-007	5.54
1	898-010	7.47	858-010	7.39
1 1/4	898-012	14.26	858-012	14.08
1 1/2	898-015	17.66	858-015	17.44
2	898-020	27.17	858-020	26.83
2 1/2	898-025	41.57	858-025	53.17
3	898-030	68.07	858-030	68.92
4	898-040	79.61	858-040	81.00



Union
Socket x FPT

Size (in.)	EPDM #	Price $	FKM #	Price $
1/4	899-002	7.96	859-002	8.06
3/8	899-003	7.96	859-003	8.06
1/2	899-005	4.48	859-005	4.54
3/4	899-007	6.27	859-007	6.35
1	899-010	8.34	859-010	8.44
1 1/4	899-012	15.94	859-012	16.13
1 1/2	899-015	19.73	859-015	19.97
2	899-020	30.37	859-020	30.76
2 1/2	899-025	46.10	859-025	58.66
3	899-030	72.18	859-030	72.83
4	899-040	88.35	859-040	89.54

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

PVC Fittings - Schedule 80

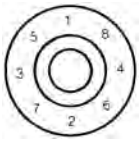


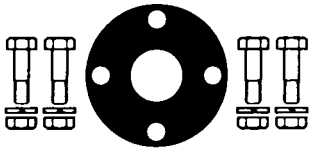
Torque Recommendation
Schedule 80 Plastic Flanges

Flange Size	Recommended Torque *
1/2 - 1 1/2”	10 - 15 ft. lbs.
2 - 4”	20 - 30 ft. lbs.
6 - 8”	33 - 50 ft. lbs.
10”	53 - 75 ft. lbs.
12”	80 - 110 ft. lbs.

* For a well lubricated bolt with flat washers under bolt head and nut.

The following tightening pattern is suggested for the flange bolts.





NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.



1 Piece Flange Socket

Size (in.)	Part #	Price $
1/2	851-005	5.11
3/4	851-007	5.46
1	851-010	6.08
1 1/4	851-012	6.27
1 1/2	851-015	6.40
2	851-020	8.52
2 1/2	851-025	13.15
3	851-030	14.52
4	851-040	18.39
5	851-050	33.46
6	851-060	28.92
8	851-080	51.75



1 Piece Flange FPT

Size (in.)	Part #	Price $
1/2	852-005	6.12
3/4	852-007	7.17
1	852-010	7.85
1 1/4	852-012	10.82
1 1/2	852-015	11.81
2	852-020	12.07
2 1/2	852-025	27.76
3	852-030	28.58
4	852-040	53.69



1 Piece Flange Blind

Size (in.)	Part #	Price $
1/2	853-005	7.17
3/4	853-007	8.53
1	853-010	11.65
1 1/4	853-012	14.31
1 1/2	853-015	14.31
2	853-020	21.38
2 1/2	853-025	34.83
3	853-030	42.03
4	853-040	52.35
6	853-060	63.62
8	853-080	79.63
10	853-100	440.20
12	853-120	685.58



Flange Vanstone Socket

Size (in.)	Part #	Price $
1/2	854-005	5.10
3/4	854-007	5.46
1	854-010	6.08
1 1/4	854-012	6.26
1 1/2	854-015	6.39
2	854-020	8.51
2 1/2	854-025	13.14
3	854-030	14.52
4	854-040	18.36
5	854-050	33.43
6	854-060	28.89
8	854-080	52.69
10	854-100	271.26
12	854-120	400.73

Note: Vanstone = Loose ring



Flange Vanstone FPT

Size (in.)	Part #	Price $
1/2	855-005	6.11
3/4	855-007	7.17
1	855-010	7.84
1 1/4	855-012	10.80
1 1/2	855-015	11.80
2	855-020	12.07
2 1/2	855-025	27.74
3	855-030	28.54
4	855-040	51.89

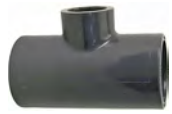
Note: Vanstone = Loose ring



Flange Vanstone Spigot

Size (in.)	Part #	Price $
1/2	856-005	5.13
3/4	856-007	5.50
1	856-010	6.13
1 1/4	856-012	6.32
1 1/2	856-015	6.45
2	856-020	8.57
2 1/2	856-025	13.25
3	856-030	14.63
4	856-040	18.52
6	856-060	29.13
8	856-080	52.11
10	856-100	201.35
12	856-120	217.10

Note: Vanstone = Loose ring



Reducer Tee Socket

Size (in.)	Part #	Price $
3/4 x 3/4 x 1/2	801-101	2.02
1 x 1 x 1/2	801-130	2.91
1 x 1 x 3/4	801-131	2.91
1 1/4 x 1 x 3/4	801-157	5.56
1 1/4 x 1 1/4 x 1	801-168	6.33
1 1/2 x 1 1/4 x 1	801-202	7.32
1 1/2 x 1 1/2 x 1/2	801-209	6.33
1 1/2 x 1 1/2 x 3/4	801-210	6.33
1 1/2 x 1 1/2 x 1	801-211	6.33
1 1/2 x 1 1/2 x 1 1/4	801-212	7.32
2 x 2 x 1/2	801-247	8.02
2 x 2 x 3/4	801-248	8.02
2 x 2 x 1	801-249	8.02
2 x 2 x 1 1/2	801-251	8.02
2 1/2 x 2 1/2 x 2	801-292	10.46
3 x 3 x 2	801-338	14.69
4 x 4 x 1	801-417	29.06
4 x 4 x 1 1/2	801-419	22.55
4 x 4 x 2	801-420	23.74
4 x 4 x 3	801-422	23.74
6 x 6 x 4	801-532	63.69
8 x 8 x 6	801-585	140.34



Cross Socket

Size (in.)	Part #	Price $
1/2	820-005	15.01
3/4	820-007	15.79
1	820-010	18.49
1 1/4	820-012	22.18
1 1/2	820-015	23.91
2	820-020	29.61
2 1/2	820-025	40.38
3	820-030	50.36
4	820-040	87.62
6	820-060	601.57
8	820-080	879.62

Note: 6” & 8” are fabricated. Sizes 10” - 24” available.

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 100318

PVC Fittings - Schedule 80



Reducing Bushing
Spig x Socket



Reducing Bushing
Spig x FPT



Reducing Bushing
MPT x FPT



Reducing Coupling
Socket x Socket



Reducing Coupling
FPT x FPT

Size (in.)	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $
3/8 x 1/4	837-052	1.72	838-052	1.72	839-052	3.67	N/A	N/A	830-052	3.12
1/2 x 1/4	837-072	1.59	838-072	1.59	839-072	3.67	N/A	N/A	830-072	3.20
1/2 x 3/8	837-073	1.59	838-073	1.59	839-073	3.67	N/A	N/A	830-073	3.26
3/4 x 1/4	N/A	N/A	838-098	0.98	839-098	2.53	N/A	N/A	N/A	N/A
3/4 x 3/8	N/A	N/A	838-099	1.14	839-099	2.53	N/A	N/A	N/A	N/A
3/4 x 1/2	837-101	0.54	838-101	0.98	839-101	2.09	829-101	2.07	830-101	2.25
1 x 1/4	N/A	N/A	N/A	N/A	839-128	4.09	N/A	N/A	N/A	N/A
1 x 3/8	N/A	N/A	838-129	1.80	839-129	3.79	N/A	N/A	N/A	N/A
1 x 1/2	837-130	1.56	838-130	1.56	839-130	3.27	829-130	2.89	830-130	3.33
1 x 3/4	837-131	1.56	838-131	1.56	839-131	3.27	829-131	3.01	830-131	3.33
1 1/4 x 1/2	837-166	2.44	838-166	3.16	839-166	3.47	829-166	7.08	830-166	14.97
1 1/4 x 3/4	837-167	2.44	838-167	3.16	839-167	3.47	829-167	7.08	830-167	7.15
1 1/4 x 1	837-168	2.44	838-168	3.16	839-168	3.47	829-168	6.12	830-168	7.71
1 1/2 x 1/2	837-209	3.33	838-209	3.96	839-209	4.76	829-209	6.40	830-209	15.33
1 1/2 x 3/4	837-210	3.33	838-210	3.96	839-210	4.11	829-210	6.40	830-210	11.44
1 1/2 x 1	837-211	3.33	838-211	3.96	839-211	4.11	829-211	6.40	830-211	10.95
1 1/2 x 1 1/4	837-212	3.33	838-212	3.96	839-212	4.11	829-212	7.91	830-212	11.44
2 x 1/2	837-247	4.74	838-247	4.85	839-247	6.02	829-247	7.22	830-247	23.08
2 x 3/4	837-248	4.74	838-248	4.85	839-248	6.02	829-248	7.22	830-248	23.08
2 x 1	837-249	4.74	838-249	4.85	839-249	6.02	829-249	7.22	830-249	15.18
2 x 1 1/4	837-250	4.74	838-250	4.85	839-250	6.02	829-250	7.22	830-250	23.08
2 x 1 1/2	837-251	4.74	838-251	4.85	839-251	6.02	829-251	7.22	830-251	14.09
2 1/2 x 1	837-289	12.75	838-289	11.87	N/A	N/A	N/A	N/A	N/A	N/A
2 1/2 x 1 1/4	837-290	9.53	838-290	11.87	N/A	N/A	N/A	N/A	N/A	N/A
2 1/2 x 1 1/2	837-291	8.24	838-291	10.26	N/A	N/A	829-291	9.63	830-291	31.85
2 1/2 x 2	837-292	8.24	838-292	10.26	839-292	9.44	829-292	9.63	830-292	31.85
3 x 1	837-335	13.07	838-335	21.99	N/A	N/A	N/A	N/A	N/A	N/A
3 x 1 1/4	837-336	13.07	838-336	21.99	N/A	N/A	N/A	N/A	N/A	N/A
3 x 1 1/2	837-337	13.07	838-337	21.99	839-337	12.83	829-337	22.02	830-337	49.84
3 x 2	837-338	13.07	838-338	19.00	839-338	11.09	829-338	17.73	830-338	35.78
3 x 2 1/2	837-339	13.07	838-339	19.00	839-339	12.83	829-339	25.29	830-339	49.84
4 x 2	837-420	18.10	838-420	29.19	839-420	22.86	829-420	33.81	830-420	57.17
4 x 2 1/2	837-421	20.94	838-421	33.78	N/A	N/A	829-421	43.39	830-421	84.63
4 x 3	837-422	18.10	838-422	29.19	839-422	29.19	829-422	33.41	830-422	57.17
6 x 2	837-528	27.66	838-528	38.91	N/A	N/A	N/A	N/A	N/A	N/A
6 x 3	837-530	25.17	838-530	38.91	N/A	N/A	N/A	N/A	N/A	N/A
6 x 4	837-532	25.17	838-532	38.91	N/A	N/A	829-532	68.15	N/A	N/A
8 x 6	837-585	61.22	N/A	N/A	N/A	N/A	829-585	206.39	N/A	N/A
10 x 6	837-626	493.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 x 8	837-628	493.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 x 6	837-666	797.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 x 8	837-668	570.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 x 10	837-670	570.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases.
Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

PVC Fittings - Schedule 80

Spears® Special Reinforced Fittings with Stainless Steel Collars



Tee
Socket x Socket x SR FPT

Size (in.)	Mfg Part #	Price $
1/2	802-005SR	8.93
3/4	802-007SR	12.63
1	802-010SR	14.83
1 1/4	802-012SR	17.65
1 1/2	802-015SR	18.65
2	802-020SR	36.48
3	802-030SR	78.85
4	802-040SR	147.86



Reducing Tee
Socket x Socket x SR FPT

Size (in.)	Mfg Part #	Price $
1/2 x 1/4	802-072SR	8.93
3/4 x 1/4	802-098SR	11.60
3/4 x 1/2	802-101SR	11.60
1 x 1/4	802-128SR	27.46
1 x 1/2	802-130SR	14.32
1 x 3/4	802-131SR	27.46
1 1/4 x 1/4	802-164SR	29.28
1 1/4 x 1/2	802-166SR	19.41
1 1/4 x 1	802-168SR	19.80
1 1/2 x 1/4	802-207SR	34.17
1 1/2 x 1	802-211SR	21.44
1 1/2 x 1 1/4	802-212SR	21.44
2 x 1/4	802-245SR	39.46
2 x 1/2	802-247SR	39.46
2 x 3/4	802-248SR	39.46
2 1/2 x 1/2	802-287SR	29.08
3 x 1/4	802-331SR	75.35
3 x 1/2	802-333SR	77.53
4 x 1/4	802-413SR	103.76
4 x 1/2	802-415SR	112.77



Tee
SR FPT x SR FPT x SR FPT

Size (in.)	Mfg Part #	Price $
1/4	805-002SR	10.39
3/8	805-003SR	10.39
1/2	805-005SR	10.73
3/4	805-007SR	11.79
1	805-010SR	28.02
1 1/2	805-015SR	32.80
2	805-020SR	34.48



90° Ell
Socket x SR FPT

Size (in.)	Mfg Part #	Price $
1/2	807-005SR	8.56
3/4	807-007SR	10.17
1	807-010SR	10.28
1 1/4	807-012SR	13.82
1 1/2	807-015SR	17.07
2	807-020SR	19.59
3	807-030SR	49.74
4	807-040SR	87.88



90° Ell
SR FPT x SR FPT

Size (in.)	Mfg Part #	Price $
3/8	808-003SR	5.00
1/2	808-005SR	5.00
3/4	808-007SR	6.28
1	808-010SR	7.32
1 1/4	808-012SR	7.81
1 1/2	808-015SR	12.19
2	808-020SR	13.73



45° Ell
SR FPT x SR FPT

Size (in.)	Mfg Part #	Price $
1/2	819-005SR	7.10
3/4	819-007SR	8.60
1	819-010SR	12.83



Coupling
SR FPT x SR FPT

Size (in.)	Mfg Part #	Price $
1/2	830-005SR	4.08
3/4	830-007SR	5.82
1	830-010SR	6.22
1 1/4	830-012SR	7.75
1 1/2	830-015SR	17.14
2	830-020SR	17.97



Reducing Coupling
SR FPT x SR FPT

Size (in.)	Mfg Part #	Price $
3/4 x 1/2	830-101SR	5.29
1 x 1/2	830-130SR	7.85
1 x 3/4	830-131SR	7.85
1 1/4 x 1	830-168SR	16.86
1 1/2 x 3/4	830-210SR	25.03
1 1/2 x 1	830-211SR	25.03
1 1/2 x 1 1/4	830-212SR	25.03
2 x 1	830-249SR	33.18
2 x 1 1/2	830-251SR	33.18



Cap
SR FPT

Size (in.)	Mfg Part #	Price $
1/4	848-002SR	4.46
3/8	848-003SR	4.46
1/2	848-005SR	4.88
3/4	848-007SR	6.26
3	848-030SR	38.60



Reducer Bushing Flush Style
Spigot x SR FPT

Size (in.)	Mfg Part #	Price $
1 x 1/4	838-128SR	3.66
1 1/2 x 1/4	838-207SR	6.69
1 1/4 x 1/2	838-166SR	9.34
1 1/2 x 1/2	838-209SR	9.34
1 1/2 x 3/4	838-210SR	9.34
2 x 1/2	838-247SR	11.43
2 x 3/4	838-248SR	11.43
2 x 1	838-249SR	11.43
3 x 3/4	838-334SR	44.75
3 x 1	838-335SR	44.75
3 x 1 1/4	838-336SR	44.75
3 x 1 1/2	838-337SR	44.75
6 x 2	838-528SR	79.20
6 x 3	838-530SR	71.31
6 x 4	838-532SR	79.20

CPVC Available.
Contact Sales Department.



Reducer Bushing
MPT x SR FPT

Size (in.)	Mfg Part #	Price $
1 x 1/4	839-128SR	6.62
1 1/2 x 1/2	839-209SR	9.68
1 1/2 x 3/4	839-210SR	9.68
2 x 1/2	839-247SR	14.22
2 x 3/4	839-248SR	14.22
2 x 1	839-249SR	14.22
4 x 2	839-420SR	53.84



Female Spigot Adapter
Spigot x SR FPT

Size (in.)	Mfg Part #	Price $
1/2	878-005SR	4.52
3/4	878-007SR	5.33
1	878-010SR	8.21
1 1/4	878-012SR	13.07
1 1/2	878-015SR	15.67
2	878-020SR	26.09
3	878-030SR	47.96
4	878-040SR	81.42



Female Adapter
Socket x SR FPT

Size (in.)	Mfg Part #	Price $
1/4	835-002SR	6.19
3/8	835-003SR	6.19
1/2	835-005SR	3.44
3/4	835-007SR	5.01
1	835-010SR	7.44
1 1/4	835-012SR	12.03
1 1/2	835-015SR	14.81
2	835-020SR	25.84
2 1/2	835-025SR	40.77
3	835-030SR	45.93
4	835-040SR	78.94
6	835-060SR	102.56



Union 2000 - Socket FPT/FKM
Socket x SR Fipt w/FKM O-ring Seal

Size (in.)	Mfg Part #	Price $
1/2	8059-005SR	9.22
3/4	8059-007SR	12.68
1	8059-010SR	16.48
1 1/4	8059-012SR	31.52
1 1/2	8059-015SR	38.88
2	8059-020SR	59.38
2 1/2	8059-025SR	127.63
3	8059-030SR	145.09
4	8059-040SR	166.59
6	8059-060SR	370.20



Union 2000 - Socket FPT/EPDM
Socket x SR FPT w/EPDM O-ring Seal

Size (in.)	Mfg Part #	Price $
1/2	8099-005SR	8.86
3/4	8099-007SR	12.63
1	8099-010SR	16.29
1 1/4	8099-012SR	28.35
1 1/2	8099-015SR	36.73
2	8099-020SR	59.12
2 1/2	8099-025SR	126.45
3	8099-030SR	140.77
4	8099-040SR	160.65
6	8099-060SR	357.02



Union 2000 - Socket FPT/FKM
SR FPT x SR FPT w/FKM O-ring Seal

Size (in.)	Mfg Part #	Price $
1/2	8058-005SR	9.48
3/4	8058-007SR	12.84
1	8058-010SR	17.19
1 1/4	8058-012SR	32.73
1 1/2	8058-015SR	40.27
2	8058-020SR	62.54
2 1/2	8058-025SR	130.77
3	8058-030SR	148.76
4	8058-040SR	175.12
6	8058-060SR	389.13



Union 2000 - Socket FPT/EPDM
SR FPT x SR FPT w/EPDM O-ring Seal

Size (in.)	Mfg Part #	Price $
1/2	8098-005SR	9.34
3/4	8098-007SR	12.72
1	8098-010SR	16.84
1 1/4	8098-012SR	31.32
1 1/2	8098-015SR	39.39
2	8098-020SR	61.89
2 1/2	8098-025SR	124.93
3	8098-030SR	147.34
4	8098-040SR	169.14
6	8098-060SR	375.92

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PVC Nipples - Schedule 80

PVC Schedule 80 Threaded Nipples



1/8" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	879-005	1.11
1 1/2	879-015	1.11
2	879-020	1.26
2 1/2	879-025	1.33
3	879-030	1.59
3 1/2	879-035	1.67
4	879-040	1.77
4 1/2	879-045	1.66
5	879-050	1.97
5 1/2	879-055	2.05
6	879-060	2.10
7	879-070	2.20
8	879-080	2.50
9	879-090	2.63
10	879-100	3.02
11	879-110	3.12
12	879-120	3.26

1/4" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	880-005	1.16
1 1/2	880-015	1.16
2	880-020	1.42
2 1/2	880-025	1.74
3	880-030	1.90
3 1/2	880-035	2.10
4	880-040	2.20
4 1/2	880-045	2.37
5	880-050	2.39
5 1/2	880-055	2.71
6	880-060	2.50
7	880-070	2.93
8	880-080	3.10
9	880-090	3.19
10	880-100	3.25
11	880-110	3.40
12	880-120	3.55

3/8" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	881-005	1.56
1 1/2	881-015	1.21
2	881-020	1.55
2 1/2	881-025	1.90
3	881-030	1.55
3 1/2	881-035	2.20
4	881-040	1.85
4 1/2	881-045	2.41
5	881-050	2.65
5 1/2	881-055	2.78
6	881-060	2.86
7	881-070	2.98
8	881-080	3.19
9	881-090	3.23
10	881-100	3.34
11	881-110	3.52
12	881-120	3.71

1/2" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	882-005	1.05
1 1/2	882-015	1.05
2	882-020	1.11
2 1/2	882-025	1.11
3	882-030	1.26
3 1/2	882-035	1.26
4	882-040	1.47
4 1/2	882-045	1.47
5	882-050	1.64
5 1/2	882-055	2.32
6	882-060	1.72
7	882-070	2.00
8	882-080	2.14
9	882-090	2.20
10	882-100	2.34
11	882-110	3.41
12	882-120	2.58

3/4" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	883-005	1.11
1 1/2	883-015	1.11
2	883-020	1.11
2 1/2	883-025	1.26
3	883-030	1.26
3 1/2	883-035	1.65
4	883-040	1.72
4 1/2	883-045	1.72
5	883-050	2.05
5 1/2	883-055	2.80
6	883-060	2.14
7	883-070	3.39
8	883-080	2.50
9	883-090	3.91
10	883-100	2.86
11	883-110	4.11
12	883-120	3.24

1" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	884-005	1.47
1 1/2	884-015	2.08
2	884-020	1.64
2 1/2	884-025	1.72
3	884-030	1.86
3 1/2	884-035	2.60
4	884-040	2.14
4 1/2	884-045	2.86
5	884-050	2.58
5 1/2	884-055	3.23
6	884-060	2.94
7	884-070	3.65
8	884-080	3.45
9	884-090	4.26
10	884-100	4.08
11	884-110	4.91
12	884-120	4.72

1 1/4" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	885-005	2.14
2	885-020	2.20
2 1/2	885-025	2.69
3	885-030	2.50
3 1/2	885-035	2.86
4	885-040	2.86
4 1/2	885-045	3.32
5	885-050	3.48
5 1/2	885-055	3.88
6	885-060	3.66
7	885-070	4.18
8	885-080	4.40
9	885-090	4.78
10	885-100	5.13
11	885-110	5.49
12	885-120	5.81

1 1/2" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	886-005	2.34
2	886-020	2.58
2 1/2	886-025	2.97
3	886-030	2.94
3 1/2	886-035	3.42
4	886-040	3.92
4 1/2	886-045	4.41
5	886-050	4.57
5 1/2	886-055	5.07
6	886-060	4.72
7	886-070	5.38
8	886-080	5.81
9	886-090	6.36
10	886-100	6.49
11	886-110	7.15
12	886-120	7.84

2" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	887-005	3.07
2	887-020	3.57
2 1/2	887-025	3.78
3	887-030	3.66
3 1/2	887-035	4.28
4	887-040	5.07
4 1/2	887-045	5.48
5	887-050	5.88
5 1/2	887-055	6.57
6	887-060	6.74
7	887-070	7.13
8	887-080	7.45
9	887-090	9.34
10	887-100	10.13
11	887-110	10.87
12	887-120	11.61

2 1/2" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	888-005	10.52
2 1/2	888-025	11.99
3	888-030	11.99
3 1/2	888-035	13.71
4	888-040	15.50
4 1/2	888-045	15.50
5	888-050	17.47
5 1/2	888-055	17.47
6	888-060	19.13
7	888-070	20.16
8	888-080	21.13
9	888-090	24.45
10	888-100	25.91
11	888-110	28.08
12	888-120	28.28

3" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	889-005	12.56
3	889-030	13.71
3 1/2	889-035	16.01
4	889-040	18.31
4 1/2	889-045	18.31
5	889-050	20.53
5 1/2	889-055	20.53
6	889-060	25.64
7	889-070	27.06
8	889-080	27.86
9	889-090	29.30
10	889-100	31.89
11	889-110	34.15
12	889-120	34.73

4" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	890-005	20.53
2 1/2	890-025	21.52
3	890-030	21.52
3 1/2	890-035	25.74
4	890-040	28.49
4 1/2	890-045	28.49
5	890-050	28.49
5 1/2	890-055	28.49
6	890-060	30.52
7	890-070	33.49
8	890-080	35.42
9	890-090	35.65
10	890-100	37.88
11	890-110	42.74
12	890-120	49.34

6" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	892-005	22.52
4	892-040	28.79
4 1/2	892-045	31.91
5	892-050	35.03
5 1/2	892-055	38.18
6	892-060	41.66
7	892-070	47.86
8	892-080	54.20
10	892-100	67.12

PVC Nipples - Schedule 80

Machined - PVC Schedule 80 Threaded Nipples



1/4" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	880-005M	1.50
1 1/2	880-015M	1.63
2	880-020M	1.63
3	880-030M	1.99
4	880-040M	2.28
5	880-050M	2.56

3/8" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
1 1/2	881-015M	1.73
2	881-020M	1.85
3	881-030M	2.06
4	881-040M	2.35

1/2" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	882-005M	1.70
1 1/2	882-015M	1.70
2	882-020M	1.78
2 1/2	882-025M	1.92
3	882-030M	2.01
4	882-040M	2.17
4 1/2	882-045M	2.23
5	882-050M	2.25
6	882-060M	2.38
7	882-070M	2.64
8	882-080M	2.86
10	882-100M	3.18
12	882-120M	3.58

Other machined sizes available by custom order.

3/4" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	883-005M	1.90
1 1/2	883-015M	1.90
2	883-020M	2.05
2 1/2	883-025M	2.05
3	883-030M	2.28
3 1/2	883-035M	2.28
4	883-040M	2.42
4 1/2	883-045M	2.56
5	883-050M	2.61
6	883-060M	3.18
8	883-080M	3.66
10	883-100M	4.01
12	883-120M	4.23

1" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	884-005M	2.08
2	884-020M	2.25
2 1/2	884-025M	2.35
3	884-030M	2.49
4	884-040M	2.70
5	884-050M	3.08
6	884-060M	3.36
8	884-080M	3.94
10	884-100M	4.54
12	884-120M	5.09

1 1/4" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	885-005M	2.27
2	885-020M	2.46
3	885-030M	2.78
4	885-040M	3.19
6	885-060M	4.00
12	885-120M	6.03

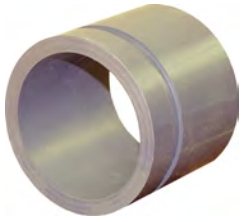
1 1/2" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	886-005M	2.61
2	886-020M	2.78
3	886-030M	3.09
4	886-040M	4.28
5	886-050M	5.19
6	886-060M	5.19
8	886-080M	6.12
10	886-100M	7.00
12	886-120M	8.16

2" Diameter MPT X MPT

Length (in.)	Mfg Part #	Price $
Close	887-005M	3.26
3	887-030M	4.10
4	887-040M	5.30
6	887-060M	6.89

Plain x Grooved - PVC Schedule 80 Nipples



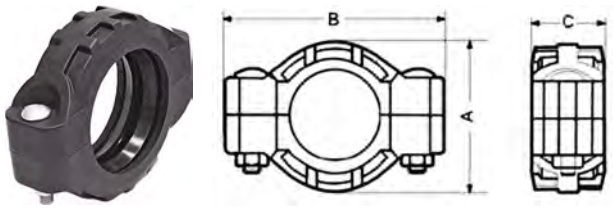
Length (in.)	1 1/2" Diameter		2" Diameter		3" Diameter		4" Diameter		6" Diameter	
	Mfg Part #	Price $	Mfg Part #	Price $	Mfg Part #	Price $	Mfg Part #	Price $	Mfg Part #	Price $
3	886-030PG	3.09	887-030PG	4.10	889-030PG	13.71	890-030PG	21.52	892-030PG	24.18
4	886-040PG	4.28	887-040PG	5.30	889-040PG	18.31	890-040PG	28.49	892-040PG	28.79
6	886-060PG	5.19	887-060PG	6.89	889-060PG	25.64	890-060PG	28.68	892-060PG	41.66

NOTE: Custom lengths and sizes available.

All prices subject to change without notice.

Grooved Pipe Couplings

Nylon Grooved Pipe Couplings



Nylon Grooved Pipe Couplings

Size (in.)	Pipe OD (in.)	Max PSI at 70°F	Coupling Dimensions (in.)			Approx. Weight (lbs)	Part #	Price $
			A	B	C			
1	1.315	300	2.042	3.740	1.732	0.511	300-100	19.18
1 1/4	1.660	300	2.874	5.118	1.732	0.572	300-125	20.68
1 1/2	1.900	300	3.110	4.764	1.732	0.773	300-150	24.38
2	2.375	300	3.583	5.315	1.772	0.918	300-200	28.60
2 1/2	2.875	300	4.094	5.709	1.772	0.995	300-250	38.68
3	3.500	300	4.921	6.535	1.772	1.169	300-300	43.24
4	4.500	200	6.197	8.150	2.047	1.320	200-400	66.30
6	6.625	200	8.937	11.102	2.047	3.542	200-600	119.60
8	8.625	150	11.063	9.606	2.520	6.710	150-800	175.46

The nylon grooved pipe coupling is designed to solve corrosion problems in low pressure piping systems. The couplings are manufactured with high quality reinforced nylon injected through high temperature. The couplings have high strength and toughness, and very good corrosion resistance performance.

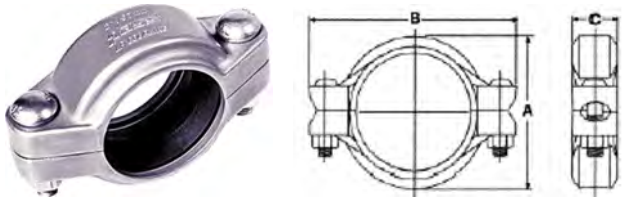
Housings: Nylon

Rubber Gaskets: The gasket seals are made of EPDM for cold water, hot water, rare acid, oil-free air and multiple chemical products. It is not suitable for petroleum.

Bolts & Nuts: Round-head, elliptoid-neck, carriage bolts 304 stainless steel

3

Stainless Steel Grooved Pipe Couplings



Stainless Steel Grooved Pipe Couplings

Size (in.)	Pipe OD (in.)	Max PSI at 70°F	Coupling Dimensions (in.)			Approx. Weight (lbs)	Part #	Price $
			A	B	C			
3/4	1.06	350	1.85	3.31	1.62	0.75	075-304-350	21.78
1	1.32	350	2.05	3.54	1.62	0.75	100-304-350	22.10
1 1/4	1.67	350	2.40	3.93	1.65	0.90	125-304-350	23.74
1 1/2	1.90	350	2.64	4.19	1.65	0.90	150-304-350	26.00
2	2.38	350	3.19	4.76	1.65	1.10	200-304-350	30.56
2 1/2	2.88	350	3.86	5.80	1.69	1.65	250-304-350	41.28
3	3.50	250	4.37	6.34	1.69	1.90	300-304-350	52.00

The stainless steel grooved pipe coupling is a great economical and reliable choice. Made of high quality 304 stainless steel and an EPDM gasket, this flexible coupling is designed for low pressure applications up to 350 PSI.

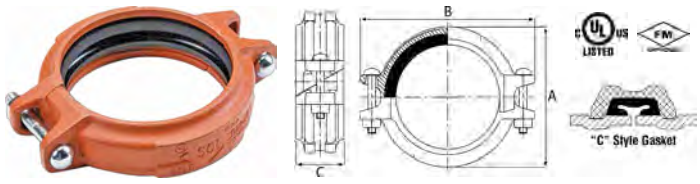
Housings: 304 Stainless Steel - ASTM A351 CF8

Gaskets: EPDM

Bolts & Nuts: 304 SST, round head, elliptoid neck, carriage bolts and nuts

Options Available
- 316SST
- 600 PSI
- Super Duplex
- Sizes to 12”

Ductile Iron Grooved Pipe Couplings



Ductile Iron Grooved Pipe Couplings / Painted / EPDM / “C” Gasket

Size (in.)	Pipe OD (in.)	Max Pipe End Gap	Weight (lb)	Dimensions (in.)			Part #	Price $
				A	B	C		
1 1/4	1.660	1/16	1.3	2.66	4.09	1.85	65LR3012	10.60
1 1/2	1.900	1/16	1.4	2.93	4.37	1.85	65LR3014	11.06
2	2.375	1/16	1.7	3.44	4.80	1.85	65LR3020	11.88
2 1/2	2.875	1/16	2.0	3.96	5.28	1.85	65LR3024	13.78
3	3.500	1/16	2.2	4.55	5.91	1.85	65LR3030	16.17
4	4.500	1/8	3.4	5.83	7.28	2.01	65LR3040	21.26
5	5.563	1/8	4.4	6.87	8.62	2.01	65LR3050	34.46
6	6.625	1/8	5.4	8.03	9.76	2.01	65LR3060	37.02
8	8.625	1/8	10.5	10.16	12.52	2.52	65LR3080	63.06

Features:
- Maximum working pressure 500 psi (34.5 bar) depending on coupling size and schedule of pipe
- All housings, gaskets and bolts identified by SCI logo
- 100% magnetic particle inspection of each bolt
- Each bolt has a minimum tensile strength of 110,000 psi
- Gaskets are Pre-Lubricated
- Gasket Grade E - EPDM (green stripe) -30˚F (-34˚C) to +230˚F (+110˚C)
- Gasket Grade T - Nitrile (orange stripe) -20˚F (-29˚C) to +180˚F (+82˚C)
- Gasket Grade O - Fluoroelastomer (blue stripe) +20°F (-6°C) to +300°F (+149°C)
- Ductile iron housings conform to ASTM A-536 Grade 65-45-12
- Groove dimensions to AWWA C-606
- Finishes: Orange enamel paint or hot dipped galvanized conforming to ASTM A-153

CPVC Pipe - Schedule 80



Features:

- Designed for temp. to 210°F
- Working Pressure is based at 73.4°F
- NSF Standard 14 and 61
- ASTM D-1784 - Material
- Type IV, Grade 1 (cell class 23447-B)

NOTE: Threaded CPVC pipe has a 50% derating factor on W.P. @ 73°F.

WARNING: CPVC products are not recommended for compressed air or gas systems.

3

CPVC Pipe / Schedule 80

Nominal Pipe Size		Approx. WT. / FT. (lbs)	Max. W.P. @ 73.4°F (PSI)	Average O.D. (in.)	Average I.D. (in.)	Average Min. Wall (in.)	Plain End	
(in.)	(mm)						Part #	Price $ / Ft.
1/4	6.35	.119	1130	.540	.288	.119	1803-002	1.58
3/8	9.53	.162	920	.675	.407	.126	1803-003	2.17
1/2	12.7	.243	850	.840	.528	.147	1803-005	1.59
3/4	19.05	.329	690	1.050	.724	.154	1803-007	2.17
1	25.4	.485	630	1.315	.935	.179	1803-010	3.19
1 1/4	31.75	.669	520	1.660	1.256	.191	1803-012	4.43
1 1/2	38.1	.811	470	1.900	1.476	.200	1803-015	5.38
2	50.8	1.055	400	2.375	1.913	.218	1803-020	7.43
2 1/2	63.5	1.654	420	2.875	2.289	.276	1803-025	11.28
3	76.2	2.213	370	3.500	2.864	.300	1803-030	13.99
4	101.6	3.234	320	4.500	3.786	.337	1803-040	20.39
6	152.4	6.168	280	6.625	5.709	.432	1803-060	39.21
8	203.2	9.058	250	8.625	7.565	.500	1803-080	66.86
10	254	13.429	230	10.750	9.492	.593	1803-100	108.45
12	304.8	18.458	230	12.750	11.294	.687	1803-120	147.04
14	355.6	23.261	220	14.000	12.410	.750	1803-140	POA
16	406.4	29.891	220	16.000	14.214	.843	1803-160	POA
18	457.2	35.419	220	18.000	16.014	.937	1803-180	POA
20	508	45.879	220	20.000	17.814	1.031	1803-200	POA
24	609.6	64.959	210	24.000	21.418	1.218	1803-240	POA

POA - Price On Application



Cement and Primer see pages 119-122

IPS produces a wide range of high strength WELD-ON® solvent cements for rigid and flexible PVC and CPVC pipe and fittings. Light, medium, heavy and extra heavy bodied cements are specifically formulated for PVC and CPVC pipe in virtually every schedule, up to large diameter pipe, and in a variety of job tailored cure times. These products are ideal for use with potable water pressure systems, irrigation, turf irrigation, gas, conduit, industrial piping, sewer and drain, waste and vent systems.

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 110118

CPVC Fittings - Schedule 80



NSF

STANDARDS AND SPECIFICATIONS
NSF STANDARD 14 and 61
ASTM D 1784 - MATERIAL
Type IV, Grade 1 (cell class 23447-B)
Soc. ASTM F-439 Thr. ASTM F-437



90° Elbow Socket

Size (in.)	Part #	Price $
1/4	1806-002	4.68
3/8	1806-003	5.03
1/2	1806-005	1.84
3/4	1806-007	2.34
1	1806-010	3.71
1 1/4	1806-012	8.03
1 1/2	1806-015	8.96
2	1806-020	10.81
2 1/2	1806-025	24.90
3	1806-030	28.18
4	1806-040	51.09
6	1806-060	101.87
8	1806-080	249.60
10	1806-100	1129.19
12	1806-120	1527.80



90° Elbow Socket x FPT

Size (in.)	Part #	Price $
3/8	1807-003	4.46
1/2	1807-005	4.84
3/4	1807-007	5.68
1	1807-010	7.44
1 1/4	1807-012	10.88
1 1/2	1807-015	16.53
2	1807-020	21.22



90° Elbow FPT x FPT

Size (in.)	Part #	Price $
1/4	1808-002	4.91
3/8	1808-003	5.02
1/2	1808-005	2.85
3/4	1808-007	4.26
1	1808-010	5.99
1 1/4	1808-012	11.53
1 1/2	1808-015	12.41
2	1808-020	16.62
2 1/2	1808-025	51.77
3	1808-030	55.22
4	1808-040	87.18



45° Elbow Socket

Size (in.)	Part #	Price $
1/4	1817-002	6.96
3/8	1817-003	7.49
1/2	1817-005	2.24
3/4	1817-007	3.24
1	1817-010	5.16
1 1/4	1817-012	10.11
1 1/2	1817-015	10.37
2	1817-020	11.64
2 1/2	1817-025	23.78
3	1817-030	30.58
4	1817-040	41.83
6	1817-060	128.67
8	1817-080	268.58
10	1817-100	863.53
12	1817-120	1519.24



45° Elbow FPT x FPT

Size (in.)	Part #	Price $
1/4	1819-002	7.22
3/8	1819-003	7.03
1/2	1819-005	6.85
3/4	1819-007	7.52
1	1819-010	8.27
1 1/4	1819-012	14.13
1 1/2	1819-015	14.13
2	1819-020	18.66
2 1/2	1819-025	35.49
3	1819-030	45.99
4	1819-040	72.49



Coupling Socket

Size (in.)	Part #	Price $
1/4	1829-002	4.98
3/8	1829-003	5.36
1/2	1829-005	1.93
3/4	1829-007	2.71
1	1829-010	3.64
1 1/4	1829-012	5.46
1 1/2	1829-015	6.87
2	1829-020	7.98
2 1/2	1829-025	17.76
3	1829-030	19.31
4	1829-040	25.31
6	1829-060	60.03
8	1829-080	161.20
10	1829-100	342.69
12	1829-120	401.38



Coupling FPT x FPT

Size (in.)	Part #	Price $
1/4	1830-002	6.26
3/8	1830-003	6.73
1/2	1830-005	5.15
3/4	1830-007	8.32
1	1830-010	9.44
1 1/4	1830-012	10.00
1 1/2	1830-015	10.76
2	1830-020	12.68
2 1/2	1830-025	22.81
3	1830-030	26.49
4	1830-040	53.35



Tee Socket

Size (in.)	Part #	Price $
1/4	1801-002	4.30
3/8	1801-003	4.63
1/2	1801-005	4.30
3/4	1801-007	4.37
1	1801-010	5.36
1 1/4	1801-012	11.30
1 1/2	1801-015	12.94
2	1801-020	14.41
2 1/2	1801-025	36.43
3	1801-030	36.43
4	1801-040	48.54
6	1801-060	126.75
8	1801-080	364.52
10	1801-100	1217.77
12	1801-120	1882.04



Tee FPT x FPT x FPT

Size (in.)	Part #	Price $
1/4	1805-002	9.54
3/8	1805-003	10.27
1/2	1805-005	9.54
3/4	1805-007	13.74
1	1805-010	14.79
1 1/4	1805-012	14.89
1 1/2	1805-015	15.64
2	1805-020	17.36
2 1/2	1805-025	85.25
3	1805-030	98.96
4	1805-040	234.26



Tee Soc x Soc x FPT

Size (in.)	Part #	Price $
1/2	1802-005	10.91
3/4	1802-007	14.55
1	1802-010	18.19
1 1/4	1802-012	21.36
1 1/2	1802-015	21.36
2	1802-020	26.81

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

CPVC Fittings - Schedule 80



Male Adapter
Socket x MPT

Size (in.)	Part #	Price $
1/2	1836-005	2.50
3/4	1836-007	3.05
1	1836-010	5.14
1 1/4	1836-012	7.58
1 1/2	1836-015	10.23
2	1836-020	13.89
2 1/2	1836-025	38.01
3	1836-030	51.09
4	1836-040	85.88



Female Adapter
Socket x FPT

Size (in.)	Part #	Price $
1/4	1835-002	6.32
3/8	1835-003	6.80
1/2	1835-005	3.13
3/4	1835-007	3.30
1	1835-010	7.64
1 1/4	1835-012	7.82
1 1/2	1835-015	9.11
2	1835-020	15.69
2 1/2	1835-025	30.13
3	1835-030	61.65
4	1835-040	103.12



Wye
Socket

Size (in.)	Part #	Price $
1/2	875-005C	5.36
3/4	875-007C	5.54
1	875-010C	9.33
1 1/4	875-012C	14.13
1 1/2	875-015C	15.18
2	875-020C	37.18
2 1/2	875-025C	118.48
3	875-030C	183.33
4	875-040C	193.83
6	875-060C	265.28
6 x 4	875-532C	207.49



Cap
Socket

Size (in.)	Part #	Price $
1/4	1847-002	3.33
3/8	1847-003	3.59
1/2	1847-005	3.03
3/4	1847-007	4.30
1	1847-010	7.60
1 1/4	1847-012	8.32
1 1/2	1847-015	5.32
2	1847-020	8.77
2 1/2	1847-025	29.54
3	1847-030	32.27
4	1847-040	32.92
6	1847-060	108.58
8	1847-080	355.59



Cap
FPT

Size (in.)	Part #	Price $
1/4	1848-002	3.91
3/8	1848-003	4.20
1/2	1848-005	3.34
3/4	1848-007	5.55
1	1848-010	7.76
1 1/4	1848-012	13.84
1 1/2	1848-015	14.18
2	1848-020	20.41
2 1/2	1848-025	47.27
3	1848-030	61.96
4	1848-040	90.04



Plug
MPT

Size (in.)	Part #	Price $
1/4	1850-002	3.14
3/8	1850-003	3.37
1/2	1850-005	2.72
3/4	1850-007	3.45
1	1850-010	5.68
1 1/4	1850-012	8.60
1 1/2	1850-015	7.11
2	1850-020	9.68
2 1/2	1850-025	16.47
3	1850-030	17.62
4	1850-040	31.25
6	1850-060	47.21



Union
Socket

Size (in.)	EPDM #	Price $	FKM #	Price $
1/4	1897-002	12.33	1857-002	12.48
3/8	1897-003	13.27	1857-003	13.44
1/2	1897-005	8.28	1857-005	8.30
3/4	1897-007	8.58	1857-007	8.68
1	1897-010	10.27	1857-010	10.41
1 1/4	1897-012	20.80	1857-012	21.07
1 1/2	1897-015	21.20	1857-015	21.45
2	1897-020	35.15	1857-020	35.78
2 1/2	1897-025	62.63	1857-025	62.79
3	1897-030	73.14	1857-030	73.76
4	1897-040	100.38	1857-040	101.53



Union
FPT x FPT

Size (in.)	EPDM #	Price $	FKM #	Price $
1/4	1898-002	13.87	1858-002	14.03
3/8	1898-003	14.93	1858-003	15.11
1/2	1898-005	8.79	1858-005	8.79
3/4	1898-007	15.53	1858-007	15.72
1	1898-010	21.41	1858-010	21.68
1 1/4	1898-012	40.90	1858-012	41.21
1 1/2	1898-015	40.90	1858-015	41.21
2	1898-020	45.99	1858-020	46.93
2 1/2	N/A	N/A	1858-025	80.99
3	1898-030	131.56	1858-030	131.56
4	N/A	N/A	1858-040	165.19



Union
Socket x FPT

Size (in.)	EPDM #	Price $	FKM #	Price $
1/2	1899-005	9.22	1859-005	9.35
3/4	1899-007	16.30	1859-007	16.50
1	1899-010	22.48	1859-010	22.76
1 1/4	1899-012	43.11	1859-012	43.45
1 1/2	1899-015	43.11	1859-015	43.45
2	1899-020	47.92	1859-020	48.54
2 1/2	1899-025	74.69	1859-025	85.71
3	1899-030	92.61	1859-030	94.82
4	1899-040	115.50	N/A	N/A

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ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 100818

CPVC Fittings - Schedule 80

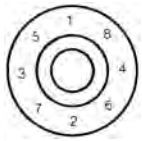


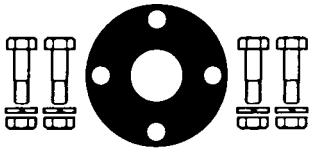
Torque Recommendation
Schedule 80 Plastic Flanges

Flange Size	Recommended Torque *
1/2 - 1 1/2”	10 - 15 ft. lbs.
2 - 4”	20 - 30 ft. lbs.
6 - 8”	33 - 50 ft. lbs.
10”	53 - 75 ft. lbs.
12”	80 - 110 ft. lbs.

* For a well lubricated bolt with flat washers under bolt head and nut.

The following tightening pattern is suggested for the flange bolts.





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1 Piece Flange Socket

Size (in.)	Part #	Price $
1/2	1851-005	8.15
3/4	1851-007	8.34
1	1851-010	9.11
1 1/4	1851-012	11.10
1 1/2	1851-015	12.34
2	1851-020	18.65
2 1/2	1851-025	32.34
3	1851-030	40.59
4	1851-040	43.76
6	1851-060	74.72
8	1851-080	170.30



1 Piece Flange FPT

Size (in.)	Part #	Price $
1/2	1852-005	14.24
3/4	1852-007	17.27
1	1852-010	18.84
1 1/4	1852-012	27.72
1 1/2	1852-015	27.72
2	1852-020	28.18
2 1/2	1852-025	45.99
3	1852-030	47.27
4	1852-040	70.88



1 Piece Flange Blind

Size (in.)	Part #	Price $
1/2	1853-005	12.24
3/4	1853-007	13.28
1	1853-010	16.55
1 1/4	1853-012	18.74
1 1/2	1853-015	26.16
2	1853-020	34.19
2 1/2	1853-025	41.83
3	1853-030	62.58
4	1853-040	88.17
6	1853-060	147.16
8	1853-080	217.62



Flange Vanstone Socket

Size (in.)	Part #	Price $
1/2	1854-005	9.08
3/4	1854-007	9.27
1	1854-010	10.14
1 1/4	1854-012	12.37
1 1/2	1854-015	13.75
2	1854-020	16.62
2 1/2	1854-025	34.45
3	1854-030	32.60
4	1854-040	44.10
5	1854-050	80.83
6	1854-060	75.04
8	1854-080	225.68
10	1854-100	920.06
12	1854-120	1380.58

Note: Vanstone = Loose ring



Flange Vanstone FPT

Size (in.)	Part #	Price $
1/2	855-005C	12.35
3/4	855-007C	14.97
1	855-010C	16.34
1 1/4	855-012C	22.50
1 1/2	855-015C	24.02
2	855-020C	24.47
2 1/2	855-025C	39.39
3	855-030C	39.39
4	855-040C	61.25

Note: Vanstone = Loose ring



Flange Vanstone Socket

Size (in.)	Part #	Price $
1/2	856-005C	10.21
3/4	856-007C	10.97
1	856-010C	12.45
1 1/4	856-012C	15.41
1 1/2	856-015C	17.04
2	856-020C	23.85
2 1/2	856-025C	37.35
3	856-030C	40.90
4	856-040C	42.09
6	856-060C	91.90
8	856-080C	187.32

Note: Vanstone = Loose ring



Reducer Tee Socket

Size (in.)	Part #	Price $
3/4 x 3/4 x 1/2	1801-101	9.58
1 x 1 x 1/2	1801-130	11.04
1 x 1 x 3/4	1801-131	11.04
1 1/4 x 1 x 3/4	1801-157	22.60
1 1/4 x 1 1/4 x 1	1801-168	23.27
1 1/2 x 1 1/4 x 1	1801-202	23.27
1 1/2 x 1 1/2 x 1/2	1801-209	24.30
1 1/2 x 1 1/2 x 3/4	1801-210	22.57
1 1/2 x 1 1/2 x 1	1801-211	22.57
1 1/2 x 1 1/2 x 1 1/4	1801-212	24.30
2 x 2 x 1/2	1801-247	26.88
2 x 2 x 3/4	1801-248	26.88
2 x 2 x 1	1801-249	26.88
2 x 2 x 1 1/2	1801-251	26.88
2 1/2 x 2 1/2 x 2	1801-292	34.41
3 x 3 x 2	1801-338	54.94
4 x 4 x 2	1801-420	69.29
4 x 4 x 3	1801-422	69.29
6 x 6 x 4	1801-532	196.30



Cross Socket

Size (in.)	Part #	Price $
1/2	820-005C	19.71
3/4	820-007C	20.75
1	820-010C	23.00
1 1/4	820-012C	24.60
1 1/2	820-015C	26.74
2	820-020C	34.68
2 1/2	820-025C	46.24
3	820-030C	58.89
4	820-040C	105.20

CPVC Fittings - Schedule 80



Reducing Bushing
Spig x Socket



Reducing Bushing
Spig x FPT



Reducing Bushing
MPT x FPT



Reducing Coupling
Socket x Socket



Reducing Coupling
FPT x FPT

Size (in.)	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $
3/8 x 1/4	1837-052	4.36	1838-052	4.68	1839-052	6.29	N/A	N/A	N/A	N/A
1/2 x 1/8	N/A	N/A	1838-071	4.68	N/A	N/A	N/A	N/A	N/A	N/A
1/2 x 1/4	1837-072	4.05	1838-072	4.34	1839-072	5.84	N/A	N/A	N/A	N/A
1/2 x 3/8	1837-073	4.36	1838-073	4.68	1839-073	6.29	N/A	N/A	N/A	N/A
3/4 x 1/4	N/A	N/A	1838-098	5.22	1839-098	6.93	N/A	N/A	N/A	N/A
3/4 x 3/8	N/A	N/A	N/A	N/A	1839-099	6.93	N/A	N/A	N/A	N/A
3/4 x 1/2	1837-101	2.06	1838-101	2.25	1839-101	2.77	1829-101	5.06	1830-101	10.44
1 x 1/4	N/A	N/A	N/A	N/A	1839-128	7.49	N/A	N/A	N/A	N/A
1 x 3/8	N/A	N/A	1838-129	6.94	1839-129	7.49	N/A	N/A	N/A	N/A
1 x 1/2	1837-130	3.21	1838-130	2.86	1839-130	4.63	1829-130	7.23	1830-130	12.60
1 x 3/4	1837-131	3.21	1838-131	2.86	1839-131	4.63	1829-131	7.23	1830-131	12.60
1 1/4 x 1/2	1837-166	8.52	1838-166	9.22	1839-166	9.29	1829-166	17.81	1830-166	25.23
1 1/4 x 3/4	1837-167	8.52	1838-167	9.22	1839-167	9.29	1829-167	16.57	1830-167	19.90
1 1/4 x 1	1837-168	8.52	1838-168	9.22	1839-168	9.29	1829-168	16.57	1830-168	19.90
1 1/2 x 1/2	1837-209	9.62	1838-209	11.35	1839-209	11.15	1829-209	17.66	1830-209	35.15
1 1/2 x 3/4	1837-210	9.62	1838-210	11.35	1839-210	11.15	1829-210	16.41	1830-210	24.51
1 1/2 x 1	1837-211	9.62	1838-211	11.35	1839-211	11.15	1829-211	16.41	1830-211	24.51
1 1/2 x 1 1/4	1837-212	9.62	1838-212	11.35	1839-212	11.15	1829-212	16.41	1830-212	24.51
2 x 1/2	1837-247	12.43	1838-247	15.61	1839-247	11.47	1829-247	23.35	1830-247	58.42
2 x 3/4	1837-248	12.43	1838-248	15.61	1839-248	11.47	N/A	N/A	1830-248	58.42
2 x 1	1837-249	12.43	1838-249	15.61	1839-249	11.47	1829-249	21.69	1830-249	48.54
2 x 1 1/4	1837-250	12.43	1838-250	15.61	1839-250	11.47	1829-250	36.74	1830-250	58.42
2 x 1 1/2	1837-251	12.43	1838-251	15.61	1839-251	11.47	1829-251	21.69	1830-251	48.54
2 1/2 x 1	N/A	N/A	1838-289	26.89	N/A	N/A	N/A	N/A	N/A	N/A
2 1/2 x 1 1/4	N/A	N/A	1838-290	26.89	N/A	N/A	N/A	N/A	N/A	N/A
2 1/2 x 1 1/2	N/A	N/A	1838-291	26.70	N/A	N/A	N/A	N/A	N/A	N/A
2 1/2 x 2	1837-292	15.13	1838-292	24.80	1839-292	29.69	1829-292	41.26	1830-292	92.27
3 x 1	1837-335	48.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 x 1 1/4	N/A	N/A	1838-336	62.24	N/A	N/A	N/A	N/A	N/A	N/A
3 x 1 1/2	1837-337	23.04	1838-337	62.24	1839-337	39.60	1829-337	67.79	N/A	N/A
3 x 2	1837-338	23.04	1838-338	55.22	1839-338	39.60	1829-338	49.84	N/A	N/A
3 x 2 1/2	1837-339	23.04	1838-339	55.22	1839-339	39.60	N/A	N/A	N/A	N/A
4 x 2	1837-420	25.47	1838-420	112.71	1839-420	68.67	1829-420	60.03	N/A	N/A
4 x 2 1/2	N/A	N/A	1838-421	121.30	N/A	N/A	N/A	N/A	N/A	N/A
4 x 3	1837-422	25.47	1838-422	112.71	1839-422	68.67	1829-422	60.03	N/A	N/A
6 x 2	1837-528	58.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6 x 3	1837-530	58.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6 x 4	1837-532	54.60	1838-532	244.55	N/A	N/A	1829-532	134.94	N/A	N/A
8 x 6	1837-585	179.66	N/A	N/A	N/A	N/A	1829-585	234.26	N/A	N/A
10 x 6	1837-626	535.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 x 8	1837-628	535.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 x 8	1837-668	674.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 x 10	1837-670	483.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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CPVC Nipples - Schedule 80



NIPPLES MPT x MPT (THREADED BOTH ENDS)

Part #	Dia. x Length	Price
1880-005	1/4" x Close	2.39
1880-015	1/4" x 1 1/2"	2.75
1880-020	1/4" x 2"	2.79
1880-025	1/4" X 2 1/2"	3.24
1880-030	1/4" X 3"	3.37
1880-035	1/4" X 3 1/2"	3.66
1880-040	1/4" X 4"	3.81
1880-045	1/4" X 4 1/2"	4.11
1880-050	1/4" X 5"	4.23
1880-055	1/4" X 5 1/2"	4.46
1880-060	1/4" X 6"	5.08

Part #	Dia. x Length	Price
1881-005	3/8" x Close	2.74
1881-015	3/8" x 1 1/2"	2.86
1881-020	3/8" x 2"	3.24
1881-025	3/8" X 2 1/2"	3.65
1881-030	3/8" X 3"	3.83
1881-035	3/8" X 3 1/2"	4.28
1881-040	3/8" X 4"	4.63
1881-045	3/8" X 4 1/2"	5.07
1881-050	3/8" X 5"	5.47
1881-055	3/8" X 5 1/2"	6.00
1881-060	3/8" X 6"	6.64

Part #	Dia. x Length	Price
1882-005	1/2" x Close	2.58
1882-015	1/2" x 1 1/2"	2.79
1882-020	1/2" x 2"	3.07
1882-025	1/2" X 2 1/2"	3.72
1882-030	1/2" X 3"	3.51
1882-035	1/2" X 3 1/2"	4.11
1882-040	1/2" X 4"	4.11
1882-045	1/2" X 4 1/2"	4.61
1882-050	1/2" X 5"	4.87
1882-055	1/2" X 5 1/2"	5.20
1882-060	1/2" X 6"	5.20

Part #	Dia. x Length	Price
1883-005	3/4" x Close	3.17
1883-015	3/4" x 1 1/2"	3.40
1883-020	3/4" x 2"	3.66
1883-025	3/4" X 2 1/2"	4.18
1883-030	3/4" X 3"	4.18
1883-035	3/4" X 3 1/2"	4.84
1883-040	3/4" X 4"	4.96
1883-045	3/4" X 4 1/2"	5.36
1883-050	3/4" X 5"	5.49
1883-055	3/4" X 5 1/2"	5.49
1883-060	3/4" X 6"	5.98

Part #	Dia. x Length	Price
1884-005	1" x Close	3.83
-	-	-
1884-020	1" x 2"	4.18
1884-025	1" X 2 1/2"	5.20
1884-030	1" X 3"	5.47
1884-035	1" X 3 1/2"	5.66
1884-040	1" X 4"	5.98
1884-045	1" X 4 1/2"	6.59
1884-050	1" X 5"	6.76
1884-055	1" X 5 1/2"	7.31
1884-060	1" X 6"	7.84

Part #	Dia. x Length	Price
1885-005	1 1/4" x Close	4.84
-	-	-
1885-020	1 1/4" x 2"	5.36
1885-025	1 1/4" X 2 1/2"	6.02
1885-030	1 1/4" X 3"	6.66
1885-035	1 1/4" X 3 1/2"	7.80
1885-040	1 1/4" X 4"	8.41
1885-045	1 1/4" X 4 1/2"	9.29
1885-050	1 1/4" X 5"	9.88
1885-055	1 1/4" X 5 1/2"	10.61
1885-060	1 1/4" X 6"	11.36

Part #	Dia. x Length	Price
1886-005	1 1/2" x Close	5.36
-	-	-
1886-020	1 1/2" x 2"	5.98
1886-025	1 1/2" X 2 1/2"	6.71
1886-030	1 1/2" X 3"	7.45
1886-035	1 1/2" X 3 1/2"	8.58
1886-040	1 1/2" X 4"	9.01
1886-045	1 1/2" X 4 1/2"	10.52
1886-050	1 1/2" X 5"	11.99
1886-055	1 1/2" X 5 1/2"	14.42
1886-060	1 1/2" X 6"	16.82

Part #	Dia. x Length	Price
1887-005	2" x Close	8.30
-	-	-
-	-	-
1887-025	2" X 2 1/2"	9.88
1887-030	2" X 3"	11.71
1887-035	2" X 3 1/2"	11.71
1887-040	2" X 4"	13.55
1887-045	2" X 4 1/2"	14.10
1887-050	2" X 5"	15.36
1887-055	2" X 5 1/2"	17.44
1887-060	2" X 6"	21.60

Part #	Dia. x Length	Price
1888-005	2 1/2" x Close	15.06
-	-	-
-	-	-
-	-	
1888-030	2 1/2" X 3"	16.52
1888-035	2 1/2" X 3 1/2"	20.16
1888-040	2 1/2" X 4"	20.16
1888-045	2 1/2" X 4 1/2"	24.09
1888-050	2 1/2" X 5"	24.09
1888-055	2 1/2" X 5 1/2"	28.25
1888-060	2 1/2" X 6"	28.25

Part #	Dia. x Length	Price
1889-005	3" x Close	19.51
-	-	-
-	-	-
-	-	
1889-030	3" X 3"	19.51
1889-035	3" X 3 1/2"	25.51
1889-040	3" X 4"	25.51
1889-045	3" X 4 1/2"	29.70
1889-050	3" X 5"	33.92
1889-055	3" X 5 1/2"	33.92
1889-060	3" X 6"	39.92

Part #	Dia. x Length	Price
1890-005	4" x Close	30.07
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1890-040	4" X 4"	36.10
1890-045	4" X 4 1/2"	42.04
1890-050	4" X 5"	42.04
1890-055	4" X 5 1/2"	48.04
1890-060	4" X 6"	57.08

For longer length nipples, size 7" through 12", please contact our Sales office.

All prices subject to change without notice.

Clear PVC Pipe & Fittings

CLEAR Schedule 40 / 80 Rigid PVC Pipe & Schedule 40 Fittings



Pipe and fittings have a tint.

Features

- Manufactured to Sch. 40 IPS dimensions
- Full line of 1/4" through 8" clear fittings
- Simple solvent-welded joining techniques
- Fully compatible with standard PVC
- Corrosions resistant • Non-conductive
- Resists bacterial and biological activity
- Wide range of chemical resistance
- Light weight, easy to handle and install
- Neatly packed — clean and scratch free
- Standard plain-end 10-foot lengths
- Working pressure, water, non-shock at 73° F with solvent welded connections

Applications

- Routinely used as dual-containment piping for high purity piping runs, where leak detection is critical.
- Semiconductor • Clean rooms
- Chemical Processing • Cosmetics
- Medical / Hospital • Electroplating
- Pharmaceuticals • Lab Applications
- Fish Hatcheries
- Food & Dairy Processing
- Environmental Applications
- Beverage Processing
- Visual Test Equipment

Clear PVC Pipe / Schedule 40

Pipe Size (in.)	Max. W.P. (PSI)	Average O.D. (in.)	Average I.D. (in.)	Maximum W.P. PSI	Part #	Price $ Per Ft.
1/4	390	.540	.354	390	1395-002	1.07
3/8	310	.675	.483	310	1395-003	1.45
1/2	300	.840	.608	300	1395-005	2.16
3/4	240	1.050	.810	240	1395-007	2.92
1	220	1.315	1.033	220	1395-010	4.30
1 1/4	180	1.660	1.364	180	1395-012	5.84
1 1/2	170	1.900	1.592	170	1395-015	6.99
2	140	2.375	2.049	140	1395-020	9.41
2 1/2	150	2.875	2.445	150	1395-025	14.88
3	130	3.500	3.042	130	1395-030	19.42
3 1/2	120	4.000	3.520	120	1395-035	24.67
4	110	4.500	3.998	110	1395-040	29.25
6	90	6.625	6.031	90	1395-060	53.46
8	80	8.625	7.943	80	1395-080	80.18
10	70	10.750	9.976	70	1395-100	129.05
12	70	12.750	11.890	70	1395-120	170.47



Clear 90° Ell (slip)

Size (in.)	Part #	Price $
1/4	1396-002	9.94
3/8	1396-003	9.94
1/2	1396-005	7.50
3/4	1396-007	8.21
1	1396-010	14.90
1 1/4	1396-012	26.24
1 1/2	1396-015	27.88
2	1396-020	44.18
2 1/2	1396-025	134.06
3	1396-030	160.38
4	1396-040	287.18
6	1396-060	516.94
8	1396-080	930.50
10	1396-100	611.00
12	1396-120	779.00



Clear 45° Ell (slip)

Size (in.)	Part #	Price $
1/4	1392-002	15.96
3/8	1392-003	15.96
1/2	1392-005	12.11
3/4	1392-007	18.71
1	1392-010	22.46
1 1/4	1392-012	31.78
1 1/2	1392-015	39.63
2	1392-020	51.65
2 1/2	1392-025	134.24
3	1392-030	208.39
4	1392-040	374.31
6	1392-060	673.75
8	1392-080	1212.75
10	1392-100	795.00
12	1392-120	895.00

Clear PVC Pipe / Schedule 80

Pipe Size (in.)	Max. W.P. (PSI)	Average O.D. (in.)	Average I.D. (in.)	Maximum W.P. PSI	Part #	Price $ Per Ft.
1/4	570	.540	.288	570	1391-002	1.36
3/8	460	.675	.407	460	1391-003	1.88
1/2	420	.840	.528	420	1391-005	2.76
3/4	340	1.050	.724	340	1391-007	3.72
1	320	1.315	.935	320	1391-010	5.48
1 1/4	260	1.660	1.256	260	1391-012	7.55
1 1/2	240	1.900	1.476	240	1391-015	9.18
2	200	2.375	1.913	200	1391-020	12.70
2 1/2	210	2.875	2.289	210	1391-025	19.36
3	190	3.500	2.864	190	1391-030	25.95
4	160	4.500	3.786	160	1391-040	37.93
6	140	6.625	5.709	140	1391-060	72.46



Clear Street 90° Ell Spig x S

Size (in.)	Part #	Price $
1/2	1389-005	7.50
3/4	1389-007	8.21
1	1389-010	14.90
1 1/4	1389-012	26.24
1 1/2	1389-015	27.88
2	1389-020	44.18
2 1/2	1389-025	134.06



Clear Street 45° Ell Spig x S

Size (in.)	Part #	Price $
1/2	1388-005	12.11
3/4	1388-007	18.71
1	1388-010	22.46
1 1/4	1388-012	31.78
1 1/2	1388-015	39.63
2	1388-020	51.65
2 1/2	1388-025	134.24
3	1388-030	208.39
4	1388-040	374.31

NOTE: Working pressure, water, non-shock at 73° F with solvent welded connections.
All Pipe Sold in Standard Length, 10 feet ± 1".
Pipe can be cut in half for shipping at no extra charge.
There is a cutting charge for custom lengths.

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Clear PVC Pipe & Fittings

Pipe and fittings have a tint.

CLEAR Schedule 40 Fittings & Schedule 80 Nipples



Clear Coupling (slip)

Size (in.)	Part #	Price $
1/4	1398-002	6.67
3/8	1398-003	6.67
1/2	1398-005	4.96
3/4	1398-007	6.69
1	1398-010	11.63
1 1/4	1398-012	15.81
1 1/2	1398-015	17.03
2	1398-020	26.54
2 1/2	1398-025	58.14
3	1398-030	91.23
4	1398-040	131.70
6	1398-060	237.07
8	1398-080	426.70
10	1398-100	274.00
12	1398-120	348.00



Clear Tee (slip)

Size (in.)	Part #	Price $
1/4	1397-002	12.22
3/8	1397-003	7.86
1/2	1397-005	9.22
3/4	1397-007	10.51
1	1397-010	19.66
1 1/4	1397-012	30.90
1 1/2	1397-015	37.46
2	1397-020	54.45
2 1/2	1397-025	179.45
3	1397-030	235.37
4	1397-040	426.09
6	1397-060	767.01
8	1397-080	1380.57
10*	1397-100	905.00
12*	1397-120	1032.00

*Pressure rating 50 PSI



Clear Wye (slip)

Size (in.)	Part #	Price $
1 1/2	1390-015	49.40
2	1390-020	72.73
3	1390-030	302.93
4	1390-040	551.55
6	1390-060	942.91
6 x 4	1390-532	942.91



Clear Male Adapter MPT x S

Size (in.)	Part #	Price $
3/8	1400-003	8.96
1/2	1400-005	6.69
3/4	1400-007	7.50
1	1400-010	13.17
1 1/4	1400-012	15.91
1 1/2	1400-015	21.60
2	1400-020	28.17
2 1/2	1400-025	83.56
3	1400-030	122.07
4	1400-040	155.67



Clear Female Adapter S x FPT

Size (in.)	Part #	Price $
1/4	1399-002	14.01
3/8	1399-003	14.01
1/2	1399-005	8.29
3/4	1399-007	10.39
1	1399-010	11.99
1 1/4	1399-012	18.43
1 1/2	1399-015	21.63
2	1399-020	29.12
2 1/2	1399-025	60.52
3	1399-030	98.81
4	1399-040	163.42

NOTE: Clear Schedule 40 Male and Female Adapters, Schedule 80 Unions and Nipples - PSI ratings are 50% Less than pipe ratings. Pipe ratings are shown on previous page.



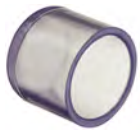
Clear Union / EPDM Socket x Socket

Size (in.)	Part #	Price $
1/2	1382-005	6.00
3/4	1382-007	7.00
1	1382-010	12.50
1 1/4	1382-012	14.00
1 1/2	1382-015	17.00
2	1382-020	28.60



Clear Reducer Bushing Spig x S

Size (in.)	Part #	Price $
3/4 x 1/2	1394-101	7.74
1 x 3/4	1394-131	14.21
1 1/4 x 1	1394-168	18.71
1 1/2 x 1	1394-211	19.75
1 1/2 x 1 1/4	1394-212	19.75
2 x 1 1/2	1394-251	32.71
2 1/2 x 2	1394-292	52.62
3 x 2	1394-338	78.08
3 x 2 1/2	1394-339	78.08
4 x 2	1394-420	165.72
4 x 3	1394-422	174.43
6 x 4	1394-532	351.05
8 x 6	1394-585	565.21



Clear Cap (slip)

Size (in.)	Part #	Price $
1/4	1393-002	8.96
3/8	1393-003	8.96
1/2	1393-005	6.69
3/4	1393-007	7.74
1	1393-010	12.24
1 1/4	1393-012	17.03
1 1/2	1393-015	18.71
2	1393-020	22.55
2 1/2	1393-025	72.13
3	1393-030	71.03
4	1393-040	161.52
6	1393-060	290.74
8	1393-080	375.25
10	1393-100	344.00
12	1393-120	387.00



Clear P-Trap (slip)

Size (in.)	Part #	Price $
1/2	1387-005	27.31
3/4	1387-007	28.91
1	1387-010	43.77
1 1/4	1387-012	84.94
1 1/2	1387-015	88.59
2	1387-020	124.88
2 1/2	1387-025	325.01



Clear 90° and 45° Sweep Elbows

Available Sizes: 1/2" - 4"
Price: POA



Clear Schedule 80 Nipples

Other diameters and lengths available. POA - Price On Application



Dia. x Length (in.)	Part #	Price $
1/2 x Close	140-005	1.80
1/2 x Short	140-015	2.39
1/2 x 2	140-020	3.19
1/2 x 3	140-030	4.78
1/2 x 4	140-040	6.38
1/2 x 5	140-050	7.97
1/2 x 6	140-060	9.56
1/2 x 8	140-080	12.75
1/2 x 10	140-100	15.93
1/2 x 12	140-120	19.13

Dia. x Length (in.)	Part #	Price $
3/4 x Close	141-005	2.96
3/4 x Short	141-020	4.30
3/4 x 3	141-030	6.47
3/4 x 4	141-040	8.62
3/4 x 5	141-050	10.77
3/4 x 6	141-060	12.92
3/4 x 8	141-080	17.22
3/4 x 10	141-100	21.54
3/4 x 12	141-120	25.84

Dia. x Length (in.)	Part #	Price $
1 x Close	142-005	4.76
1 x Short	142-020	6.34
1 x 3	142-030	9.51
1 x 4	142-040	12.69
1 x 5	142-050	15.85
1 x 6	142-060	19.03
1 x 8	142-080	25.37
1 x 10	142-100	31.71
1 x 12	142-120	38.05

Dia. x Length (in.)	Part #	Price $
1 1/2 x Close	143-005	9.29
1 1/2 x Short	143-025	13.27
1 1/2 x 3	143-030	15.92
1 1/2 x 4	143-040	21.24
1 1/2 x 5	143-050	26.54
1 1/2 x 6	143-060	31.86
1 1/2 x 8	143-080	42.48
1 1/2 x 10	143-100	53.09
1 1/2 x 12	143-120	63.71

Dia. x Length (in.)	Part #	Price $
2 x Close	144-005	14.70
2 x Short	144-025	18.37
2 x 3	144-030	22.05
2 x 4	144-040	29.40
2 x 5	144-050	36.75
2 x 6	144-060	44.10
2 x 8	144-080	58.81
2 x 10	144-100	73.49
2 x 12	144-120	88.20

NOTE: Clear Schedule 80 Nipples PSI ratings are 50% Less than pipe ratings. Pipe ratings are shown on previous page.

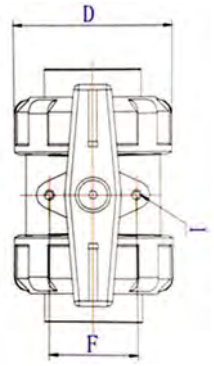
ALSCO™ Clear PVC Ball & Check Valves



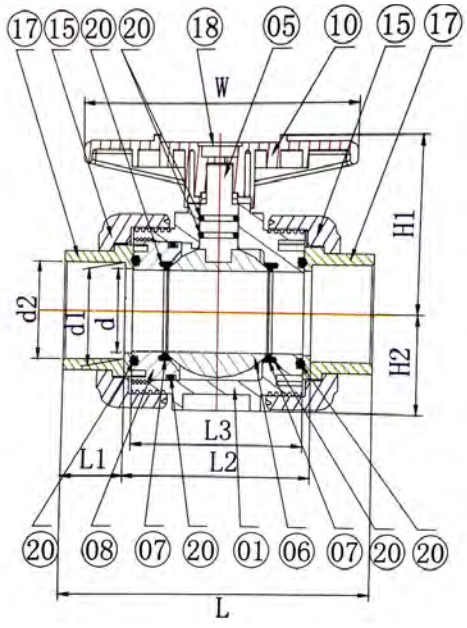
Features
- Clear PVC
- Sizes 1/2" to 2"
- Socket End Connectors
- 150 PSI rated @ 70°F
- Fully Serviceable
- PTFE seats
- EPDM O-rings
- 100% hydro tested
- Extremely smooth handle operation
- For water service
- Clear PVC has a slight blue tint

PVC / EPDM / Socket		
Size	**Part #**	**Price**
1/2"	1383-005	$ 19.80
3/4"	1383-007	$ 26.40
1"	1383-010	$ 39.60
1 1/4"	1383-012	$ 55.00
1 1/2"	1383-015	$ 66.22
2"	1383-020	$ 77.88

Unit: IN		d	d1	d2	D	L	L1	L2	L3	W	HI	H2	F	M	I	Torque
1/2		0.591	0.848	0.836	2.126	4.126	0.878	2.362	2.047	3.307	2.067	1.083	1.220		M6	2
3/4		0.787	1.058	1.046	2.480	4.449	1.004	2.441	2.126	3.543	2.323	1.260	1.299		M6	2.5
1		0.984	1.325	1.310	2.894	5.008	1.126	2.756	2.441	4.173	2.657	1.467	1.575		M6	4
1-1/4		1.260	1.670	1.655	3.327	5.591	1.260	3.071	2.756	4.567	3.051	1.683	2.047		M8	5
1-1/2		1.575	1.912	1.894	3.858	6.201	1.378	3.445	3.130	5.039	3.543	1.969	2.047		M8	7.5
2		1.969	2.387	2.369	4.646	6.732	1.496	3.740	3.346	5.512	4.173	2.362	2.756		M8	8.5



Ref	Material	Qty
20	EPDM/Fpm	7
18	ABS	1
17	PVC	2
15	PVC	2
10	ABS	1
08	PVC	1
07	TPV/PTFE	2
06	PVC	1
05	PVC	1
01	PVC	1





Unit: IN		d	d1	d2	D	L	L1
1/2		0.591	0.848	0.836	2.126	3.780	0.878
3/4		0.787	1.058	1.046	2.480	4.409	1.004
1		0.984	1.325	1.310	2.894	5.079	1.126
1-1/4		1.260	1.670	1.655	3.327	5.748	1.260
1-1/2		1.575	1.912	1.894	3.858	6.240	1.378
2		1.969	2.387	2.369	4.685	6.575	1.496

Features
- Clear PVC
- Sizes 1/2" to 2"
- Socket End Connectors
- 150 PSI rated @ 70°F
- Fully Serviceable
- EPDM seats
- EPDM O-rings
- 100% hydro tested
- For water service
- Clear PVC has a slight blue tint

PVC / EPDM / Socket		
Size	**Part #**	**Price**
1/2"	1384-005	$ 22.00
3/4"	1384-007	$ 26.40
1"	1384-010	$ 35.20
1 1/4"	1384-012	$ 47.30
1 1/2"	1384-015	$ 55.00
2"	1384-020	$ 65.67

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Clear UV Resistant PVC Pipe


Pipe has a slight blue tint.

Features

- Manufactured to both ThinWall™ and standard Schedule 40 dimensions
- Joined utilizing simple solvent-welded joining techniques
- Manufactured to IPS dimensions---Fully compatible with standard PVC pipe, fittings, and valves
- Corrosions resistant • Non-conductive
- Light weight, easy to handle and install
- Neatly packed — clean and scratch free
- Standard plain-end 10-foot lengths
- Lower overall installed cost than glass, acrylic, or other transparent alternatives

EnviroKingUV™ has been developed as a clear PVC piping that is suitable for exposure to sunlight. Unique UV blocking technology reduces harmful ultraviolet light wavelengths from penetrating the plastic while allowing beneficial wavelengths through. This material, which shows a slight blue tint, has been specifically formulated to block damaging UV light.

These unique attributes provide a durable containment vessel that has been optimized to improve light transmission through the pipe without jeopardizing product integrity. This enables Harvel® EnviroKingUV™ to provide a cost-effective solution for photobioreactor tubing and other outdoor applications exposed to sunlight where transparency is required.

EnviroKingUV™ is compatible with conventional IPS size PVC and can be incorporated into existing PVC systems via the solvent cement joining process. It exhibits similar chemical resistance properties to conventional clear PVC, and in general is resistant to most acids, bases, salts, and oxidants. Chemical compatibility should be confirmed prior to use in chemical service environments.

PIPE • EnviroKing™ UV SCHEDULE 40

Pipe Size	Part # Sch 40	Price per ft.	Avg. I.D.	Avg. O.D.	Max. WP (PSI)
1/2	1386-005	1.94	.602	.840	300
3/4	1386-007	2.60	.804	1.050	240
1	1386-010	3.85	1.029	1.315	220
1 1/4	1386-012	5.22	1.360	1.660	180
1 1/2	1386-015	6.24	1.590	1.900	170
2	1386-020	8.40	2.047	2.375	140
2 1/2	1386-025	13.27	2.445	2.875	150
3	1386-030	17.34	3.042	3.500	130
3 1/2	1386-035	22.03	3.521	4.000	120
4	1386-040	26.10	3.998	4.500	110
6	1386-060	47.73	6.031	6.625	90

PIPE • EnviroKing™ UV ThinWall™

Pipe Size	Part # Sch 40	Price per ft.	Avg. I.D.	Avg. O.D.	Max. WP (PSI)
2	1385-020	5.31	2.173	2.375	80
3	1385-030	11.26	3.210	3.500	80
4	1385-040	19.44	4.134	4.500	80
6	1385-060	30.70	6.251	6.625	70
8	1385-080	40.23	8.251	8.625	53
10	1385-100	57.10	10.376	10.750	43
12	1385-120	67.93	12.376	12.750	36

NOTE: UV Resistant Clear PVC piping can be joined with standard PVC pipe, fittings, or valves. PVC Schedule 40 Gray fittings are listed on the following pages.



PTFE Tape - Quantity Discounts Available.
Thread Seal Tape (White Standard) with PTFE®.
Complies with MIL-T-27730A Specifications

Size (in.)	Mfg Part #	Price $
1/2 x 260	S260	0.95
1/2 x 520	S520	1.42
3/4 x 260	SW260	1.38
3/4 x 520	SW520	1.68
1 x 520	SX520	1.72



PTFE Tape - 1429" Roll

Size (in.)	Mfg Part #	Price $
1/2 x 1429	70885	5.68
3/4 x 1429	70886	7.73

Blue Monster® PTFE Thread Seal Tape - Professional Grade

Description:
Rugged, general purpose tape in a monstrous 1429" roll! Ideal for hundreds of applications. Blue Monster is a higher-quality PTFE sealing tape that is easier to apply. Blue Monster has not been stretched during the manufacturing process, so it is thicker and creates a more effective seal with less tape, and no need for pipe dope. Use Blue Monster on threads made from galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS, fiberglass and more.

Specifications:
- Seals fittings at pressures up to 10,000 PSI.
- Temperature range -450°F to +500°F (-268°C to +260°C).
- Seals threads effectively in more applications.
- Acts as a thread lubricant and anti-seize.
- Will not harden or crack.

PVC Fittings - Schedule 40 Gray



90° Elbow Socket

Size (in.)	Part #	Price $
3/8	406-003G	3.74
1/2	406-005G	0.75
3/4	406-007G	0.83
1	406-010G	1.50
1 1/4	406-012G	2.65
1 1/2	406-015G	2.80
2	406-020G	4.52
2 1/2	406-025G	13.57
3	406-030G	16.26
4	406-040G	29.10
5	406-050G	75.21
6	406-060G	92.55
8	406-080G	238.36



90° Elbow Socket x FPT

Size (in.)	Part #	Price $
1/2	407-005G	0.95
3/4	407-007G	1.07
1	407-010G	1.97
1 1/4	407-012G	3.34
1 1/2	407-015G	3.71
2	407-020G	9.56



90° Elbow FPT x FPT

Size (in.)	Part #	Price $
1/2	408-005G	1.82
3/4	408-007G	2.69
1	408-010G	5.69
1 1/4	408-012G	6.09
1 1/2	408-015G	7.71
2	408-020G	11.70



45° Elbow Socket

Size (in.)	Part #	Price $
1/2	417-005G	1.24
3/4	417-007G	1.90
1	417-010G	2.26
1 1/4	417-012G	3.24
1 1/2	417-015G	4.01
2	417-020G	5.24
2 1/2	417-025G	13.58
3	417-030G	21.11
4	417-040G	37.94
5	417-050G	75.21
6	417-060G	93.66
8	417-080G	225.26

STANDARDS AND SPECIFICATIONS
NSF STANDARD 14 and 61
ASTM D 1784 - MATERIAL
Type I, Grade 1 (cell class 12454)
ASTM D 2466



90° Street Elbow Spig x Slip

Size (in.)	Part #	Price $
1/2	409-005G	2.09
3/4	409-007G	2.58
1	409-010G	4.48
1 1/4	409-012G	5.33
1 1/2	409-015G	5.88



90° Street Elbow MPT x Slip

Size (in.)	Part #	Price $
1/2	410-005G	1.61
3/4	410-007G	1.90



90° Street Elbow MPT x FPT

Size (in.)	Part #	Price $
1/2	412-005G	2.21
3/4	412-007G	2.69
1	412-010G	4.59
1 1/2	412-015G	6.19



Tee Socket

Size (in.)	Part #	Price $
1/2	401-005G	0.95
3/4	401-007G	1.07
1	401-010G	1.97
1 1/4	401-012G	3.12
1 1/2	401-015G	3.81
2	401-020G	5.50
2 1/2	401-025G	18.20
3	401-030G	23.85
4	401-040G	43.17
5	401-050G	104.35
6	401-060G	145.40
8	401-080G	337.25

Note: Sizes 14" - 24" available.



Tee FPT x FPT x FPT

Size (in.)	Part #	Price $
1/2	405-005G	3.39
3/4	405-007G	5.33
1	405-010G	7.39
1 1/4	405-012G	10.24
1 1/2	405-015G	10.53
2	405-020G	13.95



Tee Soc x Soc x FPT

Size (in.)	Part #	Price $
1/2	402-005G	1.24
3/4	402-007G	1.90
1	402-010G	3.55
1 1/4	402-012G	5.63



Reducer Tee Socket

Size (in.)	Part #	Price $
3/4 x 3/4 x 1/2	401-101G	1.24
1 x 1 x 1/2	401-130G	2.09
1 x 1 x 3/4	401-131G	2.26
1 1/4 X 1 1/4 X 1/2	401-166G	3.40
1 1/4 x 1 x 3/4	401-167G	3.40
1 1/4 x 1 1/4 x 1	401-168G	3.40
1 1/2 x 1 1/2 x 1/2	401-209G	6.02
1 1/2 x 1 1/2 x 3/4	401-210G	6.02
1 1/2 x 1 1/2 x 1	401-211G	6.02
1 1/2 x 1 1/2 x 1 1/4	401-212G	6.02
2 x 2 x 1/2	401-247G	5.88
2 x 2 x 3/4	401-248G	5.88
2 x 2 x 1	401-249G	5.88
2 x 2 x 1 1/4	401-250G	5.88
2 x 2 x 1 1/2	401-251G	5.88
3 x 3 x 1 1/2	401-337G	25.97
3 x 3 x 2	401-338G	25.96
4 x 4 x 2	401-420G	43.17
4 x 4 x 3	401-422G	43.17
6 x 6 x 4	401-532G	145.40
8 x 8 x 6	401-585G	337.24



Reducer Tee Soc x Soc x FPT

Size (in.)	Part #	Price $
3/4 x 3/4 x 1/2	402-101G	1.61
1 x 1 x 1/2	402-130G	2.46
1 x 1 x 3/4	402-131G	3.55
1 1/4 X 1 1/4 X 1/2	402-166G	5.88
1 1/4 x 1 x 3/4	402-167G	5.88
1 1/4 x 1 1/4 x 1	402-168G	5.88
1 1/2 x 1 1/2 x 1/2	402-209G	7.30
1 1/2 x 1 1/2 x 3/4	402-210G	7.30
1 1/2 x 1 1/2 x 1	402-211G	7.30
1 1/2 x 1 1/2 x 1 1/4	402-212G	7.30
2 x 2 x 1/2	402-247G	9.20
2 x 2 x 3/4	402-248G	9.20
2 x 2 x 1	402-249G	9.20
2 x 2 x 1 1/4	402-250G	9.20
2 x 2 x 1 1/2	402-251G	9.20

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 100118

PVC Fittings - Schedule 40 Gray



Female Adapter Socket x FPT

Size (in.)	Part #	Price $
1/2	435-005G	0.83
3/4	435-007G	1.07
1	435-010G	1.24
1 1/4	435-012G	1.90
1 1/2	435-015G	2.21
2	435-020G	2.96
2 1/2	435-025G	7.46
3	435-030G	9.99
4	435-040G	16.54
5	435-050G	42.82
6	435-060G	60.82



Female Adapter Spig x FPT

Size (in.)	Part #	Price $
1/2	478-005G	0.96
3/4	478-007G	1.11
1	478-010G	1.78
1 1/4	478-012G	2.44
1 1/2	478-015G	3.04
2	478-020G	4.48
3	478-030G	15.16
4	478-040G	25.11



Male Adapter Socket x MPT

Size (in.)	Part #	Price $
1/2	436-005G	0.65
3/4	436-007G	0.75
1	436-010G	1.32
1 1/4	436-012G	1.61
1 1/2	436-015G	2.21
2	436-020G	2.86
2 1/2	436-025G	8.45
3	436-030G	12.39
4	436-040G	15.78
5	436-050G	26.00
6	436-060G	41.19



Cap Slip

Size (in.)	Part #	Price $
3/8	447-003G	1.90
1/2	447-005G	0.71
3/4	447-007G	0.79
1	447-010G	1.24
1 1/4	447-012G	1.75
1 1/2	447-015G	1.90
2	447-020G	2.30
2 1/2	447-025G	7.33
3	447-030G	7.98
4	447-040G	18.20
5	447-050G	30.53
6	447-060G	43.58
8	447-080G	110.44



Cap FPT

Size (in.)	Part #	Price $
3/8	448-003G	2.58
1/2	448-005G	1.44
3/4	448-007G	1.62
1	448-010G	2.46
1 1/4	448-012G	2.94
1 1/2	448-015G	3.08
2	448-020G	5.43
3	448-030G	10.46
4	448-040G	18.31



Plug MPT

Size (in.)	Part #	Price $
3/8	450-003G	2.08
1/2	450-005G	2.01
3/4	450-007G	2.20
1	450-010G	3.55
1 1/4	450-012G	3.71
1 1/2	450-015G	4.00
2	450-020G	5.14
2 1/2	450-025G	7.13
3	450-030G	10.82
4	450-040G	24.42



Plug Spig

Size (in.)	Part #	Price $
1/2	449-005G	1.61
3/4	449-007G	1.90
1	449-010G	2.26
1 1/4	449-012G	3.08
1 1/2	449-015G	3.90
2	449-020G	4.84
3	449-030G	10.94



Coupling Socket

Size (in.)	Part #	Price $
1/2	429-005G	0.51
3/4	429-007G	0.71
1	429-010G	1.20
1 1/4	429-012G	1.61
1 1/2	429-015G	1.75
2	429-020G	2.72
2 1/2	429-025G	5.88
3	429-030G	9.24
4	429-040G	13.34
5	429-050G	24.44
6	429-060G	42.24
8	429-080G	78.87



Reducing Coupling Socket

Size (in.)	Part #	Price $
3/4 X 1/2	429-101G	1.24
1 X 3/4	429-131G	2.09
1 1/4 X 1	429-168G	3.55
1 1/2 X 1 1/4	429-212G	3.74
2 X 1 1/2	429-251G	5.94
3 X 2	429-338G	30.37
4 X 3	429-422G	40.03



Cross Socket

Size (in.)	Part #	Price $
1/2	420-005G	2.86
3/4	420-007G	4.72
1	420-010G	5.88
1 1/4	420-012G	7.78
1 1/2	420-015G	8.82
2	420-020G	13.03
2 1/2	420-025G	27.63
3	420-030G	33.88
4	420-040G	50.23

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

PVC Fittings - Schedule 40 Gray



Reducing Bushing
Spig x Socket



Reducing Bushing
Spig x FPT



Reducing Bushing
MPT x FPT

Size (in.)	Part #	Price $	Part #	Price $	Part #	Price $
1/2 x 1/4	N/A	N/A	438-072G	1.61	N/A	N/A
1/2 x 3/8	N/A	N/A	438-073G	1.61	N/A	N/A
3/4 x 1/4	N/A	N/A	438-098G	1.61	N/A	N/A
3/4 x 1/2	437-101G	0.78	438-101G	1.24	439-101G	2.21
1 x 1/2	437-130G	1.44	438-130G	1.97	439-130G	3.08
1 x 3/4	437-131G	1.44	438-131G	1.97	439-131G	3.08
1 1/4 x 1/2	437-166G	1.90	438-166G	3.08	439-166G	4.56
1 1/4 x 3/4	437-167G	1.90	438-167G	3.08	439-167G	4.56
1 1/4 x 1	437-168G	1.90	438-168G	3.08	439-168G	4.56
1 1/2 x 1/2	437-209G	2.01	438-209G	3.55	N/A	N/A
1 1/2 x 3/4	437-210G	2.01	438-210G	3.55	439-210G	5.50
1 1/2 x 1	437-211G	2.01	438-211G	3.55	N/A	N/A
1 1/2 x 1 1/4	437-212G	2.01	438-212G	3.55	439-212G	5.50
2 x 1/2	437-247G	3.34	438-247G	4.72	N/A	N/A
2 x 3/4	437-248G	3.34	438-248G	4.72	N/A	N/A
2 x 1	437-249G	3.34	438-249G	4.72	439-249G	5.88
2 x 1 1/4	437-250G	3.34	438-250G	4.72	439-250G	5.88
2 x 1 1/2	437-251G	3.34	438-251G	4.72	439-251G	5.88
2 1/2 x 1 1/4	437-290G	5.34	N/A	N/A	N/A	N/A
2 1/2 x 1 1/2	437-291G	5.34	438-291G	6.85	N/A	N/A
2 1/2 x 2	437-292G	5.34	438-292G	6.85	N/A	N/A
3 x 1 1/4	437-336G	7.91	N/A	N/A	N/A	N/A
3 x 1 1/2	437-337G	7.91	N/A	N/A	N/A	N/A
3 x 2	437-338G	7.91	438-338G	7.91	N/A	N/A
3 x 2 1/2	437-339G	7.91	N/A	N/A	N/A	N/A
4 x 2	437-420G	17.69	438-420G	17.64	N/A	N/A
4 x 2 1/2	437-421G	17.69	N/A	N/A	N/A	N/A
4 x 3	437-422G	17.69	438-422G	17.64	N/A	N/A
6 x 4	437-532G	43.71	438-532G	64.57	N/A	N/A
8 x 6	437-585G	152.54	N/A	N/A	N/A	N/A



Union
Socket

Size (in.)	EPDM #	Price $	Buna #	Price $
1/2	497-005G	8.06	457-005G	7.30
3/4	497-007G	9.20	457-007G	8.37
1	497-010G	9.41	457-010G	8.56
1 1/4	497-012G	30.36	457-012G	27.61
1 1/2	497-015G	31.67	457-015G	28.78
2	497-020G	42.66	457-020G	38.80



Union
FPT x FPT

Size (in.)	EPDM #	Price $	Buna #	Price $
1/2	498-005G	8.99	458-005G	8.19
3/4	498-007G	15.06	458-007G	13.70
1	498-010G	20.52	458-010G	18.67
1 1/4	498-012G	35.22	458-012G	32.09
1 1/2	498-015G	36.15	458-015G	32.79
2	498-020G	44.31	458-020G	40.28

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

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PVC Pipe - Schedule 40



Features:
- Full range of IPS sizes in 1/2" - 16" Sch 40
- 18" - 24" SDR Sch 40
- Choice of plain or belled ends
- NSF STANDARD 14 and 61
- ASTM D-1784 - MATERIAL
- ASTM D-1785 - DIMENSIONS
- Type I, Grade 1 (cell class 12454-B)

NOTE: Threaded PVC pipe has a 50% derating factor on W.P. @ 73°F.

WARNING: PVC products are not recommended for compressed air or gas systems.

PVC Pipe / Schedule 40

Nominal Pipe Size		Approx. WT. / FT. (lbs)	Max. W.P. @ 73.4°F (PSI)	Average O.D. (in.)	Average I.D. (in.)	Average Min. Wall (in.)	Plain End		Belled End	
(in.)	(mm)						Part #	Price $ / Ft.	Part #	Price $
1/2	12.7	.164	600	.840	.608	.109	N/A	N/A	800-005	0.52
3/4	19.05	.218	480	1.050	.810	.113	N/A	N/A	800-007	0.57
1	25.4	.321	450	1.315	1.033	.133	N/A	N/A	800-010	0.95
1 1/4	31.75	.434	370	1.660	1.364	.140	800-013	0.98	800-012	1.05
1 1/2	38.1	.518	330	1.900	1.592	.145	800-015	1.08	800-016	1.13
2	50.8	.695	280	2.375	2.049	.154	800-020	1.48	800-021	1.58
2 1/2	63.5	1.096	300	2.875	2.445	.203	800-026	2.71	800-025	2.90
3	76.2	1.435	260	3.500	3.042	.216	800-030	2.89	800-031	3.08
4	101.6	2.043	220	4.500	3.998	.237	800-040	4.07	800-041	4.24
5	127	2.726	190	5.563	5.017	.258	800-050	12.78	800-051	12.78
6	152.4	3.609	180	6.625	6.031	.280	800-060	9.26	800-061	9.64
8	203.2	5.453	160	8.625	7.943	.322	800-080	11.02	800-081	11.70
10	254	7.913	140	10.750	9.976	.365	800-100	18.06	800-101	19.30
12	304.8	10.532	130	12.750	11.890	.406	800-120	25.30	800-121	28.36
14	355.6	12.470	130	14.000	13.072	.438	800-140	37.86	800-141	40.34
16	406.4	16.750	130	16.000	14.940	.500	800-160	49.72	N/A	N/A
18	457.2	20.977	130	18.000	16.809	.562	800-180	71.00	N/A	N/A
20	508	23.620	120	20.000	18.743	.593	800-200	89.00	N/A	N/A
24	609.6	32.760	120	24.000	22.544	.687	800-240	125.00	N/A	N/A



Cement and Primer see pages 119-122

IPS produces a wide range of high strength WELD-ON® solvent cements for rigid and flexible PVC and CPVC pipe and fittings. Light, medium, heavy and extra heavy bodied cements are specifically formulated for PVC and CPVC pipe in virtually every schedule, up to large diameter pipe, and in a variety of job tailored cure times. These products are ideal for use with potable water pressure systems, irrigation, turf irrigation, gas, conduit, industrial piping, sewer and drain, waste and vent systems.

NOTE: PVC and CPVC piping products ARE NOT RECOMMENDED for systems which transport or store compressed air or gases. Testing PVC or CPVC piping products with compressed air or gases is also NOT RECOMMENDED.

PVC Fittings - Schedule 40



NSF

STANDARDS AND SPECIFICATIONS
NSF STANDARD 14 and 61
ASTM D 1784 - MATERIAL
Type I, Grade 1 (cell class 12454-B)
Soc. ASTM D-2467 Thr. ASTM D2464



90° Elbow Socket

Size (in.)	Part #	Price $
3/8	406-003	1.81
1/2	406-005	0.36
3/4	406-007	0.41
1	406-010	0.72
1 1/4	406-012	1.28
1 1/2	406-015	1.37
2	406-020	2.15
2 1/2	406-025	6.57
3	406-030	7.86
4	406-040	14.04
5	406-050	36.30
6	406-060	44.66
8	406-080	115.03
10	406-100	397.17
12	406-120	532.67

Note: Sizes 14" - 24" available.



90° Elbow Socket x FPT

Size (in.)	Part #	Price $
1/2	407-005	0.45
3/4	407-007	0.51
1	407-010	0.96
1 1/4	407-012	1.61
1 1/2	407-015	1.79
2	407-020	4.61
2 1/2	407-025	11.40
3	407-030	17.09
4	407-040	25.91



90° Elbow FPT x FPT

Size (in.)	Part #	Price $
1/2	408-005	0.87
3/4	408-007	1.29
1	408-010	2.75
1 1/4	408-012	2.94
1 1/2	408-015	3.72
2	408-020	5.64



Reducing 90° Elbow Socket

Size (in.)	Part #	Price $
3/4 x 1/2	406-101	0.72
1 x 1/2	406-130	1.08
1 x 3/4	406-131	1.29
1 1/4 x 1	406-168	2.05
1 1/2 x 1/2	406-209	3.25
2 x 1 1/2	406-251	5.54



90° Street Elbow Spig x Slip

Size (in.)	Part #	Price $
1/2	409-005	1.02
3/4	409-007	1.25
1	409-010	2.15
1 1/4	409-012	2.58
1 1/2	409-015	2.85
2	409-020	5.49



90° Street Elbow MPT x Slip

Size (in.)	Part #	Price $
1/2	410-005	0.79
3/4	410-007	0.93
1	410-010	1.55
1 1/4	410-012	2.15
1 1/2	410-015	2.25
2	410-020	5.55



90° Street Elbow Spig x FPT

Size (in.)	Part #	Price $
1/2	411-005	0.98
3/4	411-007	1.18
1	411-010	2.06
1 1/4	411-012	2.47
1 1/2	411-015	3.12
2	411-020	3.61



90° Street Elbow FPT x MPT

Size (in.)	Part #	Price $
1/2	412-005	1.06
3/4	412-007	1.29
1	412-010	2.21
1 1/4	412-012	2.75
1 1/2	412-015	2.99
2	412-020	5.68



45° Elbow Socket

Size (in.)	Part #	Price $
1/2	417-005	0.60
3/4	417-007	0.93
1	417-010	1.11
1 1/4	417-012	1.55
1 1/2	417-015	1.93
2	417-020	2.52
2 1/2	417-025	6.58
3	417-030	10.20
4	417-040	18.30
5	417-050	36.30
6	417-060	45.21
8	417-080	108.73
10	417-100	259.47
12	417-120	384.50

Note: Sizes 14" - 24" available.



22 1/2° Elbow Socket

Size (in.)	Part #	Price $
1/2	416-005	0.84
3/4	416-007	1.32
1	416-010	1.57
1 1/4	416-012	2.20
1 1/2	416-015	2.76
2	416-020	3.61
3	416-030	14.56
4	416-040	26.16
6	416-060	64.57
8	416-080	155.33



Tee Socket

Size (in.)	Part #	Price $
3/8	401-003	1.39
1/2	401-005	0.45
3/4	401-007	0.51
1	401-010	0.96
1 1/4	401-012	1.50
1 1/2	401-015	1.82
2	401-020	2.66
2 1/2	401-025	8.77
3	401-030	11.52
4	401-040	20.85
5	401-050	50.36
6	401-060	70.19
8	401-080	162.78
10	401-100	494.43
12	401-120	730.52

Note: Sizes 14" - 24" available.



Tee FPT x FPT x FPT

Size (in.)	Part #	Price $
1/2	405-005	1.64
3/4	405-007	2.58
1	405-010	3.58
1 1/4	405-012	4.94
1 1/2	405-015	5.10
2	405-020	6.75



Tee Soc x Soc x FPT

Size (in.)	Part #	Price $
3/8	402-003	1.41
1/2	402-005	0.60
3/4	402-007	0.93
1	402-010	1.70
1 1/4	402-012	2.72
1 1/2	402-015	3.53
2	402-020	4.48
2 1/2	402-025	13.62
3	402-030	17.35
4	402-040	26.52

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770-941-3030 · 1-800-849-3030 · www.alscoplastics.com · 100318

PVC Fittings - Schedule 40



Coupling Socket

Size (in.)	Part #	Price $
3/8	429-003	0.65
1/2	429-005	0.23
3/4	429-007	0.32
1	429-010	0.57
1 1/4	429-012	0.79
1 1/2	429-015	0.84
2	429-020	1.29
2 1/2	429-025	2.85
3	429-030	4.45
4	429-040	6.45
5	429-050	11.80
6	429-060	20.39
8	429-080	38.07
10	429-100	101.69
12	429-120	202.60

Note: Sizes 14" - 24" available.



Coupling FPT x FPT

Size (in.)	Part #	Price $
1/2	430-005	0.45
3/4	430-007	0.84
1	430-010	1.11
1 1/4	430-012	3.73
1 1/2	430-015	7.34
2	430-020	8.88



Cross Socket

Size (in.)	Part #	Price $
1/2	420-005	1.37
3/4	420-007	2.28
1	420-010	2.85
1 1/4	420-012	3.76
1 1/2	420-015	4.26
2	420-020	6.28
2 1/2	420-025	13.33
3	420-030	16.34
4	420-040	24.23



Reducer Tee Socket

Size (in.)	Part #	Price $
3/4 x 1/2 x 1/2	401-094	0.87
3/4 x 3/4 x 1/2	401-101	0.60
3/4 x 3/4 x 1	401-102	1.70
1 x 1/2 x 1	401-122	1.70
1 x 3/4 x 1/2	401-124	1.70
1 x 3/4 x 3/4	401-125	1.70
1 x 1 x 3/4	401-126	1.70
1 x 1 x 1/2	401-130	1.02
1 x 1 x 3/4	401-131	1.11
1 1/4 x 1 x 1/2	401-156	2.33
1 1/4 x 1 x 3/4	401-157	2.33
1 1/4 x 1 x 1	401-158	2.33
1 1/4 x 1 1/4 x 1/2	401-166	1.65
1 1/4 x 1 1/4 x 3/4	401-167	1.65
1 1/4 x 1 1/4 x 1	401-168	1.65
1 1/2 x 1 1/4 x 1/2	401-199	2.89
1 1/2 x 1 1/4 x 3/4	401-201	2.89
1 1/2 x 1 1/4 x 1	401-202	2.89
1 1/2 x 1 1/2 x 1/2	401-209	2.89
1 1/2 x 1 1/2 x 3/4	401-210	2.89
1 1/2 x 1 1/2 x 1	401-211	2.89
1 1/2 x 1 1/2 x 1 1/4	401-212	2.89
2 x 1 1/2 x 3/4	401-238	4.14
2 x 1 1/2 x 1	401-239	4.14
2 x 1 1/2 x 1 1/2	401-241	4.14
2 x 2 x 1/2	401-247	2.85
2 x 2 x 3/4	401-248	2.85
2 x 2 x 1	401-249	2.85
2 x 2 x 1 1/4	401-250	2.85
2 x 2 x 1 1/2	401-251	2.85
2 1/2 x 2 1/2 x 1	401-289	8.76
2 1/2 x 2 1/2 x 1 1/2	401-291	8.76
2 1/2 x 2 1/2 x 2	401-292	8.76
3 x 3 x 1	401-335	12.54
3 x 3 x 1 1/2	401-337	12.54
3 x 3 x 2	401-338	12.52
3 x 3 x 4	401-342	21.54
4 x 4 x 1	401-417	20.85
4 x 4 x 1 1/2	401-419	20.85
4 x 4 x 2	401-420	20.85
4 x 4 x 3	401-422	20.85
6 x 6 x 2	401-528	70.19
6 x 6 x 3	401-530	70.19
6 x 6 x 4	401-532	70.19
8 x 8 x 3	401-580	162.78
8 x 8 x 4	401-582	162.78
8 x 8 x 6	401-585	162.78



Male Adapter Socket x MPT

Size (in.)	Part #	Price $
3/8	436-003	1.23
1/2	436-005	0.32
3/4	436-007	0.36
1	436-010	0.65
1 1/4	436-012	0.79
1 1/2	436-015	1.06
2	436-020	1.38
2 1/2	436-025	4.09
3	436-030	5.97
4	436-040	7.62
5	436-050	12.55
6	436-060	19.87
8	436-080	90.28



Female Adapter Socket x FPT

Size (in.)	Part #	Price $
1/4	435-002	1.32
3/8	435-003	1.32
1/2	435-005	0.41
3/4	435-007	0.51
1	435-010	0.60
1 1/4	435-012	0.93
1 1/2	435-015	1.06
2	435-020	1.42
2 1/2	435-025	3.59
3	435-030	4.81
4	435-040	7.98
5	435-050	20.66
6	435-060	29.36
8	435-080	55.36



Cap Slip

Size (in.)	Part #	Price $
3/8	447-003	0.92
1/2	447-005	0.32
3/4	447-007	0.38
1	447-010	0.60
1 1/4	447-012	0.84
1 1/2	447-015	0.93
2	447-020	1.11
2 1/2	447-025	3.53
3	447-030	3.85
4	447-040	8.77
5	447-050	14.74
6	447-060	21.03
8	447-080	52.84

Note: Sizes 10" - 24" available.



Cap FPT

Size (in.)	Part #	Price $
3/8	448-003	1.24
1/2	448-005	0.69
3/4	448-007	0.79
1	448-010	1.20
1 1/4	448-012	1.42
1 1/2	448-015	1.48
2	448-020	2.62
2 1/2	448-025	3.85
3	448-030	5.04
4	448-040	8.86
6	448-060	20.92



Plug MPT

Size (in.)	Part #	Price $
1/4	450-002	0.66
3/8	450-003	1.06
1/2	450-005	0.97
3/4	450-007	1.05
1	450-010	1.70
1 1/4	450-012	1.80
1 1/2	450-015	1.92
2	450-020	2.48
2 1/2	450-025	3.45
3	450-030	5.23
4	450-040	11.80
6	450-060	32.86



Plug Spig

Size (in.)	Part #	Price $
3/8	449-003	0.97
1/2	449-005	0.79
3/4	449-007	0.93
1	449-010	1.11
1 1/4	449-012	1.48
1 1/2	449-015	1.89
2	449-020	2.33
2 1/2	449-025	3.98
3	449-030	5.27
4	449-040	11.93

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PVC Fittings - Schedule 40



Union Socket

Size (in.)	Part #	Price $
1/2	457-005	3.53
3/4	457-007	4.02
1	457-010	4.14
1 1/4	457-012	13.33
1 1/2	457-015	13.89
2	457-020	18.72
2 1/2	457-025	41.86
3	457-030	41.86
4	457-040	57.96
6	457-060	128.80



Union FPT x FPT

Size (in.)	Part #	Price $
1/2	458-005	3.96
3/4	458-007	6.61
1	458-010	9.02
1 1/4	458-012	15.49
1 1/2	458-015	15.83
2	458-020	19.45
2 1/2	458-025	27.68
3	458-030	44.44
4	458-040	58.97
6	458-060	131.05



Wye Socket

Size (in.)	Part #	Price $
1/2	475-005	1.55
3/4	475-007	2.42
1	475-010	3.39
1 1/4	475-012	5.22
1 1/2	475-015	6.69
2	475-020	20.07
2 1/2	475-025	45.88
3	475-030	33.82
4	475-040	63.78
6	475-060	134.94







Size (in.)	Reducing Bushing Spig x Socket Part #	Price $	Reducing Bushing Spig x FPT Part #	Price $	Reducing Bushing MPT x FPT Part #	Price $
3/8 x 1/4	N/A	N/A	N/A	N/A	439-052	1.70
1/2 x 1/4	437-072	0.68	438-072	0.79	439-072	1.70
1/2 x 3/8	437-073	0.69	438-073	0.79	439-073	1.70
3/4 x 1/4	N/A	N/A	438-098	0.79	439-098	1.06
3/4 x 3/8	N/A	N/A	438-099	0.79	439-099	1.06
3/4 x 1/2	437-101	0.38	438-101	0.60	439-101	1.06
1 x 1/4	N/A	N/A	438-128	0.96	439-128	1.48
1 x 3/8	N/A	N/A	438-129	0.96	439-129	1.48
1 x 1/2	437-130	0.69	438-130	0.96	439-130	1.48
1 x 3/4	437-131	0.69	438-131	0.96	439-131	1.48
1 1/4 x 1/2	437-166	0.93	438-166	1.48	439-166	2.20
1 1/4 x 3/4	437-167	0.93	438-167	1.48	439-167	2.20
1 1/4 x 1	437-168	0.93	438-168	1.48	439-168	2.20
1 1/2 x 1/2	437-209	0.97	438-209	1.70	439-209	2.66
1 1/2 x 3/4	437-210	0.97	438-210	1.70	439-210	2.66
1 1/2 x 1	437-211	0.97	438-211	1.70	439-211	2.66
1 1/2 x 1 1/4	437-212	0.97	438-212	1.70	439-212	2.66
2 x 1/2	437-247	1.61	438-247	2.28	N/A	N/A
2 x 3/4	437-248	1.61	438-248	2.28	439-248	2.70
2 x 1	437-249	1.61	438-249	2.28	439-249	2.85
2 x 1 1/4	437-250	1.61	438-250	2.28	439-250	2.85
2 x 1 1/2	437-251	1.61	438-251	2.28	439-251	2.85
2 1/2 x 1	437-289	2.59	438-289	3.32	N/A	N/A
2 1/2 x 1 1/4	437-290	2.59	438-290	3.32	N/A	N/A
2 1/2 x 1 1/2	437-291	2.59	438-291	3.32	N/A	N/A
2 1/2 x 2	437-292	2.59	438-292	3.32	439-292	9.95
3 x 3/4	437-334	3.82	N/A	N/A	N/A	N/A
3 x 1	437-335	3.82	438-335	3.82	N/A	N/A
3 x 1 1/4	437-336	3.82	438-336	3.82	N/A	N/A
3 x 1 1/2	437-337	3.82	438-337	3.82	N/A	N/A
3 x 2	437-338	3.82	438-338	3.82	439-338	11.77
3 x 2 1/2	437-339	3.82	438-339	3.82	439-339	11.77
4 x 2	437-420	8.52	438-420	8.51	N/A	N/A
4 x 2 1/2	437-421	8.52	438-421	8.51	N/A	N/A
4 x 3	437-422	8.52	438-422	8.51	N/A	N/A
6 x 2	437-528	21.10	N/A	N/A	N/A	N/A
6 x 3	437-530	21.10	N/A	N/A	N/A	N/A
6 x 4	437-532	21.10	438-532	31.15	N/A	N/A
8 x 4	437-582	73.63	N/A	N/A	N/A	N/A
8 x 6	437-585	73.63	N/A	N/A	N/A	N/A
10 x 6	437-626	365.25	N/A	N/A	N/A	N/A
10 x 8	437-628	365.25	N/A	N/A	N/A	N/A
12 x 8	437-668	406.20	N/A	N/A	N/A	N/A
12 x 10	437-670	406.20	N/A	N/A	N/A	N/A

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PVC Fabricated Fittings

LARGE DIAMETER 10” through 24” Schedule 40 and 80 Pressure Fittings

Schedule 40 and 80 SWB pressure fittings have been designed and manufactured to accommodate and perform as inline fittings in pressure systems. Standard fittings are tested and certified to the maximum operating pressures listed below unless otherwise noted.

Schedule 40: 10” - 18” 130PSI @ 73° F, 20” - 24” 120PSI @ 73° F

Schedule 80: 10” - 18” 130PSI @ 73° F, 20” - 24” not rated



90° Elbow
S x S



Size Inch	PVC-40 Part #	Price	PVC-80 Part #	Price
10	F406-100	227.38	F806-100	444.42
12	F406-120	349.77	F806-120	648.09
14	F406-140	468.44	F806-140	953.54
16	F406-160	694.68	F806-160	1185.92
18	F406-180	1033.19	F806-180	1526.69
20	F406-200	1162.08	F806-200	1800.02
24	F406-240	1453.23	F806-240	2693.35



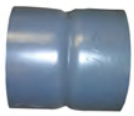
45° Elbow
S x S



Size Inch	PVC-40 Part #	Price	PVC-80 Part #	Price
10	F417-100	189.28	F817-100	310.43
12	F417-120	265.84	F817-120	443.78
14	F417-140	460.94	F817-140	637.76
16	F417-160	569.14	F817-160	825.88
18	F417-180	656.80	F817-180	1117.19
20	F417-200	896.79	F817-200	1403.25
24	F417-240	1191.62	F817-240	1651.99



Coupling
S x S



Size Inch	PVC-40 Part #	Price	PVC-80 Part #	Price
10	F429-100	80.69	F829-100	158.22
12	F429-120	118.79	F829-120	182.37
14	F429-140	192.89	F829-140	364.68
16	F429-160	215.14	F829-160	433.57
18	F429-180	366.89	F829-180	854.63
20	F429-200	640.05	F829-200	1053.72
24	F429-240	888.90	F829-240	1817.74



Tee
S x S



Size Inch	PVC-40 Part #	Price	PVC-80 Part #	Price
10	F401-100	332.30	F801-100	451.60
12	F401-120	441.63	F801-120	622.22
14	F401-140	868.13	F801-140	1117.50
16	F401-160	1228.86	F801-160	1760.50
18	F401-180	1527.15	F801-180	1900.71
20	F401-200	2033.71	-	2735.22
24	F401-240	2533.67	-	3280.73



Cross
S x S



Size Inch	PVC-40 Part #	Price	PVC-80 Part #	Price
10	F420-100	443.00	F820-100	809.77
12	F420-120	584.02	F820-120	1141.09
14	F420-140	970.19	F820-140	2028.96
16	F420-160	1417.23	F820-160	2572.22
18	F420-180	2007.88	-	3175.43
20	F420-200	3415.92	-	5360.88
24	F420-240	4498.90	-	6498.55



Cap
S x S



Size Inch	PVC-40 Part #	Price	PVC-80 Part #	Price
10	F446-100	105.29	F847-100	205.59
12	F446-120	132.96	F847-120	355.94
14	F446-140	226.08	F847-140	403.68
16	F446-160	289.42	F847-160	532.80
18	F446-180	320.24	F847-180	700.00
20	F446-200	564.10	F847-200	808.91
24	F446-240	833.84	F847-240	938.61

PVC Fabricated Fittings

LARGE DIAMETER 10” through 24” Schedule 40 and 80 Pressure Fittings



Extended Reducer Bushing PVC-40
Spigot x Hub



Flush Reducer Bushing PVC-80
Socket

Size Inch	PVC-40 Part #	Price $	PVC-80 Part #	Price $
10x4	F437-605	167.82	F837-605	501.98
10X6	F437-607	155.51	F837-607	363.55
10X8	F437-609	122.30	F837-609	167.94
12X6	F437-635	300.61	F837-635	439.93
12X8	F437-637	242.24	F837-637	425.65
12X10	F437-639	182.85	F837-639	195.82
14X8	F437-661	506.30	F837-661	618.70
14X10	F437-663	382.29	F837-663	372.84
14X12	F437-665	320.20	F837-665	185.35
16X8	F437-689	460.97	F837-689	810.45
16X10	F437-691	479.93	F837-691	587.10
16X12	F437-693	391.63	F837-693	346.50
16X14	F437-695	374.18	F837-695	338.50
18X12	F437-716	585.10	F837-716*	835.90
18X14	F437-718	543.14	F837-718*	815.95
18X16	F437-720	552.55	F837-720*	416.60
20X16	F437-818	917.23	F837-818*	1191.70
20X18	F437-820	834.04	F837-820*	648.02
24X20	F437-924	1274.26	F837-924*	1717.50

* Rated at 100PSI @ 73° F



Reducer Coupling
Socket



Size Inch	PVC-40 Part #	Price $	PVC-80 Part #	Price $
10x4	F429-605	190.64	F829-605	362.72
10X6	F429-607	177.66	F829-607	289.42
10X8	F429-609	124.35	F829-609	154.69
12X6	F429-635	271.80	F829-635	429.71
12X8	F429-637	239.21	F829-637	372.89
12X10	F429-639	181.01	F829-639	229.04
14X8	F429-661	404.25	F829-661	619.57
14X10	F429-663	341.42	F829-663	523.07
14X12	F429-665	303.20	F829-665	334.38
16X8	F429-689	517.49	F829-689	917.52
16X10	F429-691	462.16	F829-691	637.90
16X12	F429-693	419.58	F829-693	586.41
16X14	F429-695	363.88	F829-695	494.36
18X12	F429-716	761.55	F829-716	1064.49
18X14	F429-718	702.33	F829-718	1030.79
18X16	F429-720	524.64	F829-720	881.09
20X16	F429-818	1004.41	F829-818	1539.48
20X18	F429-820	887.34	F829-820	1061.59
24X20	F429-924	1165.35	F829-924	2268.83



Reducer Tee
SxSxS



Size Inch	PVC-40 Part #	Price $	PVC-80 Part #	Price $
10x4	F401-605	181.01	F801-605	367.71
10X6	F401-607	221.26	F801-607	404.38
10X8	F401-609	296.63	F801-609	423.76
12X6	F401-635	279.85	F801-635	512.39
12X8	F401-637	334.26	F801-637	564.15
12X10	F401-639	380.90	F801-639	571.54
14X8	F401-661	634.20	F801-661	1019.70
14X10	F401-663	720.90	F801-663	1072.72
14X12	F401-665	852.58	F801-665	1083.14
16X8	F401-689	711.79	F801-689	1139.49
16X10	F401-691	894.77	F801-691	1275.79
16X12	F401-693	1015.99	F801-693	1617.37
16X14	F401-695	1205.75	F801-695	1672.45
18X12	F401-716	1139.84	F801-716	1522.06
18X14	F401-718	1222.56	F801-718	1750.31
18X16	F401-720	1312.22	F801-720	1788.51
20X16	F401-818	1584.00	-	2425.68
20X18	F401-820	1747.21	-	2622.57
24X20	F401-924	2444.84	-	3149.64



45° Wye
SxSxS



Size Inch	PVC-40 Part #	Price	PVC-80 Part #	Price
10◊	F485-100	682.64	F884-100	904.11
12◊	F485-120	928.32	F884-120	1149.50
14◊	F485-140	1314.20	F884-140	1920.50
16◊	F485-160	1699.60	-	-
18◊	F485-180	2175.00	-	-
20◊	F485-200	2572.80	-	-
24◊	F485-240	3199.20	-	-



45° Reducer Wye
SxSxS



Size Inch	PVC-40 Part #	Price $	PVC-80 Part #	Price $
10x4◊	F485-605	459.28	F884-605	667.40
10X6◊	F485-607	506.38	F884-607	759.80
10X8◊	F485-609	542.03	F884-609	878.29
12X6◊	F485-635	592.14	F884-635	960.80
12X8◊	F485-637	686.27	F884-637	1052.05
12X10◊	F485-639	784.95	F884-639	1115.61
14X8◊	F485-661	958.37	F884-661	1128.76
14X10◊	F485-663	1070.89	F884-663	1256.88
14X12◊	F485-665	1198.22	F884-665	1428.17

◊10-16” Sch40 rated @ 100PSI, 18” - 75PSI, 20-24” rated @ 50PSI , All reducer Wyes in Sch40 rated @ 100PSI. All Sch80 Wyes rated @ 100PSI.

If size or configuration needed is not listed, please contact our sales office.

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PVC Fabricated Fittings

LARGE DIAMETER 10” through 24” Schedule 40 and 80



2 Piece Van Stone Flange Socket

Size Inch	PVC-80 Part #	Price
10◊	854-100	51.35
12◊	854-120	55.37
14*	F854-140	790.38
16*	F854-160	1041.55
18*	F854-180	1222.64
20*	F854-200	1481.58
24*	F854-240	1994.87

◊ Sizes are molded (metal ring) *14-16”- 150PSI, 18”- 75PSI, 20-24”- 50PSI



Blind Flange

Size Inch x thickness	PVC-80 Part #	Price
10x1*	F853-100	233.24
12x1*	F853-120	314.10
14x1*	F853-140	944.53
16x1*	F853-160	1119.68
18x1*	F853-180	1259.37
20x1*	F853-200	2035.41
24x1*	F853-240	2713.58

Note: *1” thick rated @ 50PSI



Threaded Plug MPT

Size Inch	PVC-80 Part #	Price
10*	F850-100	359.93
12*	F850-120	492.98

* (Cleanout) 10” rated @ 70PSI , 12” rated at 65PSI. (Threaded plugs are not rated)



Female Adapter Hub x FPT

Size Inch	PVC-80 Part #	Price
10*	F835-100	192.28
12*	F835-120	243.10

* 10” - 70PSI, 12” - 65PSI



Male Adapter Hub x MPT

Size Inch	PVC-80 Part #	Price
10*	F836-100	154.60
12*	F836-120	228.83

* 10” - 70PSI, 12” - 65PSI

Large diameter CPVC-80 molded and fabricated fittings are available in 10” & 12” sizes. Prices on application. Contact Sales office.

If size or configuration needed is not listed, please contact our sales office.

PVC Fabricated Fittings

Lasco 125 PSI Molded Class 125 Large Diameter Fittings



Tee

Size (in.)	Part #	Price $
10	401-100LP	181.83
12	401-120LP	272.74



Reducing Tee

Size (in.)	Part #	Price $
10 x 10 x 4	401-624LP	116.74
10 x 10 x 6	401-626LP	143.63
10 x 10 x 8	401-628LP	161.15
12 x 12 x 4	401-664LP	142.43
12 x 12 x 6	401-666LP	162.62
12 x 12 x 8	401-668LP	186.01
12 x 12 x 10	401-670LP	221.94



90° Elbow

Size (in.)	Part #	Price $
10	406-100LP	152.53
12	406-120LP	233.29



Street 90° Elbow

Size (in.)	Part #	Price $
10	409-100LP	213.04
12	409-120LP	268.47



45° Elbow

Size (in.)	Part #	Price $
10	417-100LP	97.50
12	417-120LP	142.96



Street 45° Elbow

Size (in.)	Part #	Price $
10	423-100LP	124.59
12	423-120LP	182.52



Coupling

Size (in.)	Part #	Price $
10	429-100LP	47.24
12	429-120LP	75.97



Reducer Coupling

Size (in.)	Part #	Price $
10 x 6	429-626LP	78.76
10 x 8	429-628LP	49.04
12 x 8	429-668LP	117.20
12 x 10	429-670LP	93.29



Reducer Bushing

Size (in.)	Part #	Price $
10 x 3	437-623LP	195.71
10 x 6	437-626LP	74.77
10 x 8	437-628LP	74.77
12 x 3	437-661LP	264.35
12 X 4	437-664LP	264.35
12 X 6	437-666LP	264.35
12 X 8	437-668LP	134.59
12 X 10	437-670LP	133.79



Cap

Size (in.)	Part #	Price $
10	447-100LP	54.38
12	447-120LP	89.52

Max Pressure: 125 PSI

GF 130 PSI Molded Large Diameter Fittings



Tee

Size (in.)	Part #	Price $
10	801-100LP	326.89
12	801-120LP	445.36



90° Elbow

Size (in.)	Part #	Price $
10	806-100LP	256.69
12	806-120LP	394.90



45° Elbow

Size (in.)	Part #	Price $
10	817-100LP	212.81
12	817-120LP	256.69



Coupling

Size (in.)	Part #	Price $
10	829-100LP	107.51
12	829-120LP	120.67

Max Pressure: 130 PSI

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PVC Accessories and Saddles

PVC Compression Fittings (Iron Pipe Size)

Pressure Coupling



Comp. x Comp.

Size	Part# White	Price	Part # Gray	Price
1/2	4012-005	$ 4.94	4012-005-G	5.09
3/4	4012-007	6.49	4012-007-G	6.83
1	4012-010	8.43	4012-010-G	8.82
1 1/4	4012-012	12.91	4012-012-G	13.60
1 1/2	4012-015	13.34	4012-015-G	14.04
2	4012-020	17.34	4012-020-G	18.22
2 1/2	4012-025	32.62	4012-025-G	34.31
3	4012-030	42.71	4012-030-G	44.85
4	4012-040	70.22	4012-040-G	73.80
6	4012-060	163.13	4012-060-G	167.82

Male Adapter



Comp x MPT

Size	Part #	Price
1/2	4013-005	$ 4.59
3/4	4013-007	5.54
1	4013-010	6.45
1 1/4	4013-012	7.60
1 1/2	4013-015	9.02
2	4013-020	12.61

Size	Part #	Price
1 1/4	4030	$ 5.83
1 1/2	4031	6.23
2	4032	6.70
3	4033	9.05
4	4034	11.33
5	4035	30.92
6	4036	24.22
8	4037	37.26
10	4038	90.23
12	4039	105.29
15	4040	135.47
3 x 2	1056-32	8.37
4 x 2	1056-42	15.79
4 x 3	1056-43	12.20
6 x 4	1056-64	28.44

Repair Coupling



Repair Break• Add Lateral • Install Valve
- PVC Schedule 40 • 150 psi pressure
- Self-lubricating "O" ring
- One piece cylinder- no solvent weld
- Unique removable cap allows disengagement & servicing of line

Size (in.)	Connection	Part #	Price
1/2	S x Spg	8950	$ 6.16
3/4	S x Spg	8951	7.00
1	S x Spg	8952	8.07
1 1/4	S x Spg	8953	15.22
1 1/2	S x Spg	8954	16.58
2	S x Spg	8955	25.64
3	S x Spg	8956	46.47
4	S x Spg	8957	81.33

Flexible Couplings - PVC





slip x slip

- Made of tough elastomeric polyvinyl chloride (PVC)
- Strong, resilient and unaffected by soil conditions.
- Resistant to chemicals, ultraviolet rays, fungus growth, and normal sewer gases.
- Sizes 1 1/4" to 15", other sizes available.
- All couplings are clearly marked with part number, size and pipe material that coupling will connect.

PVC Saddles

Saddles - PVC White 40 - EPDM O-ring Seals & Zinc plated Hardware

Clamp-On Saddle x Socket Single Outlet



2"-4" 235 psi, 6" 200 psi 8"-12" 150psi @ 73°F

Size	Hole Saw Dia	Part #	Price $
2 x 1/2	3/4	466E-247	35.73
2 x 1	1 1/8	466E-249	35.73
2 x 1 1/2	1 1/2	466E-251	35.73
3 x 1/2	7/8	466E-333	46.16
3 x 1	1 1/8	466E-335	46.16
3 x 2	2 1/4	466E-338	46.16
4 x 1/2	1 3/4	466E-415	59.12
4 x 1	1 1/8	466E-417	59.12
4 x 2	2 1/4	466E-420	59.12
4 x 3	3	466E-422	80.46
6 x 1/2	1 1/8	466E-523	106.06
6 x 1	1 1/8	466E-525	106.06
6 x 2	2 1/4	466E-528	106.06
6 x 4	4	466E-532	131.28
8 x 1/2	4	466E-573	163.02
8 X 1	4	466E-575	163.02
8 X 2	4	466E-578	163.02
8 X 4	4	466E-582	199.64
8 X 6	6	466E-585	221.53
10 X 4	4	466E-624	263.62
10 X 6	6	466E-626	303.18
12 X 4	4	466E-664	330.44
12 X 6	6	466E-666	390.44

Clamp-On Saddle x SR Thread Single Outlet



2"-4" 235 psi, 6" 200 psi 8"-12" 150psi @ 73°F

Size	Hole Saw Dia	Part #	Price $
2 x 1/2	3/4	467E-247SR	39.87
2 x 1	1 1/8	467E-249SR	39.87
2 x 1 1/2	1 1/2	467E-251SR	39.87
3 x 1/2	7/8	467E-333SR	55.60
3 x 1	1 1/8	467E-335SR	55.60
3 x 2	2 1/4	467E-338SR	55.60
4 x 1/2	1 1/8	467E-415SR	69.52
4 x 1	1 1/8	467E-417SR	69.52
4 x 2	2 1/4	467E-420SR	69.52
4 x 3	3	467E-422SR	79.85
6 x 1/2	1 1/8	467E-523SR	110.19
6 x 1	1 1/8	467E-525SR	115.99
6 x 2	2 1/4	467E-528SR	115.99
6 x 4	4	467E-532SR	158.77
8 x 1/2	4	467E-573SR	175.74
8 X 1	4	467E-575SR	175.74
8 X 2	4	467E-578SR	175.74
8 X 4	4	467E-582SR	215.20
8 X 6	6	467E-585SR	238.74
10 X 4	4	467E-624SR	284.08
10 X 6	6	467E-626SR	326.64
12 X 4	4	467E-664SR	356.13
12 X 6	6	467E-666SR	413.11

Other sizes, seals, and hardware material available. Contact Sales office.

PVC Saddles

Clamp-On Single Outlet Saddles - PVC Gray Schedule 80



Saddle x Socket



Saddle x SR Thread

PVC Clamp-On Saddles allow quick, easy and reliable addition of branch lines to existing piping system lines. These versatile saddle units can be used in either temporary or permanent installations on all types of pipe with IPS (Iron Pipe size) outside diameter, such as PVC, CPVC, Polyethylene, Polypropylene and Steel.

PSI:
2" - 4" 235 psi @ 73°F
6" 200 psi @ 73°F
8" - 12" 150 psi @ 73°F

EPDM O-Ring Seals and Zinc Plated Hardware

Size (in.)	Hole Saw Dia. (in.)	Saddle X Socket		Saddle X SR Thread	
		Part #	Price $	Part #	Price $
2 x 1/2	3/4	866-247	37.80	867-247SR	39.43
2 x 1	1 1/8	866-249	37.80	867-249SR	39.43
2 x 1 1/2	1 1/2	866-251	37.80	867-251SR	39.43
3 x 1/2	7/8	866-333	50.46	867-333SR	53.88
3 x 1	1 1/8	866-335	50.46	867-335SR	53.88
3 x 2	2 1/4	866-338	50.46	867-338SR	67.88
4 x 1/2	1 1/8	866-415	61.33	867-415SR	67.88
4 x 1	1 1/8	866-417	61.33	867-417SR	67.88
4 x 2	2 1/4	866-420	61.33	867-420SR	79.63
4 x 3	3	866-422	73.32	867-422SR	113.12
6 x 1/2	1 1/8	866-523	102.22	867-523SR	113.12
6 x 1	1 1/8	866-525	102.22	867-525SR	113.12
6 x 2	2 1/4	866-528	102.22	867-528SR	113.12
6 x 4	4	866-532	127.86	867-532SR	158.41
8 x 1/2	4	866-573	196.62	867-573SR	239.43
8 x 1	4	866-575	196.62	867-575SR	239.43
8 x 2	4	866-578	196.62	867-578SR	239.43
8 x 4	4	866-582	240.55	867-582SR	293.14
8 x 6	6	866-585	267.24	867-585SR	337.60
10 x 4	4	866-624	318.61	867-624SR	348.71
10 x 6	6	866-626	364.57	867-626SR	401.05
12 x 4	4	866-664	398.45	867-664SR	436.97
12 x 6	6	866-666	460.85	867-666SR	507.19

FPM O-Ring Seals and SS Hardware

Size (in.)	Hole Saw Dia. (in.)	Saddle X Socket		Saddle X SR Thread	
		Part #	Price $	Part #	Price $
2 x 1/2	3/4	866SV-247	67.58	867SV-247SR	75.39
2 x 1	1 1/8	866SV-249	67.58	867SV-249SR	75.39
2 x 1 1/2	1 1/2	866SV-251	67.58	867SV-251SR	75.39
3 x 1/2	7/8	866SV-333	90.58	867SV-333SR	100.80
3 x 1	1 1/8	866SV-335	90.58	867SV-335SR	100.80
3 x 2	2 1/4	866SV-338	90.58	867SV-338SR	100.80
4 x 1/2	1 1/8	866SV-415	116.56	867SV-415SR	127.27
4 x 1	1 1/8	866SV-417	116.56	867SV-417SR	127.27
4 x 2	2 1/4	866SV-420	116.56	867SV-420SR	127.27
4 x 3	3	866SV-422	127.42	867SV-422SR	138.20
6 x 1/2	1 1/8	866SV-523	172.71	867SV-523SR	186.94
6 x 1	1 1/8	866SV-525	172.71	867SV-525SR	186.94
6 x 2	2 1/4	866SV-528	172.71	867SV-528SR	186.94
6 x 4	4	866SV-532	191.78	867SV-532SR	219.35
8 x 1/2	4	866SV-573	315.39	867SV-573SR	334.06
8 x 1	4	866SV-575	315.39	867SV-575SR	334.06
8 x 2	4	866SV-578	315.39	867SV-578SR	334.06
8 x 4	4	866SV-582	386.11	867SV-582SR	408.99
8 x 6	6	866SV-585	428.55	867SV-585SR	448.19
10 x 4	4	866SV-624	510.11	867SV-624SR	486.52
10 x 6	6	866SV-626	586.45	867SV-626SR	559.79
12 x 4	4	866SV-664	639.19	867SV-664SR	610.13
12 x 6	6	866SV-666	741.53	867SV-666SR	707.64

NOTE: Other sizes, seals, and hardware material available. Double outlet saddles are also available. Contact Sales Office for more information.

Plastic Saddle Tees for Polyethylene Pipe



Features:
- Heavy duty PVC saddle tee bodies with glass-reinforced nylon T-bolts and nuts.
- Molded barb seal for superior sealing to poly pipe. Barb seals deeper and tighter as the poly pipe pressurizes. No o-rings or gaskets needed.
- Withstands over 400 psi without leaking.
- 2 1/2" length protects seal area if pipe is kinked or damaged near saddle tee.
- NO FLOW RESTRICTION
- NOT for use on RIGID PVC Pipe.

Plastic Saddle Tees for Polyethylene Pipe

Size (in.)	Color	Outlet FPT (in.)	Part #	Price $
3/4	Gray	1/2	4042	2.70
3/4	Gray	3/4	4043	2.82
1	White	1/2	4044	2.87
1	White	3/4	4045	3.06
1 1/4	White	1/2	4046	4.34
1 1/4	White	3/4	4047	4.54

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PVC Pipe - Schedule 120



ASTM D1784
ASTM D1785
ASTM D2672

NSF 14
NSF 61

Applications
High pressure corrosion resistant, IPS sizes 1/2" through 8", for use at temperatures up to and including 140°F. Pressure rating (380 psi to 1010 psi) varies with pipe size and temperature as stated in GF Harvel engineering bulletin (Product Bulletin 112/401). Generally resistant to most acids, bases, salts, aliphatic solutions, oxidants, and halogens. Chemical resistance data is available and should be referenced for proper material selection. Pipe exhibits excellent physical properties and flammability characteristics (independently tested flame and smoke characteristics-ULC). Typical applications include: chemical processing, plating, high purity applications, potable water systems, water and wastewater treatment, and other industrial applications involving corrosive fluid transfer where high pressures are encountered. Schedule 120 heavy wall dimensions provide sufficient wall thickness suitable for many drilling, tapping, and other custom machining/fabrication operations.

Temperature Derating
The working pressure ratings (W.P.) given are for water, non-shock, @ 73°F. The following temperature de-rating factors are to be applied to the working pressure ratings (W.P.) listed when operating at elevated temperatures.

Multiply the working pressure rating of the selected pipe at 73°F by the appropriate de-rating factor to determine the maximum working pressure rating of the pipe at the elevated temperature chosen.

EX: 6" PVC SCH 120 @ 130°F = ?
370 psi x 0.31 = 115 psi max. @ 130°F

THE MAXIMUM SERVICE TEMPERATURE FOR PVC IS 140°F.

Solvent cemented joints should be utilized when working at or near maximum temperatures. GF Harvel does not recommend the use of PVC for threaded connections at temperatures above 110°F; use flanged joints, unions, or roll grooved couplings where disassembly is necessary at elevated temperatures.

Threading requires a 50% reduction in pressure rating stated for plain end pipe @73°F.Chemical resistance data should be referenced for proper material selection and possible de-rating when working with fluids other than water. Refer to GF Harvel 112/401 Product Bulletin for chemical resistance and installation data.

Reference GF Harvel, Inc Product Bulletin 112/401 for information pertaining to chemical resistance, physical properties, joining methods, hangers and supports, collapse pressure ratings, system components and other system design and installation related data.

Temperature Derating

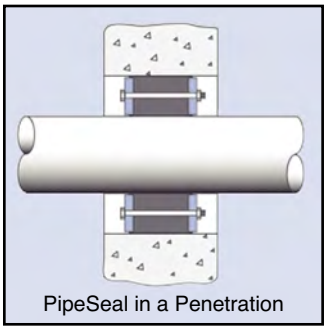
Operating Temp (°F)	De-Rating Factor
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130	0.31
140	0.22

PVC Pipe / Schedule 120

Nom. Pipe Size (in.)	O.D. (in.)	Average I.D. (in.)	Min. Wall (in.)	Nom. Wt. / Ft. (Lbs.)	Max. W.P. PSI (@ 73°F)	ALSCO #	Price $ / Ft.
1/2	0.840	0.480	0.170	0.236	1010	120-005	0.99
3/4	1.050	0.690	0.170	0.311	770	120-007	1.30
1	1.315	0.891	0.200	0.464	720	120-010	1.91
1 1/4	1.660	1.204	0.215	0.649	600	120-012	2.67
1 1/2	1.900	1.423	0.225	0.787	540	120-015	3.22
2	2.375	1.845	0.250	1.111	470	120-020	4.56
2 1/2	2.875	2.239	0.300	1.615	470	120-025	6.48
3	3.500	2.758	0.350	2.306	440	120-030	9.26
4	4.500	3.574	0.437	3.713	430	120-040	14.91
6	6.625	5.434	0.562	7.132	370	120-060	28.25
8	8.625	7.189	0.718	11.277	380	120-080	50.26

PipeSeal Belts

PipeSeal Belt Penetration Seals



PipeSeal in a Penetration

The PipeSeal is the fast and economical way to seal piping and conduit in wall and floor penetrations. Whether using the water seal or the fire stop seal, the benefits are clear.

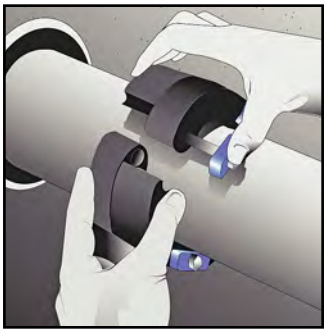
- **Quick Installation** - The PipeSeal installs in minutes compared to the other alternatives.
- **Long Life** - Designed as a permanent seal, it resists sunlight, ozone, water, and a range of chemicals.
- **Pressure Rated** - The PipeSeal can withstand 20 psi of pressure.
- **Vibration and Shock Protection** - Transfer of vibration and shock in a pipeline is greatly reduced by the rubber seal.
- **Versatile** - Three types of elastomers and a choice of plated carbon steel or 316 stainless steel hardware are provided for the water seals.

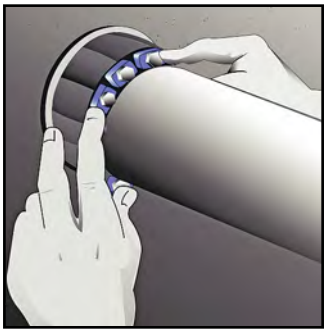
Each PipeSeal Belt contains 10 Links

Refer to Selection Chart below to determine how many links are needed for installation.

PipeSeal Model #	Min Seating Width (in.)	Price $ per Belt
PS200ES10	2.25	22.42
PS275ES10	2.25	30.74
PS300ES10	3	43.64
PS315ES10	3	69.54
PS325ES10	4	95.62
PS340ES10	4	105.00
PS360ES10	4	116.00
PS400ES10	5	137.00
PS410ES10	5	123.00
PS425ES10	5	123.00
PS475ES10	5	130.00
PS500ES10	5	277.00
PS525ES10	5	277.00
PS575ES10	5	233.00
PS600ES10	6	1111.00

PipeSeal Belt Installation







Follow these easy steps to ensure a good seal.

1. Make sure pipe is centered though out the sleeve or core opening. Plan on supporting the pipe at both ends as PipeSeals are not meant to act as supports and you should be able to adjust the pipe during seal installation.
2. Wrap the belt over the pipe as you begin installation. Make sure the bolt heads are facing the installer.
3. Connect the ends by passing the last bolt through the seal holes. Thread the bolt into the last pressure plate and tighten bolt head until snug.
4. For larger sizes, begin inserting the assembly at the 6 O'clock position and push the remaining seal in on both sides as you move up towards the 12 O'clock position. Use a light solution of soapy water as lubricant if needed.
5. Using a ratchet wrench, tighten each bolt moving about the belt in a clock-wise direction. Starting at the 12 o'clock position, tighten each bolt no more than 4 turns at a time until you start to see a slight bulge between each pressure plate. Expect to repeat this at least 3 times around the seal.

PipeSeal Belt Selection Chart - EPDM Seal / Glass Reinforced Plastic Pressure Plates / 316 SS Bolts / -40°F to +250°F Temp Range

Nominal Pipe Size (in.)	Actual Pipe O.D. (in.)	Schedule 40 PVC & CPVC Sleeves				Schedule 80 PVC & CPVC Sleeves				Core Drill or Cast Hole		
		Sleeve Nom. Pipe Size (in.)	Sleeve Actual I.D. (in.)	PipeSeal Model #	Number Of Links Needed	Sleeve Nom. Pipe Size (in.)	Sleeve Actual I.D. (in.)	PipeSeal Model #	Number Of Links Needed	Hole I.D. (in.)	PipeSeal Model #	Number Of Links Needed
1/2	0.840	2	2.047	PS200ES10	4	2 1/2	2.290	PS275ES10	5	2.000	PS200ES10	4
3/4	1.050	2 1/2	2.445	PS275ES10	6	2 1/2	2.290	PS275ES10	5	2.500	PS275ES10	6
1	1.315	2 1/2	2.445	PS200ES10	5	3	2.864	PS275ES10	7	3.000	PS315ES10	4
1 1/4	1.660	3	3.042	PS275ES10	8	3	2.864	PS200ES10	6	3.000	PS275ES10	8
1 1/2	1.900	3	3.042	PS200ES10	7	4	3.786	PS315ES10	6	3.500	PS300ES10	5
2	2.375	4	3.998	PS300ES10	6	4	3.786	PS300ES10	6	4.000	PS300ES10	6
2 1/2	2.875	4	3.998	PS200ES10	9	5	4.768	PS315ES10	8	4.000	PS200ES10	9
3	3.500	5	5.016	PS300ES10	8	5	4.768	PS275ES10	14	5.000	PS300ES10	8
4	4.500	6	6.031	PS300ES10	10	6	5.709	PS200ES10	14	6.000	PS300ES10	10
5	5.563	8	7.942	PS340ES10	13	8	7.565	PS325ES10	6	8.000	PS340ES10	13
6	6.625	10	9.976	PS475ES10	10	10	9.493	PS400ES10	7	10.000	PS475ES10	10
8	8.625	12	11.889	PS475ES10	12	12	11.294	PS360ES10	14	12.000	PS475ES10	12
10	10.750	14	13.073	PS425ES10	10	14	12.410	PS315ES10	24	14.000	PS475ES10	14
12	12.750	16	14.940	PS340ES10	27	18	16.014	PS475ES10	17	16.000	PS475ES10	17
14	14.000	18	16.809	PS360ES10	22	18	16.014	PS325ES10	15	18.000	PS575ES10	16
16	16.000	24	22.544	PS600ES10	10	24	21.418	PS500ES10	15	20.000	PS575ES10	18
18	18.000	24	22.544	PS525ES10	16	24	21.418	PS475ES10	23	22.000	PS575ES10	20
20	20.000	24	22.544	PS425ES10	18	24	21.418	N/A	N/A	24.000	PS575ES10	22

NOTE: Other seal types and pipe and tubing configurations are available.

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Solvent Cements

NOTE: All containers have applicator cap except #719 and all gallon containers.



PVC Solvent Cement (Clear)

705™ Medium bodied, fast setting, clear PVC cement for all classes & schedules through 6" diameter, Sch. 80 through 4" diameter.
3 year shelf life.

Size	Part #	Price
Gallon	705-G	$ 119.35
Quart	705-Q	35.05
Pint	705-P	22.00
1/2 Pint	705-H	12.50



PVC Solvent Cement (Gray)

711™ Heavy bodied, medium setting, gray PVC cement for all classes & schedules, including Schedule 80, through 12" diameter.
3 year shelf life.

Gallon	711-G	$ 155.55
Quart	711-Q	45.95
Pint	711-P	27.35
1/2 Pint	711-H	15.65



PVC Solvent Cement (Clear)

717™ Extra heavy bodied, medium setting, gray PVC cement for all classes & schedules with interference through 12" diameter, including Schedule 80.
3 year shelf life.

Gallon	717-GC	$ 153.65
Quart	717-QC	45.65
Pint	717-PC	27.05
1/2 Pint	717-HC	15.35



PVC Solvent Cement (Gray)

717™ Extra heavy bodied, medium setting, gray PVC cement for all classes & schedules with interference through 12" diameter, including Schedule 80.
3 year shelf life.

Gallon	717-GG	$ 153.65
Quart	717-QG	45.65
Pint	717-PG	27.05
1/2 Pint	717-HG	15.35



PVC Solvent Cement (Gray)

719™ Extra heavy bodied, slow setting, gray PVC cement for all classes & schedules, including Schedule 80, through 30" diameter.
2 year shelf life.

Gallon	719-G	$ 181.60
Quart	719-Q	55.05



PVC Solvent Cement (Blue)

721™ Medium bodied, fast setting, blue PVC cement for all classes & schedules through 6" diameter, Sch. 80 through 4" diameter.
3 year shelf life.

Gallon	721-G	$ 150.70
Quart	721-Q	43.80
Pint	721-P	26.15



Pool 'R (Blue fades to clear in Sunlight)

747™ Medium bodied, extremely fast setting, royal blue PVC cement for all classes & schedules through 6" diameter.
3 year shelf life.

Gallon	747-G	$ 144.70
Quart	747-Q	41.95
Pint	747-P	24.50
1/2 Pint	747-H	15.10



PVC Solvent Cement (Clear)

795™ Medium bodied, fast setting, clear PVC cement for all flex/ flex & flex/ rigid PVC pipe and fittings, through 6" diameter.
3 year shelf life.

Gallon	795-G	$ 156.25
Quart	795-Q	45.00
Pint	795-P	26.70
1/2 Pint	795-H	15.65



CPVC Solvent Cement (Gray)

714™ Heavy bodied, medium setting, gray CPVC cement for all classes and schedules, through 12" diameter.
2 year shelf life.

Quart	714-Q	$ 50.80
Pint	714-P	28.55



CPVC Solvent Cement (Gray)

724™ Heavy bodied, medium setting, gray CPVC cement for all classes and schedules, through 12" diam. Formulated for systems requiring chemical resistance to caustics including hypochlorite, mineral acids, & aqueous salt solutions. May be used on PVC systems for chemical applications. 2 year shelf life.

Gallon	724-G	$ 186.80
Quart	724-Q	54.10
Pint	724-P	30.65

Special Purpose Adhesives Continued on the next page with the Primers and Cleaners.

ALSCO™ Cements / Primers / Cleaners

NOTE: DO NOT USE PRIMER ON ABS PIPE AND FITTINGS



Multi-Purpose & Transition Cement (Clear)

790™ Medium bodied, fast setting, clear PVC / CPVC / ABS / Styrene cement for all classes & schedules through 6" diameter, Schedule 80 through 4" diameter. 3 year shelf life.

Quart	790-Q	$ 40.65
Pint	790-P	24.35
1/2 Pint	790-H	14.50



PVC Two Part Adhesive (White)

810 Two component, high strength reactive adhesive for joining, fabricating and repairing PVC and CPVC pipe and fittings. Bonds PVC, CPVC to dissimilar materials such as metals, concrete, clay and others. 1 year shelf life.

Size	Part #	Price
Gallon	810-G	$ 246.90
Quart	810-Q	75.65
Pint	810-P	49.45
4 Oz.	810-4oz	22.90



PVC & CPVC Purple Primer

P-68™ For all PVC and CPVC applications. Meets ASTM F-656 & SCAQMD 1168 LOW VOC PURPLE

3 year shelf life.

Size	Part #	Price
Gallon	P-68P-G	$ 107.80
Quart	P-68P-Q	35.80
Pint	P-68P-P	21.50
1/2 Pint	P-68P-H	11.65



PVC & CPVC Clear Primer

P-68™ For all PVC and CPVC applications. Meets ASTM F-656 & SCAQMD 1168 LOW VOC CLEAR

3 year shelf life.

Gallon	P-68C-G	$ 107.80
Quart	P-68C-Q	35.80
Pint	P-68C-P	21.50
1/2 Pint	P-68C-H	11.65



Clear Pipe Cleaner

C-65™ For all PVC ,CPVC, ABS and Styrene piping applications. SCAQMD 1168 LOW VOC CLEAR

Unlimited year shelf life.

Gallon	C-65-G	$ 83.15
Quart	C-65-Q	26.05
Pint	C-65-P	17.70
1/2 Pint	C-65-H	10.15



PVC & CPVC Clear Primer

P-70™ For all PVC and CPVC applications. The most aggressive primer commercially available.

Meets ASTM F-656 & SCAQMD 1168 LOW VOC CLEAR

3 year shelf life.

Gallon	P-70C-G	$ 134.35
Quart	P-70C-Q	40.85
Pint	P-70C-P	25.20
1/2 Pint	P-70C-H	12.70



PVC & CPVC Purple Primer

P-70™ For all PVC and CPVC applications. The most aggressive primer commercially available.

Meets ASTM F-656 & SCAQMD 1168 LOW VOC PURPLE

3 year shelf life.

Gallon	P-70P-G	$ 134.35
Quart	P-70P-Q	40.85
Pint	P-70P-P	25.20
1/2 Pint	P-70P-H	12.70



PVC & CPVC Purple Primer-Cleaner

PC-64™ For cleaning and surface preparation of PVC and CPVC pipe and fittings. LOW VOC PURPLE

3 year shelf life.

Gallon	PC-64-G	$ 99.25
Quart	PC-64-Q	34.20
Pint	PC-64-P	20.75
1/2 Pint	PC-64-H	11.15



Pipe Dope Compound

SELECT-UNYTE (TF8 and TF16) — Soft-set , White All Purpose Virgin PTFE* (PTFE) Paste Pipe Joint Compound. For use on Plastic, and Metal threaded systems carrying Air, Steam, Petroleum, Water, Gases and many Chemicals. TU555 — Soft-set, Yellow Pipe Joint Compound for use on Plastic, and Metal threaded systems carrying Air, Steam, Petroleum, Water, Gases, and many Chemicals.

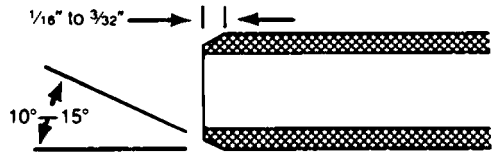
PTFE 1/2 Pint	TF8	$ 16.69
PTFE - 1 Pint	TF16	27.60
Regular - 1 Pint	TU16	25.68

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5 - Step Solvent Cement Instructions(GENERAL INSTRUCTIONS)

1. Condition pipe and fittings to the same temperature conditions. Cut ends of pipe square, using fine-toothed hand saw and miter box or power saw. Tube cutters with wheels designed for use with PVC are acceptable, provided they do not leave a raised bead on the outside diameter of the pipe.

2. Using a chamfering tool or file, put a 10° to 15° chamfer (bevel) on the end of the pipe. (Instructions continued on next page)



3. Check dry fit of the pipe and fittings. Pipe should enter the fitting about 1/3 to 3/4 depth. Position pipe and fitting to assure alignment. Using a clean rag, wipe the pipe surface and fitting socket to remove all dirt, moisture, and grease. If wiping fails to clean the surfaces, a chemical cleaner must be used.

4. Using a clean, natural bristle brush about 1/2 the size of the pipe diameter, freely apply the primer to the fitting socket with a scrubbing motion until the surface is penetrated. Repeated applications may be necessary. Now apply the primer to the pipe surface equal to the depth of the fitting socket in the same manner, making sure the surface is well penetrated. Again apply primer to the fitting socket, to make sure it is still damp.

5. Using a clean natural bristle brush 1/2 the size of the pipe diameter (not a dauber brush), flow on a heavy coat of solvent cement to the male end of the pipe. Load the brush and do not trim. The amount should be more than sufficient to fill any gap. Next apply a liberal coat of solvent cement to the inside of the socket, using straight outward strokes to keep excess cement out of the socket. While BOTH SURFACES are STILL WET with solvent cement, insert the pipe into the socket with a 1/4 turn twisting motion. The pipe MUST go to the BOTTOM of the socket. The application of solvent cement to pipe and fitting, and the insertion of the pipe into the fitting, should be completed in LESS THAN 1 MINUTE. If necessary, use two men to simultaneously apply the solvent cement to pipe and fitting. Hold the joint together for approximately 30 seconds until both surfaces are firmly gripped. Allow proper set time before disturbing joints. After assembly, a properly-made joint will usually show a bead of cement around its entire perimeter. This should be brushed off. Allow the joint to cure for an adequate time before pressure testing.

Initial Set Times for Heavy Weight PVC & CPVC Solvent Cements

Temperature Range	Pipe Sizes 1/2" to 1 1/4"	Pipe Sizes 1 1/2" to 3"	Pipe Sizes 4" to 8"	Pipe Sizes 10" to 20"	Pipe Sizes 18" to 24"
60° - 100°F	15 Min.	30 Min.	1 Hr.	2 Hr.	3 Hr.
40° - 60°F	1 Hr.	2 Hr.	4 Hr.	8 Hr.	12 Hr.
0° - 40°F	3 Hr.	6 Hr.	12 Hr.	24 Hr.	36 Hr.

Joint Cure Schedule for Heavy Weight PVC & CPVC Solvent Cements

Relative Humidity 60 % or Less	Cure Time Pipe Sizes 1/2" to 1 1/4"		Cure Time Pipe Sizes 1 1/2" to 3"		Cure Time Pipe Sizes 4" to 8"		Cure Time Pipe Sizes 10" to 16"	Cure Time Pipe Sizes 18" to 24"
Temperature Range During Assembly and Cure Periods	Up to 180 psi	Above 180 to 370 psi	Up to 180 psi	Above 180 to 315 psi	Up to 180 psi	Above 180 to 315 psi	Up to 100 psi	Up to 100 psi
60° - 100°F	1 Hr.	6 Hr.	2 Hr.	6 Hr.	6 Hr.	24 Hr.	4 Hr.	36 Hr.
40° - 60°F	2 Hr.	12 Hr.	4 Hr.	24 Hr.	12 Hr.	48 Hr.	40 Hr.	72 Hr.
0° - 40°F	8 Hr.	48 Hr.	16 Hr.	96 Hr.	48 Hr.	8 Days	8 Days	10 to 12 Days

TEMPERATURE CORRECTION FACTORS

Operating Temperature (F°)	73.4	80	90	100	110	115	120	125	130	140	150	160	170	180	200
PVC 1120	1.00	.88	.75	.62	.50	.45	.40	.35	.30	.22	Not Recommended				
CPVC 4120	1.00	1.00	.91	.82	.77	.74	.65	.66	.62	.50	.47	.40	.32	.25	N/R

Estimated Quantities of PVC / CPVC cement

Size Fittings (in.)	Pint # of Joints	Quarts # of Joints
1/2	190	380
3/4	120	240
1	100	200
1 1/4	70	140
1 1/2	50	100
2	30	60

Estimated Quantities of PVC / CPVC cement

Size Fittings (in.)	Pint # of Joints	Quarts # of Joints
2 1/2	25	50
3	20	40
4	12	24
5	9	18
6	5	10
8	-	5

Cement & Primer Applicators

	Description	Part #	Price $
	**PB1** Plastic Handle Brush Fits standard pint and quart cans.	PB1	10.85
	**CM-BCP Can-Mate® Adjustable Plastic Brush** Natural bristle, 1" cap. Fits standard 1/2 pint, pint and quart cans.	CM-BCP	10.50
	**SuperDauber 75 Can-Mate® Adjustable Plastic Dauber** 3/4" dauber, for Pipe diameters up to 1 1/4". Fits standard 1/2 pint, pint and quart cans.	10832	5.90
	**SuperDauber 150 Can-Mate® Adjustable Plastic Dauber** 3/4" dauber, for Pipe diameters up to 3". Fits standard 1/2 pint, pint and quart cans.	10833	5.90
	**DP-75 Cap Dauber** 3/4" dauber, for Pipe diameters up to 1 1/4". Fits standard 1/2 pint and 1 pint cans.	DP-75	1.35
	**DP-150 Cap Dauber** 1 1/2" dauber, for Pipe diameters up to 3". Fits standard 1/2 pint and 1 pint cans.	DP-150	1.45
	**DQ-150 Cap Dauber** 1 1/2" dauber, for Pipe diameters up to 3". Fits quart cans.	DQ-150	1.45
	**4020 Swab** For use on pipe diameters 6" and larger. Fits MT-648 gallon cans.	4020	20.80
	**7020 Jumbo Roll-A-Weld** 7" roller for use on pipe diameters 6" and larger. Fits MT-648 gallon cans.	7020	20.80
	**SuperSwab** Shed-resistant swab material-best for smooth full application of cements or primers. Product designed to handle 4"-8" pipe diameters. Extra-long handle for convenient grip. Adjustable length and dual cap design that fits quart and gallon containers. Disposable swab, reusable handle.	14108	20.05
	SuperSwab Replacement Swabs Replacement swabs (4 swabs per bag).	14109	31.55



Empty Metal Cans -
Writable surface for content identification.

Description	Mfg Part #	Price $
Gallon Can with 2 7/8" Neck	MT-648	21.95
Quart Can with 1 3/4" Neck	MT-651	7.55
Quart Can with Paint Type Neck	MT-653	7.55
Pint Can with 1 3/4" Neck	MT-654	6.55

PIPE DOPE

SELECT-UNYTE (TF8 and TF16) - Soft-set , White All Purpose Virgin PTFE* (PTFE) Paste Pipe Joint Compound. For use on Plastic, and Metal threaded systems carrying Air, Steam, Petroleum, Water, Gases and many Chemicals. Meets Federal Specification TT-S-1732.

TU16 — Soft-set, Yellow Pipe Joint Compound for use on Plastic, and Metal threaded systems carrying Air, Steam, Petroleum, Water, Gases, and many Chemicals. Meets Federal Specification TT-S-1732

Description	Mfg Part #	Price $
PTFE - 1/2 Pint	TF8	16.19
PTFE - 1 Pint	TF16	26.80
Regular - 1 Pint	TU16	24.92



PTFE Tape
Quantity Discounts Available.
Thread Seal Tape (White Standard) with PTFE®.
Complies with MIL-T-27730A Specifications

Size (in.)	Mfg Part #	Price $
1/2 x 260	S260	0.95
1/2 x 520	S520	1.42
3/4 x 260	SW260	1.38
3/4 x 520	SW520	1.68
1 x 520	SX520	1.72



PTFE Tape - 1429" Roll

Size (in.)	Mfg Part #	Price $
1/2 x 1429	70885	5.68
3/4 x 1429	70886	7.73

Blue Monster® PTFE Thread Seal Tape - Professional Grade

Description:
Rugged, general purpose tape in a monstrous 1429" roll! Ideal for hundreds of applications. Blue Monster is a higher-quality PTFE sealing tape that is easier to apply. Blue Monster has not been stretched during the manufacturing process, so it is thicker and creates a more effective seal with less tape, and no need for pipe dope. Use Blue Monster on threads made from galvanized steel, iron, brass, copper, aluminum, stainless steel, polyethylene, polypropylene, PVC, CPVC, ABS, fiberglass and more.

Specifications:
- Seals fittings at pressures up to 10,000 PSI.
- Temperature range -450°F to +500°F (-268°C to +260°C).
- Seals threads effectively in more applications.
- Acts as a thread lubricant and anti-seize.
- Will not harden or crack.

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Strap Wrenches

Provides gripping power without scratching or deforming plastic or polished metal pipe. The extra strong, coated polyester strap is far superior to competitor's cotton straps for slip resistance, strength, and durability.

Pipe Capacity		Tube Capacity		Handle Length (in.)	Catalog #	Mfg Item Code #	Price $
In-Nom.	Actual O.D. (mm)	Actual O.D. (in.)	Actual O.D. (mm)				
1/8 - 2	10 - 63	3 1/2	90	12	SW12A30	02247	43.07
1/8 - 2	10 - 63	5 1/2	135	12	SW12A	02248	37.44
1 - 5	33 - 127	6	150	18	SW18A	02249	74.89
2 - 12	60 - 324	14	350	24	SW24A	02250	90.33



Chain Wrenches

Turn any shape in close quarters. Dual reversible jaws permit ratchet action in either direction without removing the wrench from the pipe. Reed chain wrenches offer by far the most sizes and are longer lasting because they have up to twice as many chain slots as any competitive tool.

Pipe Capacity		Maximum O.D. (in.)	Handle Length (in.)	Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
In-Nom.	Actual O.D. (mm)						
1/8 - 2	10 - 36	4.6	14	3.2	WA14	02040	71.51
1 - 6	33 - 168	8.5	44	29.4	WA48	02080	480.31
2 1/2 - 18	73 - 457	18	46	90.0	WA84	02094	1768.76



Cutters

Quick release tubing cutters were invented by Reed! Reed uses a ball detent or threaded screw for the wheel pin, whereas competitors use a grooved pin and clip which is easily lost and makes wheel change extremely difficult.

Capacity		Length (in.)	Weight (lbs.)	Wheel	Catalog #	Mfg Item Code #	Price $
Actual O.D. (in.)	Actual O.D. (mm)						
3/8 - 3 1/2	10 - 90	11	2.5	30 - 40P	TC3QP	04130	117.21
1 7/8 - 4 1/2	48 - 114	12	2.8	30 - 40P	TC4QP	04140	137.87
4 - 6 5/8	102 - 168	15	3.5	30 - 40P	TC6QP	04160	173.83
6 1/4 - 10	159 - 254	26	8	80P	TC8QP	04170	716.67



Shears for Plastic and Replacement Blades

Scissor Shears cut up to 1-1⁄4" diameter and are ideal for cutting thin wall and small diameter PE, rubber or nylon tubing. Ratchet Shears are ideal for cutting PVC, PE, PP, PEX, and ABS pipe and tubing. Smoothest ratchet action for easiest cuts. Replace or resharpen blades for longer tool life and faster cuts.

Capacity		Length (in.)	Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
Actual O.D. (in.	Actual O.D. (mm)					
1.3	32	8.25	0.3	SC1	04174	16.51
1.66	42	8.3	0.8	RS1	04176	73.57
2.4	63	17.0	2.8	RS2	04177	140.61
Replacement High Carbon Steel Blade fits SC1				SC1B	94170	6.50
Replacement Hardened Steel Blade fits RS1				RS1B	94175	27.06
Replacement Hardened Steel Blade fits RS2				RS2B	94176	36.61



Plastic Pipe Saws and Replacement Blades

Tooth design, tooth set, and hardness are designed for efficiency and longevity when cutting highly abrasive ABS and PVC pipe. Die cast design of handle makes blade changing fast and easy. Blades are interchangeable with most manufacturers. PPS provides fastest cuts on large, thick pipe. Blade design allows simultaneous cutting forward and backward.

Capacity		Length (in.)	Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
Actual O.D. (in.	Actual O.D. (mm)					
3	75	16	0.6	PPS12	04512	19.69
4	100	22	0.7	PPS18	04510	22.09
Replacement Blade fits PPS12				PPS12B	94512	10.27
Replacement Blade fits PPS18				PPS18B	94510	13.07



Cutter for Large Diameter Pipe

Excellent for in-the-trench or above ground cutting, with only 6" - 8" clearance around PE or PVC pipe. Outboard rollers keep cutter aligned on pipe to ensure a square cut. Simultaneously produces a 15° bevel on both sides of PVC cut. Long lasting, carbide-tipped blades penetrate up to 2" wall thickness. Includes both bevel and cutting blades.

Pipe Capacity		Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
In-Nom.	Actual O.D. (mm)				
6 - 12	160 - 315	52	PLAS1	04470	1249.29
14 - 18	355 - 500	57	PLAS2	04475	1680.41
14 - 24	355 - 630	62	PLAS3	04480	1864.76
14 - 28	355 - 800	68	PLAS4	04485	2028.80



PVC Drill Taps

These unique PVC drill taps retain the coupon and, with three cutting edges and spiral flutes, eject three continuous ribbons of PVC. Other designs cause chip and heat build-up, and are not as precise or as free cutting. Direct tapping also eliminates the need for costly tapping saddles.

Drill Size (in.)	Thread	Pipe Material	Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
3/4	CC	C900 PVC	1.0	DT75P	04396	306.57
1	CC	C900 PVC	1.4	DT100P	04397	380.79



Bevelers

With a strong aluminum alloy frame, effective roller locking, and good tool life, a smooth 15° bevel is produced on all types of plastic pipe in about one minute. Easily adjustable for different pipe sizes and thicknesses, with no part changes. A faster, more consistent bevel than a file or an abrasive saw. It creates a continuous ribbon rather than chips and dust.

Pipe Capacity		Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
In-Nom.	Actual O.D. (mm)				
1 1/2 - 8	40 - 200	3.0	BT1	04395	238.73
1 1/2 - 12	40 - 300	6.1	BT2	04398	385.49



Drill-Powered Bevelers for Plastic Pipe

The Drill-Powered Chamfer Tool attaches to an electric or cordless drill (not included) to deburr and chamfer both the inner and outer diameters of plastic pipe such as PVC, CPVC, ABS and PE. Reed's PB series chamfer tools create a smooth, consistent 15° chamfer in seconds. Reed's drill-powered chamfer tools are available in a kit consisting of 2", 3" and 4" sizes in a job site quality case or individually by size.

Description	Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
Kit with 2", 3" and 4" Bevelers with Case	6.6	PBKIT	04660	544.29
2" Beveler	0.4	PB2	04662	163.57
3" Beveler	0.5	PB3	04663	170.71
4" Beveler	0.7	PB4	04664	177.86



DEB1IPS-INT

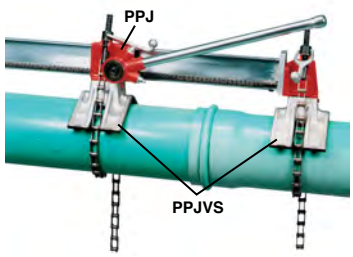


DEB4

Deburring Tools for Plastic Pipe

DEB1-2CTS: Deburrs outer edges of pipe 1-1/4", 1-1/2" and 2" in diameter.
DEB1IPS-INT: Deburrs inner and outer edges of pipe 1/2", 3/4" and 1" in diameter.
DEB2: Deburrs inner and outer edges of pipe up to 2" in diameter.
DEB4: Gives smooth, chamfered pipe end so solvent spreads evenly as pipe is joined. Deburrs fast - one easy revolution produces a 3/32" 15° chamfer in seconds.

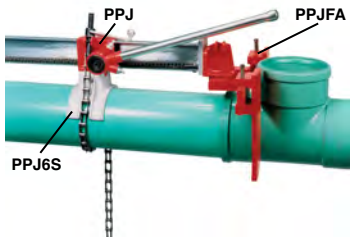
Pipe Capacity		Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
In-Nom.	Actual O.D. (mm)				
1-1/4, 1-1/2, 2	32, 38, 51	0.9	DEB1-2CTS	04656	79.73
12, 3/4, 1	13, 19, 25	0.6	DEB1IPS-INT	04670	110.00
Up to 2	Up to 60	0.2	DEB2	04436	23.41
1-1/4 - 4	42 - 114	0.8	DEB4	04430	71.40



Plastic Pipe Joiners

With 28 to 1 leverage, it is easy for one person to join plastic pipe up to 16" or up to 12" where solvent cement is used.
FOR GASKETED PIPE: The Plastic Pipe Joiner can connect and separate 4" - 16" gasketed pipe. Components required for joining include the Plastic Pipe Joiner and V-shaped saddles.
FOR SOLVENT CEMENT CONNECTIONS: The Plastic Pipe Joiner connects solvent cement joints on all pipe schedule, IPS, and water pipe from 4" - 12". For solvent cement connections, individually sized saddles must be ordered together with the Plastic Pipe Joiner and plastic pipe joiner fitting attachment.

Description	Pipe Capacity		Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
	In-Nom.	Actual O.D. (mm)				
Plastic Pipe Joiner	-	-	44.0	PPJ	04446	1242.10
Fitting Attachment for solvent cement branch connections only	4 - 12	114 - 324	39.0	PPJFA	04439	546.64
Universal V-shaped Saddles for gasketed pipe	4 - 16	114 - 434	8.0	PPJVS	04441	675.43



Description	O.D. Capacity		Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
	Actual O.D. (in.)	Actual O.D. (mm)				
Pair of 4" Saddles for Solvent Cement Connection	4.5	114	4.0	PPJ4S	04442	173.29
Pair of 6" Saddles for Solvent Cement Connection	6.6	168	4.5	PPJ6S	04444	205.54
Pair of 8" Saddles for Solvent Cement Connection	8.8	224	6.0	PPJ8S	04447	259.04
Pair of 10" Saddles for Solvent Cement Connection	10.8	273	7.0	PPJ10S	04448	427.51
Pair of 12" Saddles for Solvent Cement Connection	12.8	324	7.0	PPJ12S	04449	567.66



Chain Vises for Plastic or Metal Pipe

Chain Vises permit the holding of irregular shapes and provide an excellent cost-for-capacity value. Reed chain vises are the fastest to use: two turns to open or close. These chain vises are the strongest available and hardened tool steel jaws are triple-faced for rotations instead of replacements, providing two free sets of jaws.

Pipe Capacity		Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
In-Nom.	Actual O.D. (mm)				
1/8 - 2 1/2	10 - 75	9.3	CV2	02510	148.93
1/8 - 4	10 - 114	14.6	CV4	02520	242.79
1/4 - 6	14 - 168	28.4	CV6	02540	443.46
1/2 - 8	21 - 219	16.3	CV8	02550	582.49



Utility Workshop Vises with Swivel Base

Worthy "small brothers" of Reed machinists' vises. Ideal utility workshop vise. Replaceable serrated facings, permanently mounted pipe jaws, anvil, and horn.

Throat Depth (in.)	Jaw Width (in.)	Jaws Open (in.)	Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
2 1/2	4 1/2	4	18.0	24 1/2C	01522	114.11
3	5 1/2	5	27.0	25 1/2C	01532	141.47
3 3/8	6 1/2	6	41.0	26 1/2C	01542	189.37
4 3/16	6	6	60.0	26B	01545	251.03



Vise Tripod - R450+ Series TriStands

Reed tristands fold into compact shape, have handle grips, and have the lightest weight for the easiest portability of all tristands. The sturdiest, most capacity, have the only double faced jaws and have by far the greatest value of all tristands available.

Pipe Capacity		Vise Style	Folded Length (in.)	Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
In-Nom.	Actual O.D. (mm)						
1/8 - 6	10 - 178	Chain	44	36.3	R450+	02306	488.96
1/8 - 6	10 - 178	Chain	44	36.3	R450P	04457	580.37
1/8 - 2 1/2	10 - 75	Yoke	51	39.1	R40+	02311	591.26

NOTE: R450+ has two sided jaws for up to 6" metal pipe. R450P has one side for metal and one side for plastic.



Vise Stand for Large Diameter Pipe

This pipe stand is specifically designed for steel, ductile iron, and plastic pipe up to 20". With 1 1/2" steel pipe legs and high-tensile aluminum castings, this vise can hold 2,500 lbs, yet without its legs, weighs only 22 lbs. The stand sets up quickly in the field with only four bolts to tighten. 40" legs and a 72" backbone are recommended for normal use, with 12" legs recommended for larger diameter, heavier pipe.

Description	Pipe Capacity		Weight (lbs.)	Catalog #	Mfg Item Code #	Price $
	In-Nom.	Actual O.D. (mm)				
Feet, Bracket and Vise	2 - 20	50 - 500	22	FPV20	06027	707.14
40" Legs and 72" Backbone	-	-	50	FPVBBLS	96014	241.67

NOTE: To create legs and backbone, use 1-1/2" nominal diameter Sch. 40 steel pipe.

ASAHI Air-Pro™ Compressed Air Piping System



The Air-Pro piping system is specifically constructed for compressed air. It has been extensively tested in numerous compressed applications, allowing Asahi/America to offer a safe, reliable system with the many advantages of thermoplastic construction. These include convenient light weight, faster/ lower cost/more flexible installation, minimal system pressure drop, and corrosion resistance.

The Air-Pro system is composed of Solvay TUB 124 blue high density polyethylene (HDPE) resin which is extremely ductile. The pipe will expand at the point of failure and tear open without fragmentation. Burst pressure testing has conclusively shown that this system would fail leaving only a small safe tear. The system can handle operating pressure of 230 psi with a safety factor of 2.5.

Pipe

* 16.4 ft. Lengths (Sold in 5 meter lengths only)

Size Inch	Part #	Price * Per Ft.	Price * Length	Outside Dia. (in.)	Wall (in.)	Wt. Per Ft. (lbs.)
1/2	9500-005	$1.83	$30.00	0.79	0.110	0.10
3/4	9500-007	$2.56	42.00	0.98	0.138	0.16
1	9500-010	$4.27	70.00	1.26	0.173	0.26
1 1/4	9500-012	$6.71	110.00	1.58	0.217	0.40
1 1/2	9500-015	$10.37	170.00	1.97	0.272	0.63
2	9500-020	$16.46	270.00	2.48	0.339	0.99
3	9500-030	$21.34	350.00	3.54	0.484	2.01
4	9500-040	$29.51	500.00	4.33	0.594	3.01
6	5803-060	$37.74	560.00	6.30	0.575	4.48
8	5803-080	$67.87	860.00	7.87	0.717	6.99
10	5803-100	$79.90	1310.00	9.84	0.894	10.89
12	5803-120	$126.20	2070.00	12.40	1.126	17.21

Note: 6" - 12" pipe is black in color, SDR 11 and rated @ 160psi and is Butt Fusion only.

Coupling socket



Size (in.)	Part #	Price
1/2	9504-005	$5.00
3/4	9504-007	$6.00
1	9504-010	$8.00
1 1/4	9504-012	$12.00
1 1/2	9504-015	$30.00
2	9504-020	$40.00
3	9504-030	$65.00
4	9504-040	$114.00

90° Elbow socket



Size (in.)	Part #	Price
1/2	9501-005	$6.00
3/4	9501-007	$7.00
1	9501-010	$8.00
1 1/4	9501-012	$18.00
1 1/2	9501-015	$36.00
2	9501-020	$48.00
3	9501-030	$140.00
4	9501-040	$208.00

45° Elbow socket



Size (in.)	Part #	Price
1/2	9502-005	$6.00
3/4	9502-007	$7.00
1	9502-010	$8.00
1 1/4	9502-012	$18.00
1 1/2	9502-015	$36.00
2	9502-020	$48.00
3	9502-030	$140.00
4	9502-040	$197.00

Electrofusion Coupling Butt Fusion Black



Size (in.)	Part #	Price
1/2	5817-005	19.00
3/4	5817-007	22.00
1	5817-010	23.50
1 1/4	5817-012	24.50
1 1/2	5817-015	39.00
2	5817-020	40.00
3	5817-030	76.00
4	5817-040	91.00
6	5817-060	178.00
8	5817-080	301.00
10	5817-100	571.00
12	5817-120	889.00

90° Elbow Elongated Butt Fusion Black



Size (in.)	Part #	Price
6	5811-060	$260.00
8	5811-080	346.00
10	5811-100	768.00
12	5811-120	1377.00

45° Elbow Elongated Butt Fusion Black



Size (in.)	Part #	Price
6	5809-060	$220.00
8	5809-080	311.00
10	5809-100	719.00
12	5809-120	1358.00

Reducer Bushing Spig x socket



Size (in.)	Part #	Price
3/4x1/2	9506-101	$6.00
1x1/2	9506-130	$7.00
1x3/4	9506-131	$7.00
1 1/4x1	9506-168	$14.00
1 1/2x1	9506-211	$20.00
1 1/2x1 1/4	9506-212	$20.00
2x1	9506-249	$32.00
2x3/4	9506-248	$32.00
2x1 1/2	9506-251	$32.00
3x2	9506-338	$63.00
4x2	9506-420	$84.00
4x3	9506-422	$72.00

Elongated Conc. Reducer Butt Fusion Black



Size (in.)	Part #	Price
6x4	5831-532	$140.00
8x6	5831-585	189.00
10x6	5831-627	410.00
10x8	5831-628	429.00
12x8	5831-660	736.00
12x10	5831-673	736.00

Pipe Hangers



Size (in.)	Part #	Price
2	9515-020	$18.00
3	9515-030	$19.00
4	9515-040	$23.00

ALSCO Industrial Products, Inc. · 1265 Mount Vernon Rd. · Lithia Springs, GA. 30122 · FAX 770-739-7549
770-941-3030 · 1-800-849-3030 · www.alscoplastics.com · 073118

ASAHI Air-Pro™ Compressed Air Piping System

Tee socket



Size (in.)	Part #	Price
1/2	9505-005	$7.00
3/4	9505-007	$7.00
1	9505-010	$10.00
1 1/4	9505-012	$18.00
1 1/2	9505-015	$48.00
2	9505-020	$64.00
3	9505-030	$187.00
4	9505-040	$246.00

Tee Elongated Butt Fusion Black



Size (in.)	Part #	Price
6	5823-060	$360.00
8	5823-080	680.00
10	5823-100	1060.00
12	5823-120	2000.00

Cap socket



Size (in.)	Part #	Price
1/2	9503-005	$6.00
3/4	9503-007	$7.00
1	9503-010	$7.00
1 1/4	9503-012	$12.00
1 1/2	9503-015	$26.00
2	9503-020	$36.00
3	9503-030	$68.00
4	9503-040	$89.00

Cap Elongated Butt Fusion Black



Size (in.)	Part #	Price
6	5813-060	130.00
8	5813-080	220.00
10	5813-100	380.00
12	5813-120	720.00

Gooseneck



Size (in.)	Part #	Price
1/2	9514-005	$310.00
3/4	9514-007	$360.00
1	9514-010	$370.00

Red. Tee socket



Size (in.)	Part #	Price
3/4x1/2	9507-101	$11.00
1x1/2	9507-130	$12.00
1x3/4	9507-131	$14.00
1 1/4x1/2	9507-166	$36.00
1 1/4x3/4	9507-167	$36.00
1 1/2x1/2	9507-208	$60.00
1 1/2x3/4	9507-210	$60.00

Other Sizes Available

Tee Elongated Butt Fusion Black



Size (in.)	Part #	Price
6x4	5825-532	$380.00
8x4	5825-585	606.00
8x6	5825-627	606.00
12x4	5825-628	2072.00
12x8	5825-660	2072.00
12x10	5825-673	2167.00

Backing Rings PP



Size (in.)	Part #	Price
1/2	5046-005	22.00
3/4	5046-007	25.50
1	5046-010	33.50
1 1/4	5046-012	40.00
1 1/2	5046-015	42.00
2	5046-020	50.00
3	5046-030	67.00
4	5046-040	86.00
6	5046-060	182.00
8	5046-080	262.00
10	5046-100	339.00
12	5046-120	524.00

Male Adapter Nickel Coated Brass Inserts



Size (in.)	Part #	Price
1/2	9511-005	$41.00
3/4	9511-007	$46.00
1	9511-010	$78.00
1 1/4	9511-012	$102.00
1 1/2	9511-015	$150.00
2	9511-020	$205.00

Stub End socket



Size (in.)	Part #	Price
1/2	9508-005	$12.00
3/4	9508-007	$16.00
1	9508-010	$20.00
1 1/4	9508-012	$25.00
1 1/2	9508-015	$30.00
2	9508-020	$40.00
3	9508-030	$95.00
4	9508-040	$141.00

Stub End Elongated Butt Fusion Black



Size (in.)	Part #	Price
6	5832-060	$112.00
8	5832-080	180.00
10	5832-100	320.00
12	5832-120	440.00

Backing Rings DI

Size (in.)	Part #	Price
2	5048-020	43.50
3	5048-030	51.00
4	5048-040	63.00
6	5048-060	73.00
8	5048-080	84.00
10	5048-100	118.00
12	5048-120	167.00

Female Adapter Nickel Coated Brass Inserts



Size (in.)	Part #	Price
1/2	9512-005	$31.00
3/4	9512-007	$33.00
1	9512-010	$46.00
1 1/4	9512-012	$87.00
1 1/2	9512-015	$147.00
2	9512-020	$198.00

Ball Valve - Fpm socket



Size (in.)	Part #	Price
1/2	9516-005	$185.00
3/4	9516-007	$190.00
1	9516-010	$220.00
1 1/4	9516-012	$323.00
1 1/2	9516-015	$407.00
2	9516-020	$524.00

ALSCO™ IPEX Duraplus® Air Line System

Compressed Air ABS Piping System

Air Piping System



Color: Blue

Warning: Certain compressor and lubricant oils will damage your Duraplus® Air-line installation. Before using any oils in the system contact our sales office to obtain a list of recommended oils or to confirm individual oil suitability.

The Air-Line System

Air-Line is a thermoplastic socket piping system for conveying compressed air. Its lightness in weight and ease of installation results overall cost savings, while its inherent corrosion resistance makes it the ideal choice for clean air applications.

Benefits

- Manufactured for conveying compressed air
- Color coated in light blue for color coding
- Leak free and energy saving
- Maintenance free
- Light weight
- Non-toxic
- No rust, inside or out
- Easy installation, Socket
- Keeps air clean

Ratings

- 1/2" - 4" pipe and fitting rated 185 psi at 73°F
- 1/2" - 4" metric sized and blue in color
- 6" & 8" rated 180 psi and 145 psi respectively
- 6" & 8" are IPS sized and grey in color

Safety Factors

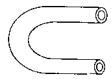
Air-Line has two built-in safety factors in sizes 1/2" to 4":

1. It has a highly visible, light blue coloring complying with international standards for compressed air piping.
2. Manufactured to metric standards and is dimensionally incompatible with IPS sized rigid materials. IPS sized rigid piping is dangerous and cannot be introduced into the system.

Pipe

Size IPS	Size Metric	Part #	Price Per Ft.
1/2	20	5471-005	$ 2.24
3/4	25	5471-007	3.28
1	32	5471-010	4.90
1 1/2	50	5471-015	9.29
2	63	5471-020	14.38
3	90	5471-030	29.12
4	110	5471-040	47.72
6	-	5471-060	53.62
8	-	5471-080	70.22

Dropper Bend Sp



Size In.	Size mm	Part #	Price $
1/2	20	5476-005	42.71
3/4	25	5476-007	44.88
1	32	5476-010	58.38
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

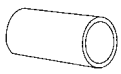
Cobra Pipe Clip



Size In.	Size mm	Part #	Price $
1/2	20	5481-005	2.41
3/4	25	5481-007	2.69
1	32	5481-010	3.79
1 1/2	50	5481-015	4.36
2	63	5481-020	5.97
3	90	5481-030	11.77
4	110	5481-040	20.85
-	-	-	-
-	-	-	-

Note: 1/2" and 3/4": pipe clips are supplied without retaining bands.

Coupling



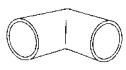
Size In.	Size mm	Part #	Price $
1/2	20	5472-005	7.25
3/4	25	5472-007	7.62
1	32	5472-010	10.42
1 1/2	50	5472-015	19.21
2	63	5472-020	27.46
3	90	5472-030	77.16
4	110	5472-040	112.11
6	-	5472-060	147.66
8	-	5472-080	315.76

45° Elbow



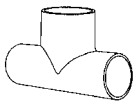
Size In.	Size mm	Part #	Price $
1/2	20	5477-005	16.48
3/4	25	5477-007	17.79
1	32	5477-010	23.92
1 1/2	50	5477-015	37.31
2	63	5477-020	58.26
3	90	5477-030	110.51
4	110	5477-040	186.31
6	-	5477-060	284.42
8	-	5477-080	529.78

90° Elbow



Size In.	Size mm	Part #	Price $
1/2	20	5485-005	10.10
3/4	25	5485-007	12.27
1	32	5485-010	16.30
1 1/2	50	5485-015	36.63
2	63	5485-020	51.56
3	90	5485-030	134.62
4	110	5485-040	157.86
6	-	5485-060	324.37
8	-	5485-080	545.40

Tee



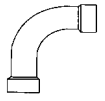
Size In.	Size mm	Part #	Price $
1/2	20	5473-005	12.09
3/4	25	5473-007	15.06
1	32	5473-010	22.37
1 1/2	50	5473-015	45.92
2	63	5473-020	69.79
3	90	5473-030	142.98
4	110	5473-040	208.50
6	-	5473-060	364.28
8	-	5473-080	621.76

Cap



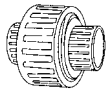
Size In.	Size mm	Part #	Price $
1/2	20	5478-005	6.94
3/4	25	5478-007	7.31
1	32	5478-010	15.55
1 1/2	50	5478-015	26.83
2	63	5478-020	33.84
3	90	5478-030	95.14
4	110	5478-040	127.11
6	-	-	-
8	-	-	-

90° Bend



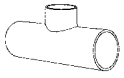
Size In.	Size mm	Part #	Price $
1/2	-	-	-
3/4	25	5483-007	21.94
1	32	5483-010	31.30
1 1/2	50	5483-015	53.92
2	63	5483-020	96.74
3	90	5483-030	285.72
4	110	5483-040	379.24
6	-	-	-
8	-	-	-

Socket Union



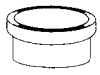
Size In.	Size mm	Part #	Price $
1/2	20	5474-005	32.84
3/4	25	5474-007	37.31
1	32	5474-010	48.60
1 1/2	50	5474-015	89.00
2	63	5474-020	117.33
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Red. Tee



Size In.	Size mm	Part #	Price $
3/4 x 1/2	25x20	5473-101	15.06
1 x 1/2	32x20	5473-130	22.37
1 x 3/4	32x25	5473-131	22.37
1 1/2 x 1/2	50x20	5473-209	45.92
1 1/2 x 3/4	50x25	5473-210	45.92
1 1/2 x 1	50x32	5473-211	45.92
2 x 3/4	63x25	5473-248	69.79
2 x 1	63x32	5473-249	69.79
2 x 1 1/2	63x50	5473-251	69.79

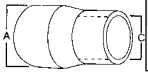
Flange Stub



Size In.	Size mm	Part #	Price $
1	32	5486-010	26.96
1 1/2	50	5486-015	35.52
2	63	5486-020	57.89
3	90	5486-030	102.14
4	110	5486-040	144.10
6	-	5486-060	175.57
8	-	5486-080	234.01

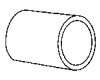
Note: A metal backing ring must be used with this flange.

Reducer Coupling



A - C In.	A - C mm	Part #	Price $
1 x 1/2	32x20	5472-130	16.85
1 1/2 x 1	50x32	5472-211	44.44
3 x 2	90x63	5472-338	96.13
8 x 6	-	5472-585	368.81

Reducer Bushing



Size In	Size mm	Part #	Price $
3/4 x 1/2	25x20	5475-101	7.88
1 x 3/4	32x25	5475-131	10.79
1 1/2 x 1/2	50x20	5475-209	17.17
1 1/2 x 3/4	50x25	5475-210	17.17
1 1/2 x 1	50x32	5475-211	17.17
2 x 3/4	63x25	5475-248	23.92
2 x 1	63x32	5475-249	23.92
2 x 1 1/2	63x50	5475-251	23.92
3 x 1 1/2	90x50	5475-337	62.05
3 x 2	90x63	5475-338	62.05
4 x 2	110x63	5475-420	91.73
4 x 3	110x90	5475-422	91.73
8 x 6	-	5475-585	264.66

Gasket (flat neoprene)



Size In.	Size mm	Part #	Price $
1	32	5479-010	4.96
1 1/2	50	5479-015	5.76
2	63	5479-020	6.94
3	90	5479-030	10.10
4	110	5479-040	13.33
6	-	5479-060	14.92
8	-	5479-080	29.51

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ALSCO™ IPEX Duraplus® Air Line System

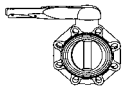
Compressed Air ABS Piping System

Plug NPT Thread



Size In.	Size mm	Part #	Price $
1/2	-	5487-005	9.18
3/4	-	5487-007	10.79

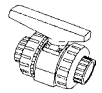
Butterfly Valve Type CD Fpm



Size In.	Size mm	Part #	Price $
2	63	5493-020	248.58
2 1/2	75	-	-
3	90	5493-030	343.32
4	110	5493-040	358.70
6	-	5493-060	793.14
8	-	5493-080	958.82

True Union Ball Valve

Socket 230 psi @73° F Fpm



Size In.	Size mm	Part #	Price $
1/2	20	5496-005	93.59
3/4	25	5496-007	108.96
1	32	5496-010	136.72
1 1/2	50	5496-015	264.52
2	63	5496-020	426.16

Wall Bracket

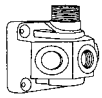
Soc x Fpt (Brass Body)



Size In	Size mm	Part #	Price $
1/2 x 1/2	20x1/2	5491-005	81.63
3/4 x 1/2	25x1/2	5491-006	83.98
3/4 x 3/4	25x3/4	5491-007	85.78

Wall Bracket

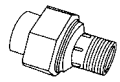
Multiport



Size In	Size mm	Part #	Price $
Inlet- 3/4 mpt	25x1/2	5492-006	137.28
Outlet- 1/2" fpt	-		-
	-		-

Composite Union

Soc x Mpt (Air to Brass)



Size In.	Size mm	Part #	Price $
1/2 x 1/2	20x1/2	5495-005	47.84
3/4 x 3/4	25x3/4	5495-007	55.63
1 x 1	32x1	5495-010	67.92
1 1/2 x 1 1/2	50x1 1/2	5495-015	119.68
2 x 2	63x2	5495-020	190.40

Backing Ring

(Galv. M.S., ASA 150)



Size In.	Size mm	Part #	Price $
1	32	5484-010	31.61
1 1/2	50	5484-015	30.66
2	63	5484-020	37.09
3	90	5484-030	55.58
4	110	5484-040	65.45
6	-	5484-060	103.34
8	-	5484-080	149.27

Flange-Blind

(gray ABS, ASA 150)



Size In.	Size mm	Part #	Price $
1	-	-	-
1 1/2	-	-	-
2	-	-	-
3	90	5488-030	121.71
4	110	5488-040	165.52
6	-	5488-060	297.44
8	-	5488-080	429.20

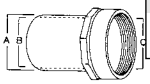
Note: A backing ring must be used with this flange.

Female Adapter Soc x Fpt



A - C In.	A - C mm	Part #	Price $
1/2 x 1/2	20x1/2	5489-005	25.23
3/4 x 3/4	25x3/4	5489-007	28.75
1 x 1	32x1	5489-010	34.83
-	-	-	-

Female Adapter Sp x Fpt



A - C In.	A - C mm	Part #	Price $
-	50x40x1 1/2	5490-015	63.83
-	63x50x2	5490-020	74.69
-	-	-	-
-	-	-	-

Air-Line Solvent Cement



Size	Size mm	Part #	Price $
1 pint	-	5498-PT	32.91
1 quart	-	5498-QT	54.66

MEK Cleaner



Size	Size mm	Part #	Price $
1 pint	-	5499-PT	15.50
1 quart	-	5499-QT	27.27

An indication of the number of joints likely to be made per quart of Duraplus® cement is as follows (it is recommended that MEK Cleaner order equals one-half the quantity of solvent cement required).

Size: mm	20 - 32	50 - 63	75 - 90	110	-	-
Size: inches	-	-	-	-	6”	8”
Joints:	290	144	48	32	16	10

Warning: Certain compressor and lubricant oils will damage your Duraplus® Air-line installation.

Before using any oils in the system contact our sales office to obtain a list of recommended oils or to confirm individual oil suitability.



MINI FILTERS

Size	AUTOMATIC DRAIN Part #	AUTOMATIC DRAIN Price $	MANUAL DRAIN Part #	MANUAL DRAIN Price
1/8"	1430	79.40	1431	$ 68.10
1/4"	1432	77.55	1433	66.50

Designed for use where performance is required in a min. space. Transparent bowls, 5-micron element standard.



MINI REGULATORS

Size	WITH GAUGE Part #	WITH GAUGE Price $	WITHOUT GAUGE Part #	WITHOUT GAUGE Price
1/8"	1434	68.50	1435	$ 51.60
1/4"	1436	68.05	1437	51.15

Relieving Type Standard models adjustable 3-100 PSIG. Compact unit gives reliable regulation at flows up to 15 scfm at 100 PSIG.



MINI FILTER / Air REGULATORS

Size	AUTOMATIC Part #	AUTOMATIC Price $	MANUAL Part #	MANUAL Price
1/8"	1438	145.00	1439	$ 128.95
1/4"	1440	139.45	1441	127.50

Space-saving filter/regulator offering two functions in one unit. Standard model: 2-100 PSIG adjustable range, relieving type diaphragm, transparent bowl (guard not available), 5-micron filter element, gauge, non-rising adjustment with easily sealed lock ring to resist tampering. ONE OUNCE RESERVOIR.



MINI COMBINATION (Filter, Air Regulator, Lubricator)

Size	AUTOMATIC DRAIN Part #	AUTOMATIC DRAIN Price $	MANUAL DRAIN Part #	MANUAL DRAIN Price
1/8"	1442	298.20	1443	$ 286.90
1/4"	1444	293.50	1445	282.45

3

ALSCO™ Natural Polypropylene - Sch. 80



Unpigmented for high purity applications

- Deionized, distilled and demineralized water systems
- Clean chemical processes
- Pharmaceutical operations
- Food processing

Excellent chemical resistance

- Alkalies • Salts • Solvents
- Most acids • Variety of oils

Product & design criteria

- 1/2" - 4" Made in U.S.A.
- Chemtrol's heavy duty industrial pressure system
- Socket fused
- Temperature range 0° - 180°F
- Conforms to USDA and FDA

Cost savings

- Lightweight plastic vs metal
- Easy installation • Low cost



Natural Polypropylene (CHEM-PURE™) - Schedule 80

Size In.	mm	Part #	Price Per Ft.	Wt./ Per Ft.	Max. W.P. @ 73.4 °F	O.D. (In.)	Min. Wall Thick.(In.)
1/2	12.7	6200-005	$ 3.90	0.132	410	.840	.147
3/4	19.05	6200-007	4.85	0.179	330	1.050	.154
1	25.4	6200-010	7.15	0.263	310	1.315	.179
1 1/2	38.1	6200-015	9.27	0.411	230	1.900	.200
2	50.8	6200-020	11.94	0.611	200	2.375	.218
3	76.2	6200-030	22.65	1.248	185	3.500	.300
4	101.6	6200-040	32.24	1.824	160	4.500	.337



Natural 90° Ell socket

Size (in.)	Part #	Price
1/2	7806-005	17.99
3/4	7806-007	22.52
1	7806-010	24.78
-	-	-
1 1/2	7806-015	40.54
2	7806-020	52.04
3	7806-030	164.20
4	7806-040	240.50



Natural 90° Ell threaded

Size (in.)	Part #	Price
1/2	7808-005	17.95
3/4	7808-007	21.81
1	7808-010	26.87
1 1/4	7808-012	31.78
1 1/2	7808-015	36.34
2	7808-020	49.39
3	7808-030	174.60
4	7808-040	245.60



Natural 45° Ell socket

Size (in.)	Part #	Price
1/2	7817-005	22.08
3/4	7817-007	25.83
1	7817-010	33.63
-	-	-
1 1/2	7817-015	44.71
2	7817-020	48.40
3	7817-030	214.50
4	7817-040	345.10



Natural 45° Ell threaded

Size (in.)	Part #	Price
1/2	7819-005	22.43
3/4	7819-007	25.39
1	7819-010	26.80
1 1/4	7819-012	31.49
1 1/2	7819-015	36.34
2	7819-020	49.39
3	7819-030	218.50
4	7819-040	328.30



Natural Tee socket

Size (in.)	Part #	Price
1/2	7801-005	20.71
3/4	7801-007	23.04
1	7801-010	27.65
-	-	-
1 1/2	7801-015	41.25
2	7801-020	55.20
3	7801-030	265.10
4	7801-040	402.00



Natural Tee threaded

Size (in.)	Part #	Price
1/2	7805-005	22.00
3/4	7805-007	24.55
1	7805-010	29.04
1 1/4	7805-012	35.47
1 1/2	7805-015	42.95
2	7805-020	57.11
3	7805-030	286.90
4	7805-040	440.80



Natural Coupling socket

Size (in.)	Part #	Price
1/2	7829-005	19.73
3/4	7829-007	22.00
1	7829-010	23.66
-	-	-
1 1/2	7829-015	29.80
2	7829-020	46.55
3	7829-030	79.61
4	7829-040	161.70



Natural Coupling threaded

Size (in.)	Part #	Price
1/2	7830-005	17.05
3/4	7830-007	21.23
1	7830-010	23.42
1 1/4	7830-012	27.33
1 1/2	7830-015	30.67
2	7830-020	36.73
3	7830-030	81.48
4	7830-040	164.20



Natural Flange socket

Size (in.)	Part #	Price
1/2	7851-005	51.96
3/4	7851-007	54.61
1	7851-010	61.16
-	-	-
1 1/2	7851-015	82.09
2	7851-020	102.30
3	7851-030	244.30
4	7851-040	333.60



Natural Flange threaded

Size (in.)	Part #	Price
1/2	7852-005	50.38
3/4	7852-007	54.60
1	7852-010	61.16
1 1/4	7852-012	84.18
1 1/2	7852-015	85.83
2	7852-020	101.20
3	7852-030	243.00
4	7852-040	333.60



Natural Flange Blind

Size (in.)	Part #	Price
1/2	7853-005	84.28
3/4	7853-007	86.19
1	7853-010	92.26
-	-	-
1 1/2	7853-015	152.00
2	7853-020	166.50
3	7853-030	265.10
4	7853-040	331.00



Natural Female Adapter

Size (in.)	Part #	Price
1/2	7835-005	18.74
3/4	7835-007	28.79
1	7835-010	30.29
-	-	-
1 1/2	7835-015	34.47
2	7835-020	50.76
3	7835-030	91.79
4	7835-040	175.80

NOTE: All threaded fittings are recommended for intermittent drainage pressure not exceeding 20 psi.

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ALSCO™ Natural Polypropylene - Sch. 80



Natural Cap socket

Size (in.)	Part #	Price
1/2	7847-005	36.66
3/4	7847-007	38.74
1	7847-010	41.49
-	-	-
1 1/2	7847-015	45.58
2	7847-020	69.83
3	7847-030	139.70
4	7847-040	187.50



Natural Cap threaded

Size (in.)	Part #	Price
1/2	7848-005	16.13
3/4	7848-007	21.23
1	7848-010	23.42
1 1/4	7848-012	30.67
1 1/2	7848-015	32.60
2	7848-020	36.73
3	7848-030	97.10
4	7848-040	140.90



Natural Union socket

Size (in.)	Part #	Price
1/2	7897-005	71.19
3/4	7897-007	77.89
1	7897-010	111.20
-	-	-
1 1/2	7897-015	170.60
2	7897-020	209.50



Natural Union threaded

Size (in.)	Part #	Price
1/2	7898-005	77.55
3/4	7898-007	84.98
1	7898-010	104.50
1 1/4	7898-012	137.00
1 1/2	7898-015	159.20
2	7898-020	231.40



Natural Plug threaded

Size (in.)	Part #	Price
1/2	7850-005	19.56
3/4	7850-007	20.59
1	7850-010	22.84
1 1/4	7850-012	39.26
1 1/2	7850-015	46.50
2	7850-020	61.55
3	7850-030	81.96
4	7850-040	106.20



Natural Reducer Bushing Spig x Socket

Size (in.)	Part #	Price
3/4x1/2	7837-101	29.70
1x1/2	7837-130	35.22
1x3/4	7837-131	35.49
1 1/2x1	7837-211	62.95
2x1	7837-249	87.78
2x1 1/2	7837-251	87.78
3x2	7837-338	97.21
4x3	7837-422	146.20



Natural Reducer Bushing MPT x FPT

Size (in.)	Part #	Price
3/4x1/2	7839-101	26.39
1x1/2	7839-130	32.04
1x3/4	7839-131	32.04
1 1/4x3/4	7839-167	56.57
1 1/4x1	7839-168	56.57
1 1/2x1	7839-211	56.57
1 1/2x1 1/4	7839-212	56.57
2x1	7839-249	81.87
2x1 1/2	7839-251	81.87
3x2	7839-338	84.72
4x3	7839-422	130.60



Part #	Dia. x Length	Price
7861-077	1/2" x Close	2.65
7861-078	1/2" x Short	2.83
7861-081	1/2" X 3"	3.77
7861-082	1/2" X 4"	4.38
7861-083	1/2" X 5"	4.97
7861-084	1/2" X 6"	5.61

Natural PP Schedule 80 Nipples

Part #	Dia. x Length	Price
7861-104	3/4" x Close	3.59
7861-105	3/4" X Short	4.08
7861-106	3/4" X 3"	4.88
7861-107	3/4" X 4"	5.71
7861-108	3/4" X 5"	6.52
7861-109	3/4" X 6"	7.36



Part #	Dia. x Length	Price
7861-133	1" x Close	4.17
7861-134	1" X Short	4.73
7861-136	1" X 3"	5.85
7861-137	1" X 4"	6.94
7861-138	1" X 5"	8.05
7861-139	1" X 6"	9.14

Part #	Dia. x Length	Price
7861-213	1 1/2" x Close	7.55
7861-214	1 1/2" X Short	9.40
7861-215	1 1/2" X 3"	10.63
7861-216	1 1/2" X 4"	13.07
7861-217	1 1/2" X 5"	15.53
7861-218	1 1/2" X 6"	18.03

Part #	Dia. x Length	Price
7861-251	2" x Close	10.14
7861-252	2" X Short	11.83
7861-253	2" X 3"	13.52
7861-254	2" X 4"	16.84
7861-255	2" X 5"	20.17
7861-256	2" X 6"	23.55

NOTE: All threaded fittings are recommended for intermittent drainage pressure not exceeding 20 psi.



Socket Heat Face Sets		
Description	Part #	Price
1/2" Socket Heat Face Set	4820-005	$ 72.95
3/4" Socket Heat Face Set	4820-007	102.20
1" Socket Heat Face Set	4820-010	132.90
1 1/2" Socket Heat Face Set	4820-015	169.70
2" Socket Heat Face Set	4820-020	198.30
3" Socket Heat Face Set	4820-030	480.30
4" Socket Heat Face Set	4820-040	535.00
6" Socket Heat Face Set	4820-060	1723.00

The heat face set consists of a male and female component.
This is a matched set and cannot be ordered separately.

Chemtrol's Thermo-Fusion Socket Heating Times				
Size	PP		PVDF	
In (mm)	Time (sec)	Temp (°F)	Time (sec)	Temp (°F)
1/2" (20)	5	495-505	5	495-505
3/4" (25)	5	495-505	5	495-505
1" (32)	5	495-505	5	495-505
1 1/2" (50)	5	495-505	5	495-505
2" (63)	5	495-505	5	495-505
3" (90)	7 - 9	500-510	25 - 35	510-530
4" (110)	12 - 15	500-510	40 - 50	510-530
6"	15 - 20	500-520	50 - 60	540-560

Heating Times start after Pipe and Fitting are completely on Heater Faces.
Chemtrol recommends using a Fusion Machine for sizes 3" and larger.

ALSCO™ Black Polypropylene - Sch. 80



- Full range of IPS sizes in 1/2" through 6" in diameter.
- Rigid PP used in the manufacture of industrial piping components conform to requirements in ASTM D-4101.
- For maximum UV radiation protection, PP shall be pigmented jet black with a minimum 2.5% carbon black.
- Fitting components that utilize socket type heat fusion welded con-Nettions shall have socket lengths and wall thicknesses as required for Schedule 80 fittings in ASTM D-2467.
- Pipe shall have diameters and wall thicknesses in conformance with ASTM D-1785 Schedule 80 pipe. Fittings shall be industrial, heavy duty, hub style.

Black Polypropylene Schedule 80 Pipe

Pipe Size In.	Pipe Size mm	Part #	Price Per Ft.	Approx. Wt./ Per Ft.	Max. W.P. @ 73.4 °F	O.D. (In.)	Minimum Wall Thickness (In.)
1/2	12.7	6100-005	$ 3.97	0.132	410	.840	.147
3/4	19.05	6100-007	4.80	0.179	330	1.050	.154
1	25.4	6100-010	7.22	0.263	310	1.315	.179
1 1/4	31.75	6100-012	8.85	0.364	250	1.660	.191
1 1/2	38.1	6100-015	9.15	0.411	230	1.900	.200
2	50.8	6100-020	11.22	0.611	200	2.375	.218
3	76.2	6100-030	22.35	1.248	185	3.500	.300
4	101.6	6100-040	32.89	1.824	160	4.500	.337
6	152.4	6100-060	67.15	3.484	140	6.625	.432



Black 90° Ell socket

Size (in.)	Part #	Price
1/2	2806-005	16.08
3/4	2806-007	23.81
1	2806-010	26.18
1 1/2	2806-015	36.39
2	2806-020	44.33
3	2806-030	157.70
4	2806-040	222.30
6	2806-060	484.70



Black 90° Ell threaded

Size (in.)	Part #	Price
1/2	2808-005	16.57
3/4	2808-007	20.19
1	2808-010	24.84
1 1/4	2808-012	29.42
1 1/2	2808-015	33.62
2	2808-020	45.67
3	2808-030	161.70
4	2808-040	228.80



Black 45° Ell socket

Size (in.)	Part #	Price
1/2	2817-005	18.52
3/4	2817-007	27.08
1	2817-010	29.98
1 1/2	2817-015	34.70
2	2817-020	44.33
3	2817-030	197.90
4	2817-040	320.50
6	2817-060	486.10



Black 45° Ell threaded

Size (in.)	Part #	Price
1/2	2819-005	20.71
3/4	2819-007	23.47
1	2819-010	24.75
1 1/4	2819-012	29.14
1 1/2	2819-015	33.62
2	2819-020	45.67
3	2819-030	203.00
4	2819-040	328.30



Black Tee socket

Size (in.)	Part #	Price
1/2	2801-005	19.36
3/4	2801-007	23.30
1	2801-010	25.57
1 1/2	2801-015	38.21
2	2801-020	51.04
3	2801-030	249.50
4	2801-040	372.30
6	2801-060	885.00



Black Tee threaded

Size (in.)	Part #	Price
1/2	2805-005	20.37
3/4	2805-007	22.69
1	2805-010	26.87
1 1/4	2805-012	32.77
1 1/2	2805-015	39.77
2	2805-020	52.83
3	2805-030	263.70
4	2805-040	405.90



Black Coupling socket

Size (in.)	Part #	Price
1/2	2829-005	19.91
3/4	2829-007	22.24
1	2829-010	23.84
1 1/2	2829-015	25.72
2	2829-020	36.03
3	2829-030	73.65
4	2829-040	148.80
6	2829-060	212.00



Black Coupling threaded

Size (in.)	Part #	Price
1/2	2830-005	15.75
3/4	2830-007	19.63
1	2830-010	21.64
1 1/4	2830-012	25.26
1 1/2	2830-015	28.34
2	2830-020	33.95
3	2830-030	75.38
4	2830-040	153.90



Black Flange socket

Size (in.)	Part #	Price
1/2	2851-005	46.35
3/4	2851-007	48.28
1	2851-010	54.18
1 1/2	2851-015	67.17
2	2851-020	90.60
3	2851-030	221.20
4	2851-040	303.80
6	2851-060	396.80



Black Flange threaded

Size (in.)	Part #	Price
1/2	2852-005	45.58
3/4	2852-007	49.42
1	2852-010	55.44
1 1/4	2852-012	76.15
1 1/2	2852-015	77.67
2	2852-020	91.70
3	2852-030	224.90
4	2852-040	311.60



Black Flange Blind

Size (in.)	Part #	Price
1/2	2853-005	74.51
3/4	2853-007	76.26
1	2853-010	81.67
1 1/4	2853-012	121.10
1 1/2	2853-015	134.50
2	2853-020	148.80
3	2853-030	240.50
4	2853-040	294.80
6	2853-060	480.90



Black Female Adapter

Size (in.)	Part #	Price
1/2	2835-005	17.37
3/4	2835-007	26.72
1	2835-010	28.02
-	-	-
1 1/2	2835-015	31.88
2	2835-020	46.94
3	2835-030	84.98
4	2835-040	162.90

NOTE: All threaded fittings: Recommended for intermittent drainage pressure not exceeding 20 psi.

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ALSCO™ Black Polypropylene - Sch. 80



Black Cap socket

Size (in.)	Part #	Price
1/2	2847-005	36.16
3/4	2847-007	38.16
1	2847-010	40.93
1 1/2	2847-015	44.71
2	2847-020	68.96
3	2847-030	126.10
4	2847-040	173.20
6	2847-060	312.80



Black Cap threaded

Size (in.)	Part #	Price
1/2	2848-005	14.89
3/4	2848-007	19.63
1	2848-010	21.64
1 1/4	2848-012	28.34
1 1/2	2848-015	30.21
2	2848-020	33.95
3	2848-030	89.81
4	2848-040	130.60



Black Union socket

Size (in.)	Part #	Price
1/2	2897-005	70.27
3/4	2897-007	76.81
1	2897-010	109.60
-	-	-
1 1/2	2897-015	168.10
2	2897-020	254.70



Black Union threaded

Size (in.)	Part #	Price
1/2	2898-005	71.72
3/4	2898-007	78.60
1	2898-010	96.67
1 1/4	2898-012	126.90
1 1/2	2898-015	146.20
2	2898-020	212.00



Black Plug threaded

Size (in.)	Part #	Price
1/2	2850-005	18.04
3/4	2850-007	19.01
1	2850-010	21.11
1 1/4	2850-012	36.33
1 1/2	2850-015	42.99
2	2850-020	56.93
3	2850-030	75.80
4	2850-040	98.27



Black Reducer Bushing Spig x Socket

Size (in.)	Part #	Price
3/4x1/2	2837-101	29.30
1x1/2	2837-130	34.70
1x3/4	2837-131	35.03
1 1/2x1	2837-211	62.10
2x1	2837-249	85.70
2x1 1/2	2837-251	85.70
3x2	2837-338	95.88
4x3	2837-422	133.30
6x4	2837-532	279.20



Black Reducer Bushing MPT x FPT

Size (in.)	Part #	Price
3/4x1/2	2839-101	24.38
1x1/2	2839-130	29.67
1x3/4	2839-131	29.67
1 1/4x3/4	2839-167	52.27
1 1/4x1	2839-168	52.27
1 1/2x1	2839-211	52.27
1 1/2x1 1/4	2839-212	52.27
2x1	2839-249	75.71
2x1 1/2	2839-251	75.71
3x2	2839-338	78.39
4x3	2839-422	120.30

Part #	Dia. x Length	Price
2861-077	1/2" x Close	3.17
2861-078	1/2" x Short	3.44
2861-080	1/2" x 2"	4.01
2861-081	1/2" X 3"	4.75
2861-082	1/2" X 4"	5.49
2861-083	1/2" X 5"	6.27
2861-084	1/2" X 6"	7.16

Part #	Dia. x Length	Price
2861-104	3/4" x Close	4.44
2861-105	3/4" X Short	4.85
2861-106	3/4" X 3"	5.88
2861-107	3/4" X 4"	6.89
2861-108	3/4" X 5"	7.89
2861-109	3/4" X 6"	9.04

Part #	Dia. x Length	Price
2861-133	1" x Close	5.60
2861-134	1" X Short	6.16
2861-135	1" X 3"	7.66
2861-136	1" X 4"	8.92
2861-137	1" X 5"	10.29
2861-138	1" X 6"	11.62



Black PP Schedule 80 Nipples

Part #	Dia. x Length	Price
2861-170	1 1/4" x Close	6.43
2861-171	1 1/4" X Short	7.89
2861-172	1 1/4" X 3"	8.61
2861-173	1 1/4" X 4"	10.14
2861-174	1 1/4" X 5"	11.90
2861-175	1 1/4" X 6"	13.42

Part #	Dia. x Length	Price
2861-213	1 1/2" x Close	7.16
2861-214	1 1/2" X Short	8.30
2861-215	1 1/2" X 3"	9.22
2861-216	1 1/2" X 4"	10.86
2861-217	1 1/2" X 5"	12.80
2861-218	1 1/2" X 6"	14.51



Part #	Dia. x Length	Price
2861-251	2" x Close	9.63
2861-252	2" X Short	10.59
2861-253	2" X 3"	11.90
2861-254	2" X 4"	14.21
2861-255	2" X 5"	16.16
2861-256	2" X 6"	18.66

Part #	Dia. x Length	Price
2861-338	3" x Close	22.04
2861-340	3" X Short	26.60
2861-341	3" X 4"	26.60
2861-342	3" X 5"	33.60
2861-343	3" X 6"	38.58

Part #	Dia. x Length	Price
2861-422	4" x Close	30.02
2861-423	4" X Short	37.10
2861-425	4" X 5"	45.13
2861-426	4" X 6"	53.13

NOTE: All threaded fittings are recommended for intermittent drainage pressure not exceeding 20 psi.

Socket Heat Face Sets		
Description	Part #	Price
1/2" Socket Heat Face Set	4820-005	$ 72.95
3/4" Socket Heat Face Set	4820-007	102.20
1" Socket Heat Face Set	4820-010	132.90
1 1/2" Socket Heat Face Set	4820-015	169.70
2" Socket Heat Face Set	4820-020	198.30
3" Socket Heat Face Set	4820-030	480.30
4" Socket Heat Face Set	4820-040	535.00
6" Socket Heat Face Set	4820-060	1723.00

The heat face set consists of a male and female component. This is a matched set and cannot be ordered separately.

Chemtrol's Thermo-Fusion Socket Heating Times				
Size	PP		PVDF	
In (mm)	Time (sec)	Temp (°F)	Time (sec)	Temp (°F)
1/2" (20)	5	495-505	5	495-505
3/4" (25)	5	495-505	5	495-505
1" (32)	5	495-505	5	495-505
1 1/2" (50)	5	495-505	5	495-505
2" (63)	5	495-505	5	495-505
3" (90)	7 - 9	500-510	25 - 35	510-530
4" (110)	12 - 15	500-510	40 - 50	510-530
6"	15 - 20	500-520	50 - 60	540-560

Heating Times start after Pipe and Fitting are completely on Heater Faces. Chemtrol recommends using a Fusion Machine for sizes 3" and larger.

SYGEF® Standard PVDF

SYGEF® Standard PVDF Pipe and IR Plus/BCF Plus Fusion Fittings



SYGEF® Standard PVDF is an excellent piping system solution for demanding chemical and water applications, even at elevated temperatures.

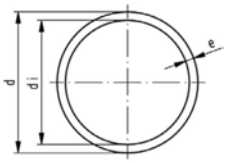
For the industrial water and chemical market, SYGEF® Standard PVDF provides a premier piping system solution because of its purity characteristics, chemical resistance and extensive product and fusion offerings.

Advantages:
- Excellent chemical resistance
- Widely used in chemical distribution systems
- Delivery of PW and DI water
- Disinfection by ozone, UV and chemicals is possible
- Steam sterilizable up to 284°F
- Free of additives, pigments or stabilizers
- Physiologically inert system
- No reaction with fluids or ingredients in the piping system
- Neither rouging nor corrosion risk

Technical Data:
- Size Range: d20 - d315 mm (1/2" - 12")
- Pressure Rating: d20 - d110 mm: PN16 (232 PSI), d160 - d315 mm: PN10 (150 PSI)
- Operating Temperature: -20°C - 140°C (-4°F - 284°F)
- Joining Technology: Socket Fusion: d20 - d110 mm, BCF Plus Fusion: d20 - d110 mm, IR Plus Fusion: d20 - d315 mm
- Standard Ratings: ASME BPE, FDA CFR 21 177.1520, USP 25 Class VI, FM4910, UL 723, ASTM E84
- Material: Polyvinylidene Fluoride (PVDF)

Fields of Application:
- Pharmaceutical Grade DI Water
- Chemical applications within the Chemical Processing Industry (CPI)
- Acid Distribution
- UPW and HUPW (Hot) Ultrapure Water return loops in microelectronics
- Life Science applications for sanitization with ozone, steam, or hot water

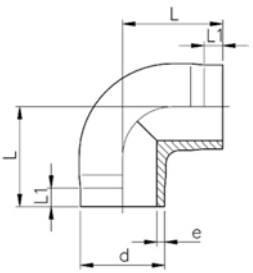




SYGEF® Standard PVDF Pipe, PN 16 and PN 10 - 5 Meters

Size (mm)	Closest Inch	PN	FM	d (mm)	di (mm)	e (mm)	lbs per meter	Mfg Part #	Price $
20	1/2	16	BCF, IR	20	16.2	1.9	0.463	175484203	50.96
25	3/4	16	BCF, IR	25	21.2	1.9	0.593	175484204	65.48
32	1	16	BCF, IR	32	27.2	2.4	0.959	175484205	100.64
40	1 1/4	16	BCF, IR	40	35.2	2.4	1.241	175484206	132.47
50	1 1/2	16	BCF, IR	50	44.0	3.0	1.874	175484207	200.85
63	2	16	BCF, IR	63	57.0	3.0	2.403	175484208	258.54
75	2 1/2	16	BCF, IR	75	67.8	3.6	3.417	175484209	363.23
90	3	16	BCF, IR	90	81.4	4.3	4.916	175480210	521.34
110	4	16	BCF, IR	110	99.4	5.3	7.341	175480211	790.56
160	6	10	IR	160	150.2	4.9	10.009	175480668	1101.43
200	8	10	IR	200	187.6	6.2	15.851	175480669	1648.41
225	9	10	IR	225	211.2	6.9	19.731	175480670	2183.64
250	10	10	IR	250	234.6	7.7	24.471	175480671	2623.79
315	12	10	IR	315	295.6	9.7	38.801	175480674	4164.31





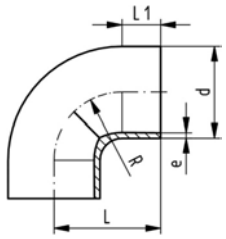
90° Elbow Short Radius, PN 16

Size (mm)	Closest Inch	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	38	25	0.049	735108606	14.64
25	3/4	BCF, IR	25	1.9	42	26	0.066	735108607	18.27
32	1	BCF, IR	32	2.4	46	26	0.108	735108608	33.97
40	1 1/4	BCF, IR	40	2.4	51	28	0.152	735108609	52.13
50	1 1/2	BCF, IR	50	3.0	58	28	0.262	735108610	76.38
63	2	BCF, IR	63	3.0	66	28	0.437	735108611	132.47

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SYGEF® Standard PVDF IR Plus/BCF Plus Fusion Fittings

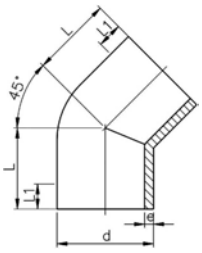




90° Elbow Sweep Radius, PN 16 and PN 10

Size (mm)	Closest Inch	PN	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	R (mm)	Weight (lb)	Mfg Part #	Price $
75	2 1/2	16	BCF, IR	75	3.6	75	23	62	0.628	735018712	223.06
90	3	16	BCF, IR	90	4.3	90	23	77	0.990	735018713	334.49
110	4	16	BCF, IR	110	5.3	110	23	98	1.623	735018714	610.87
160	6	10	IR	160	4.9	160	33	141	3.832	735018517	1057.64
200	8	10	IR	200	6.2	200	33	181	6.019	735018519	1401.64
225	9	10	IR	225	6.9	220	33	200	9.026	735018520	1703.97

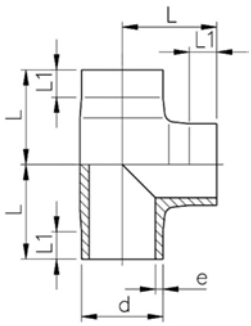




45° Elbow, PN 16 and PN 10

Size (mm)	Closest Inch	PN	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	16	BCF, IR	20	1.9	32	25	0.042	735158606	19.44
25	3/4	16	BCF, IR	25	1.9	34	26	0.055	735158607	23.07
32	1	16	BCF, IR	32	2.4	36	26	0.084	735158608	25.54
40	1 1/4	16	BCF, IR	40	2.4	39	28	0.119	735158609	49.78
50	1 1/2	16	BCF, IR	50	3.0	42	30	0.185	735158610	61.86
63	2	16	BCF, IR	63	3.0	47	31	0.267	735158611	89.74
75	2 1/2	16	BCF, IR	75	3.6	49	32	0.353	735158612	191.23
90	3	16	BCF, IR	90	4.3	57	37	0.648	735158613	286.31
110	4	16	BCF, IR	110	5.3	70	46	1.058	735158614	503.18
160	6	10	IR	160	4.9	100	62	2.183	735158517	918.75
200	8	10	IR	200	6.2	124	77	4.542	735158519	1133.48
225	9	10	IR	225	6.9	140	88	6.444	735158520	1444.37

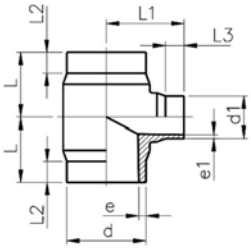




Tee, PN 16 and PN 10

Size (mm)	Closest Inch	PN	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	16	BCF, IR	20	1.9	38	25	0.062	735208606	23.07
25	3/4	16	BCF, IR	25	1.9	42	27	0.088	735208607	26.71
32	1	16	BCF, IR	32	2.4	46	27	0.143	735208608	42.52
40	1 1/4	16	BCF, IR	40	2.4	51	28	0.209	735208609	63.03
50	1 1/2	16	BCF, IR	50	3.0	58	28	0.344	735208610	99.46
63	2	16	BCF, IR	63	3.0	66	28	0.595	735208611	157.04
75	2 1/2	16	BCF, IR	75	3.6	75	32	0.802	735208612	278.84
90	3	16	BCF, IR	90	4.3	90	39	1.385	735208613	423.05
110	4	16	BCF, IR	110	5.3	110	48	2.474	735208614	573.69
160	6	10	IR	160	4.9	160	71	5.258	735208517	1116.39
200	8	10	IR	200	6.2	200	80	9.473	735208519	1487.10
225	9	10	IR	225	6.9	220	86	15.212	735208520	1921.91



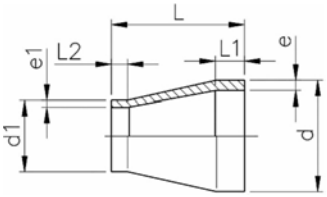


Reducer Tee, PN 10

Size d x d1 (mm)	Closest Inch	FM	e (mm)	e1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Weight (lb)	Mfg Part #	Price $
160 x 90	6 x 3	IR	4.9	4.3	155	130	60	25	5.071	735208562	1085.41
160 x 110	6 x 4	IR	4.9	5.3	155	130	60	25	5.071	735208561	1085.41
225 x 90	9 x 3	IR	6.9	4.3	155	160	60	25	9.700	735208570	1755.25
225 x 110	9 x 4	IR	6.9	5.3	155	160	60	25	9.449	735208569	1755.25

SYGEF® Standard PVDF IR Plus/BCF Plus Fusion Fittings

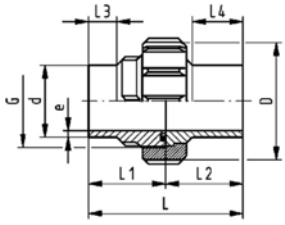




Reducer, PN 16 and PN 10

Size d x d1 (mm)	Closest Inch	FM	PN	e (mm)	e1 (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
25 x 20	3/4 x 1/2	BCF, IR	16	1.9	1.9	50	22	22	0.037	735908637	16.99
32 x 20	1 x 1/2	BCF, IR	16	2.4	1.9	50	22	22	0.049	735908642	24.25
32 x 25	1 x 3/4	BCF, IR	16	2.4	1.9	50	22	22	0.053	735908641	24.25
40 x 20	1 1/4 x 1/2	BCF, IR	16	2.4	1.9	58	22	24	0.066	735908648	30.34
40 x 25	1 1/4 x 3/4	BCF, IR	16	2.4	1.9	55	22	24	0.066	735908647	30.34
40 x 32	1 1/4 x 1	BCF, IR	16	2.4	2.4	55	22	24	0.075	735908646	31.52
50 x 25	1 1/2 x 3/4	BCF, IR	16	3.0	1.9	60	22	25	0.101	735908654	36.43
50 x 32	1 1/2 x 1	BCF, IR	16	3.0	2.4	60	22	25	0.110	735908653	36.43
50 x 40	1 1/2 x 1 1/4	BCF, IR	16	3.0	2.4	60	22	25	0.088	735908652	36.43
63 x 32	2 x 1	BCF, IR	16	3.0	2.4	65	22	25	0.146	735908660	49.78
63 x 40	2 x 1 1/4	BCF, IR	16	3.0	2.4	65	22	25	0.172	735908659	49.78
63 x 50	2 x 1 1/2	BCF, IR	16	3.0	3.0	65	22	25	0.168	735908658	49.78
75 x 40	2 1/2 x 1 1/4	BCF, IR	16	3.6	2.4	68	24	25	0.214	735908666	95.82
75 x 50	2 1/2 x 1 1/2	BCF, IR	16	3.6	3.0	65	24	25	0.220	735908665	95.82
75 x 63	2 1/2 x 2	BCF, IR	16	3.6	3.0	65	24	25	0.176	735908664	95.82
90 x 63	3 x 2	BCF, IR	16	4.3	3.0	75	25	30	0.331	735908671	113.24
90 x 75	3 x 2 1/2	BCF, IR	16	4.3	3.6	75	25	35	0.362	735908670	113.24
110 x 63	4 x 2	BCF, IR	16	5.3	3.0	90	30	30	0.567	735908678	164.53
110 x 75	4 x 2 1/2	BCF, IR	16	5.3	3.6	90	30	35	0.470	735908677	164.53
110 x 90	4 x 3	BCF, IR	16	5.3	4.3	90	30	35	0.622	735908676	164.53
160 x 110	6 x 4	IR	10	4.9	5.3	120	40	40	1.263	735908590	476.47
200 x 160	8 x 6	IR	10	6.2	4.9	145	50	40	1.830	735908592	459.38
225 x 110	9 x 4	IR	10	6.9	5.3	160	55	35	2.072	735908595	598.26
225 x 160	9 x 6	IR	10	6.9	4.9	160	55	40	2.513	735908596	598.26
225 x 200	9 x 8	IR	10	6.9	6.2	160	55	50	2.646	735908597	598.26

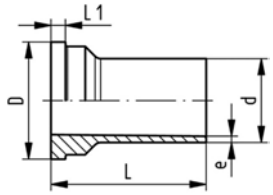




Union (FPM Black), PN 16

Size (mm)	Closest Inch	FM	d (mm)	D (mm)	G (R/Rp BS Thread) (in.)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	43	1	1.9	106	53	53	25	37	0.163	735528606	47.33
25	3/4	BCF, IR	25	53	1 1/4	1.9	112	56	56	25	38	0.243	735528607	59.40
32	1	BCF, IR	32	60	1 1/2	2.4	118	59	59	25	40	0.337	735528608	76.38
40	1 1/4	BCF, IR	40	74	2	2.4	124	62	62	25	41	0.485	735528609	112.18
50	1 1/2	BCF, IR	50	82	2 1/4	3.0	130	65	65	25	43	0.646	735528610	147.43
63	2	BCF, IR	63	100	2 3/4	3.0	136	68	68	25	44	0.990	735528611	222.21
75	2 1/2	BCF, IR	75	133	S107.5 X 3.6	3.6	132	66	66	24	34	1.631	735528612	371.77
90	3	BCF, IR	90	133	S107.5 X 3.6	4.3	130	65	65	24	48	1.704	735528613	501.04
110	4	BCF, IR	110	155	S127.5 X 3.6	5.3	130	65	65	25	45	2.324	735528614	661.29





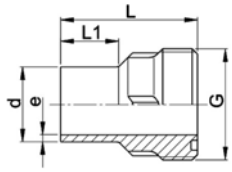
Union End, PN 16

Size (mm)	Closest Inch	FM	d (mm)	e (mm)	D (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	30	53	5	0.044	735608606	22.00
25	3/4	BCF, IR	25	1.9	39	56	5	0.066	735608607	25.00
32	1	BCF, IR	32	2.4	45	59	6	0.097	735608608	32.00
40	1 1/4	BCF, IR	40	2.4	57	62	6	0.152	735608609	37.00
50	1 1/2	BCF, IR	50	3.0	63	65	7	0.181	735608610	42.00
63	2	BCF, IR	63	3.0	78	68	8	0.280	735608611	62.00
75	2 1/2	BCF, IR	75	3.6	101	66	9	0.461	735608612	115.00
90	3	BCF, IR	90	4.3	101	65	9	0.412	735608613	136.74
110	4	BCF, IR	110	5.3	121	65	10	0.580	735608614	202.98

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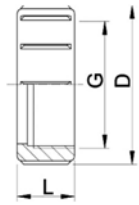




Union Bushing, PN 16

Size (mm)	Closest Inch	FM	d (mm)	G (R/Rp BS Thread) (in.)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1	1.9	53	25	0.055	735648606	30.34
25	3/4	BCF, IR	25	1 1/4	1.9	56	25	0.086	735648607	36.43
32	1	BCF, IR	32	1 1/2	2.4	59	25	0.121	735648608	42.52
40	1 1/4	BCF, IR	40	2	2.4	62	25	0.179	735648609	55.76
50	1 1/2	BCF, IR	50	2 1/4	3.0	65	25	0.243	735648610	72.75
63	2	BCF, IR	63	2 3/4	3.0	68	25	0.348	735648611	118.59
75	2 1/2	BCF, IR	75	S107.5 X 3.6	3.6	66	24	0.611	735648612	206.19
90	3	BCF, IR	90	S107.5 X 3.6	4.3	65	24	0.606	735648613	217.94
110	4	BCF, IR	110	S127.5 X 3.6	5.3	65	25	0.756	735648614	239.30

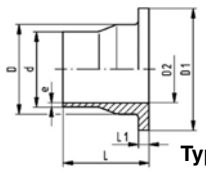




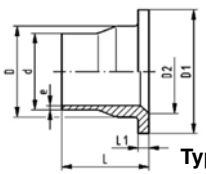
Union Nut, PN 16

Socket Fusion d (mm)	Butt Fusion d (mm)	G (R/Rp BS Thread) (in.)	D (mm)	L (mm)	Weight (lb)	Mfg Part #	Price $
16	16	3/4	35	21	0.024	735690405	25.00
20	20	1	48	22	0.046	735690406	29.00
25	25	1 1/4	53	24	0.066	735690407	36.00
32	32	1 1/2	60	26	0.077	735690408	46.00
40	40	2	74	29	0.143	735690409	66.00
50	50	2 1/4	82	33	0.205	735690410	98.00
63	63	2 3/4	100	35	0.317	735690411	153.00





Type A



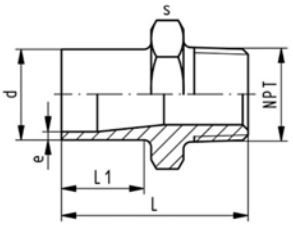
Type C

Flange Adaptor, PN 16 and PN 10, ANSI Serrated

Size (mm)	Closest Inch	Type	FM	PN	d (mm)	D (mm)	D1 (mm)	D2 (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	A	BCF, IR	16	20	26	45	15	1.9	54	6	0.064	735798806	9.72
25	3/4	A	BCF, IR	16	25	32	54	20	1.9	56	7	0.095	735798857	13.35
32	1	A	BCF, IR	16	32	40	63	26	2.4	58	7	0.139	735798858	13.35
40	1 1/4	A	BCF, IR	16	40	49	73	34	2.4	68	8	0.231	735798859	20.62
50	1 1/2	A	BCF, IR	16	50	60	82	43	3.0	69	8	0.309	735798860	24.25
63	2	A	BCF, IR	16	63	75	102	56	3.0	72	9	0.474	735798811	38.78
75	2 1/2	A	BCF, IR	16	75	89	122	66	3.6	80	10	0.717	735798812	95.82
90	3	A	BCF, IR	16	90	105	133	78	4.3	81	12	0.858	735798861	124.99
110	4	C	BCF, IR	16	110	125	158	100	5.3	81	13	1.263	735798814	222.21
160	6	C	IR	10	160	175	212	151	4.9	93	17	2.143	735798867	841.84
200	8	C	IR	10	200	232	268	207	6.2	102	22	3.708	735798869	1148.44
225	9	A	IR	10	225	235	268	207	6.9	102	22	3.719	735798870	1242.45

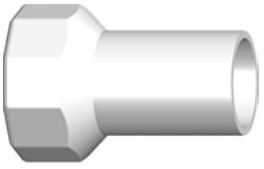
SYGEF® Standard PVDF IR Plus/BCF Plus Fusion Fittings

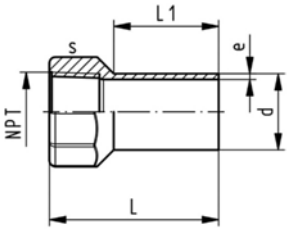




Male NPT Adaptor, PN 16

Size (mm)	NPT (in)	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	s (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	BCF, IR	16	1.9	50	26	32	0.051	735914555	49.87
20	1/2	BCF, IR	20	1.9	53	26	32	0.066	735914556	52.13
25	3/4	BCF, IR	25	1.9	55	26	36	0.071	735914557	53.41
32	1	BCF, IR	32	2.4	57	26	46	0.115	735914558	70.30
40	1 1/4	BCF, IR	40	2.4	60	26	55	0.165	735914559	77.67
50	1 1/2	BCF, IR	50	3.0	63	26	65	0.271	735914560	130.33
63	2	BCF, IR	63	3.0	69	27	75	0.388	735914561	152.77

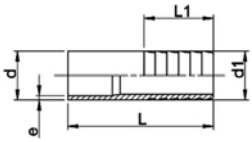




Female NPT Adaptor, PN 16

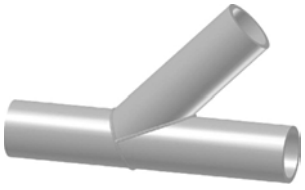
Size (mm)	NPT (in)	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	s (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	BCF, IR	20	1.9	54	30	32	0.029	735914585	44.86
20	1/2	BCF, IR	20	1.9	54	30	32	0.027	735914586	44.86
25	3/4	BCF, IR	25	1.9	58	30	38	0.033	735914587	51.13
32	1	BCF, IR	32	2.4	63	30	48	0.066	735914588	78.10
40	1 1/4	BCF, IR	40	2.4	67	30	58	0.085	735914589	95.86
50	1 1/2	BCF, IR	50	3.0	67	30	65	0.108	735914590	134.16
63	2	BCF, IR	63	3.0	73	30	80	0.190	735914591	163.20

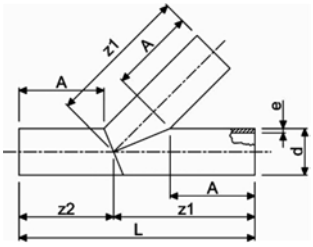




Hose Adaptor, PN 16

Size (mm)	FM	d (mm)	d1 (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20 x 20	BCF, IR	20	20	1.9	64	27	0.033	735968606	63.03
25 x 25	BCF, IR	25	25	1.9	75	36	0.053	735968607	70.30
32 x 32	BCF, IR	32	32	2.4	82	36	0.093	735968608	81.30
40 x 40	BCF, IR	40	40	2.4	84	42	0.139	735968609	113.24
50 x 50	BCF, IR	50	50	3.0	90	48	0.185	735968610	141.02
63 x 60	BCF, IR	63	60	3.0	100	50	0.260	735968611	173.07





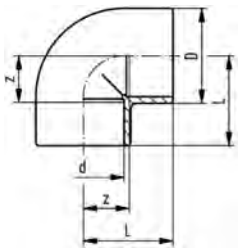
45° Wye

Size (mm)	Closest Inch	d (mm)	e (mm)	A (in)	L (in)	z1 (in)	z2 (in)	Mfg Part #	Price $
50	1 1/2	50	3.0	5.91	14.59	8.28	6.31	155345050	373.91
63	2	63	3.0	5.91	15.32	8.90	6.42	155345063	537.36
75	2 1/2	75	3.6	5.91	15.99	9.47	6.52	155345075	630.31
90	3	90	4.3	7.87	20.76	12.15	8.61	155345090	732.87
110	4	110	5.3	7.87	21.87	13.10	8.77	155345110	1200.79
160	6	160	4.9	7.87	24.66	15.48	9.18	155345160	2049.03
200	8	200	6.2	9.84	30.82	19.35	11.47	155345200	2480.64
225	9	225	7.0	9.84	32.21	20.54	11.68	155345225	3406.87

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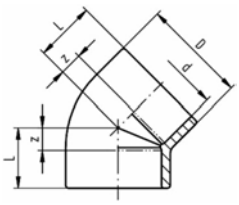




90° Elbow, PN 16

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	26	25	12	0.066	735100105	13.35
20	1/2	20	27	28	14	0.057	735100106	14.64
25	3/4	25	32	32	16	0.086	735100107	18.27
32	1	32	40	38	20	0.146	735100108	35.14
40	1 1/4	40	49	44	24	0.231	735100109	52.13
50	1 1/2	50	60	51	28	0.362	735100110	76.38
63	2	63	75	62	35	0.633	735100111	132.47

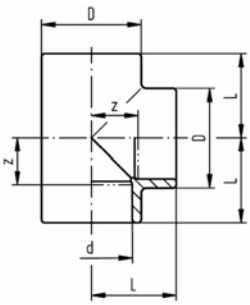




45° Elbow, PN 16

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	23	20	7	0.037	735150105	19.44
20	1/2	20	27	21	7	0.044	735150106	19.44
25	3/4	25	32	24	8	0.071	735150107	20.62
32	1	32	40	28	10	0.110	735150108	23.07
40	1 1/4	40	49	33	13	0.179	735150109	49.78
50	1 1/2	50	60	36	13	0.262	735150110	60.68
63	2	63	75	43	16	0.465	735150111	88.57

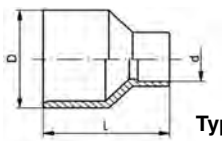




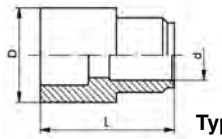
Tee, PN 16

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	26	25	12	0.086	735200105	23.07
20	1/2	20	27	28	14	0.075	735200106	23.07
25	3/4	25	32	32	16	0.115	735200107	26.71
32	1	32	40	38	20	0.203	735200108	42.52
40	1 1/4	40	49	44	24	0.300	735200109	65.48
50	1 1/2	50	60	51	28	0.463	735200110	99.46
63	2	63	75	62	35	0.818	735200111	157.04

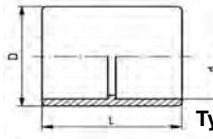




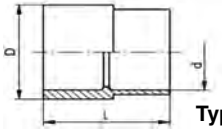
Type A



Type B



Type C



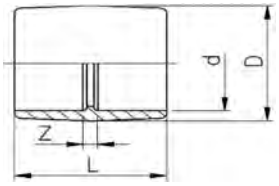
Type D

Reducer Bushing, PN 16

Size D x d (mm)	Closest Inch	D (mm)	d (mm)	L (mm)	Type	Weight (lb)	Mfg Part #	Price $
20 x 16	1/2 x 3/8	20	16	35	B	0.037	735910334	16.99
25 x 20	3/4 x 1/2	25	20	37	A	0.035	735910337	16.99
32 x 20	1 x 1/2	32	20	43	A	0.051	735910342	21.90
40 x 20	1 1/4 x 1/2	40	20	48	A	0.075	735910348	31.52
40 x 25	1 1/4 x 3/4	40	25	48	A	0.077	735910347	31.52
50 x 20	1 1/2 x 1/2	50	20	54	A	0.130	735910355	32.79
50 x 25	1 1/2 x 3/4	50	25	54	A	0.130	735910354	32.79
50 x 32	1 1/2 x 1	50	32	54	A	0.134	735910353	32.79
63 x 20	2 x 1/2	63	20	64	A	0.225	735910362	59.40
63 x 25	2 x 3/4	63	25	64	A	0.231	735910361	59.40
63 x 32	2 x 1	63	32	64	A	0.238	735910360	59.40
63 x 40	2 x 1 1/4	63	40	64	A	0.260	735910359	59.40

SYGEF® Standard PVDF Socket Fusion Fittings

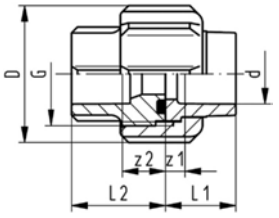




Coupling, PN 16

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	26	33	7	0.044	735910105	12.18
20	1/2	20	27	35	7	0.029	735910106	12.18
25	3/4	25	32	39	7	0.051	735910107	21.90
32	1	32	40	43	7	0.084	735910108	31.52
40	1 1/4	40	50	48	8	0.137	735910109	32.79
50	1 1/2	50	63	54	8	0.225	735910110	59.40
63	2	63	75	62	8	0.322	735910111	94.55

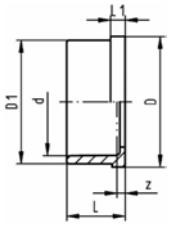




Union (FPM Black), PN 16

Size (mm)	Closest Inch	d (mm)	D (mm)	G (R/Rp BS Thread) (in.)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	35	3/4	18	24	11	5	0.055	735510105	42.52
20	1/2	20	43	1	19	26	12	5	0.126	735510106	49.78
25	3/4	25	53	1 1/4	21	28	12	5	0.198	735510107	58.23
32	1	32	60	1 1/2	23	30	12	5	0.260	735510108	77.67
40	1 1/4	40	74	2	25	34	14	5	0.430	735510109	116.44
50	1 1/2	50	82	2 1/4	28	39	16	5	0.538	735510110	157.04
63	2	63	100	2 3/4	32	47	20	5	0.888	735510111	236.10

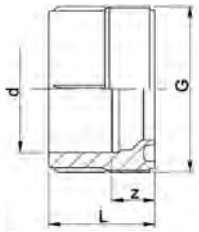




Union End, PN 16

Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
16	3/8	16	24	22	18	4	5	735600105	16.00
20	1/2	20	30	28	19	5	5	735600106	18.00
25	3/4	25	39	36	21	5	5	735600107	21.00
32	1	32	45	42	23	6	5	735600108	24.00
40	1 1/4	40	57	53	25	6	5	735600109	33.00
50	1 1/2	50	63	59	28	7	5	735600110	37.00
63	2	63	78	74	32	7	5	735600111	52.00

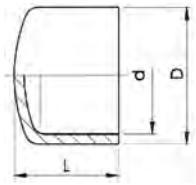




Union Bushing, PN 16

Size (mm)	Closest Inch	d (mm)	G (R/Rp BS Thread) (in.)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	3/4	24	11	0.024	735640105	23.07
20	1/2	20	1	26	12	0.042	735640106	24.25
25	3/4	25	1 1/4	28	12	0.068	735640107	26.71
32	1	32	1 1/2	30	12	0.088	735640108	35.14
40	1 1/4	40	2	34	14	0.150	735640109	43.69
50	1 1/2	50	2 1/4	39	16	0.198	735640110	59.40
63	2	63	2 3/4	47	20	0.355	735640111	100.64





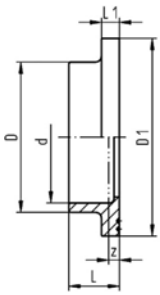
Cap, PN 16

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	25	24	0.029	735960105	19.44
20	1/2	20	27	23	0.022	735960106	19.44
25	3/4	25	32	26	0.037	735960107	25.54
32	1	32	40	30	0.064	735960108	26.71
40	1 1/4	40	49	34	0.099	735960109	42.52
50	1 1/2	50	60	39	0.163	735960110	59.40
63	2	63	75	46	0.278	735960111	87.28

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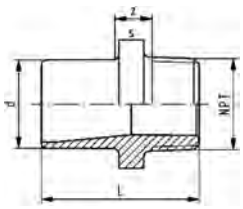




Flange Adaptor, PN 16, ANSI Serrated

Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	20	27	45	19	6	3	0.042	735790206	11.00
25	3/4	25	33	54	21	7	3	0.082	735790257	11.00
32	1	32	41	63	23	7	3	0.112	735790258	13.35
40	1 1/4	40	50	73	25	8	3	0.161	735790259	13.35
50	1 1/2	50	61	82	28	8	3	0.209	735790260	21.90
63	2	63	76	102	32	9	3	0.311	735790211	38.78

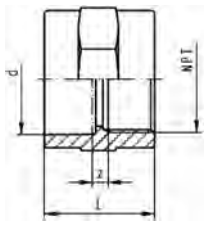




Male NPT Adaptor, PN 16

Size (mm)	NPT (in)	d (mm)	L (mm)	s (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	29	27	3	0.035	735914505	24.25
20	1/2	20	34	32	5	0.066	735914506	25.54
25	3/4	25	38	36	6	0.079	735914507	25.54
32	1	32	43	46	7	0.148	735914508	48.51
40	1 1/4	40	47	55	7	0.220	735914509	66.66
50	1 1/2	50	54	65	9	0.309	735914510	87.28
63	2	63	62	80	9	0.485	735914511	107.90

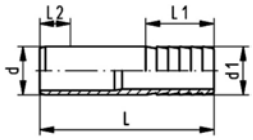




Female NPT Adaptor, PN 16

Size (mm)	NPT (in)	d (mm)	L (mm)	s (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	29	27	3	0.035	735914205	23.07
20	1/2	20	34	32	5	0.066	735914206	30.34
25	3/4	25	38	36	6	0.079	735914207	32.79
32	1	32	43	46	7	0.148	735914208	52.13
40	1 1/4	40	47	55	7	0.220	735914209	76.38
50	1 1/2	50	54	65	9	0.309	735914210	99.46
63	2	63	62	80	9	0.485	735914211	122.86





Hose Adaptor, PN 16

Size (mm)	d (mm)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
20 x 20	20	20	78	27	14	0.040	735960406	63.03
25 x 25	25	25	91	36	16	0.062	735960407	70.30
32 x 32	32	32	100	36	18	0.110	735960408	81.30
40 x 40	40	40	104	42	20	0.172	735960409	113.24
63 x 60	63	60	100	50	27	0.278	735960411	173.07

All prices subject to change without notice.

SYGEF® Plus HP PVDF

SYGEF® Plus HP PVDF Pipe and Butt Fusion Fittings



High Purity products are specialty products by definition. Procedures and protocols to manufacture and deliver such product must reflect these circumstances.

SYGEF® Plus provides the best solution for conveying Ultrapure Water (UPW) for manufacturers.

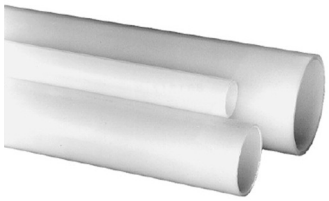
Ultimately, the overall UPW system integrity is assured from source to point of use by the complete integration of SYGEF® Plus PVDF products and associated jointing technologies.

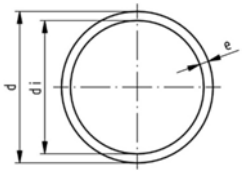
Adhering strongly to accepted standards such as SEMI, SEMATECH, ISO and DIN, we control the entire process from the injection molding of the fittings and valves, to the extrusion of the pipe as well as the design and construction of the fusion equipment.

Advantages:
- World's largest cleanroom dedicated to fluoropolymer manufacturing
- Purity: stringent particle control
- Superior leach out characteristics for TOC, metals and anions
- Smoothest surface quality
- System safety and reliability
- Longevity

Technical Data:
- Size Range: d20 - d450 mm (1/2" - 18")
- Pressure Rating: d20 - d225 mm: PN16 (232 PSI), d90 - d450 mm: PN10 (150 PSI)
- Operating Temperature: -20°C - 140°C (-4°F - 284°F)
- Joining Technology: BCF Plus Fusion, IR Plus Fusion, Butt Fusion
- Standard Ratings: ASME BPE, FDA CFR 21 177.1520, USP 25 Class VI, SEMI F57, FM4910
- Material: Polyvinylidene Fluoride (PVDF)

Fields of Application:
- Semiconductor UPW/HUPW
- USP Pharmaceutical
- Water for injection (WFI)
- High purity acid distribution

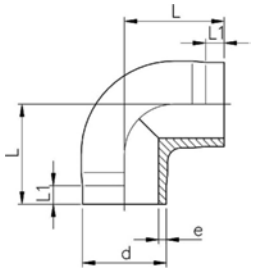




SYGEF® Plus HP PVDF Pipe, PN 16 and PN 10 - 5 Meters

Size (mm)	Closest Inch	PN	FM	d (mm)	di (mm)	e (mm)	lbs per meter	Mfg Part #	Price $
20	1/2	16	BCF, IR	20	16.2	1.9	0.463	175481203	54.59
25	3/4	16	BCF, IR	25	21.2	1.9	0.593	175481204	69.12
32	1	16	BCF, IR	32	27.2	2.4	0.959	175481205	115.38
40	1 1/4	16	BCF, IR	40	35.2	2.4	1.241	175481206	144.23
50	1 1/2	16	BCF, IR	50	44.0	3.0	1.874	175481207	223.28
63	2	16	BCF, IR	63	57.0	3.0	2.403	175481208	288.44
75	2 1/2	16	BCF, IR	75	67.8	3.6	3.417	175481209	410.24
90	3	16	BCF, IR	90	81.4	4.3	4.916	175481210	590.78
110	4	16	BCF, IR	110	99.4	5.3	7.341	175481211	885.64
90	3	10	BCF, IR	90	84.4	2.8	3.263	175481665	410.24
110	4	10	BCF, IR	110	103.2	3.4	4.850	175481666	561.94
160	6	10	IR	160	150.2	4.9	10.009	175481668	1271.30
200	8	10	IR	200	187.6	6.2	15.851	175481669	1880.24
225	9	10	IR	225	211.2	6.9	19.731	175481670	2488.11
250	10	10	IR	250	234.6	7.7	24.471	175481671	2990.23
315	12	10	IR	315	295.6	9.7	38.801	175481674	4305.33
355	14	10	IR	355	333.2	10.9	46.208	175481657	POA
400	16	10	IR	400	375.4	12.3	58.753	175481658	POA
450	18	10	IR	450	422.4	13.8	74.163	175481659	POA





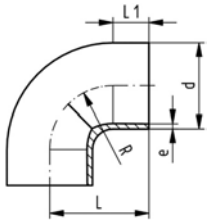
90° Elbow Short Radius, PN 16

Size (mm)	Closest Inch	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	38	25	0.057	735108631	18.27
25	3/4	BCF, IR	25	1.9	42	26	0.073	735108632	20.62
32	1	BCF, IR	32	2.4	46	26	0.123	735108633	38.78
40	1 1/4	BCF, IR	40	2.4	51	28	0.165	735108634	57.05
50	1 1/2	BCF, IR	50	3.0	58	28	0.282	735108635	89.74
63	2	BCF, IR	63	3.0	66	28	0.465	735108636	160.25

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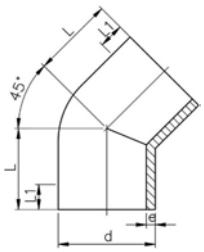




90° Elbow Sweep Radius, PN 16 and PN 10

Size (mm)	Closest Inch	PN	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	R (mm)	Weight (lb)	Mfg Part #	Price $
75	2 1/2	16	BCF, IR	75	3.6	75	23	62	0.681	735018737	275.20
90	3	16	BCF, IR	90	4.3	90	23	77	1.080	735018738	404.78
110	4	16	BCF, IR	110	5.3	110	23	98	1.748	735018739	721.11
90	3	10	BCF, IR	90	2.8	90	23	77	0.862	735018538	303.40
110	4	10	BCF, IR	110	3.4	110	23	98	1.272	735018539	564.07
160	6	10	IR	160	4.9	160	33	141	4.037	735018542	1242.45
200	8	10	IR	200	6.2	200	33	181	7.152	735018544	1646.28
225	9	10	IR	225	6.9	220	33	200	9.405	735018545	2021.26
250	10	10	IR	250	7.7	254	48	232	9.489	735018546	2524.43
315	12	10	IR	315	9.7	321	48	297	19.912	735018548	4026.49

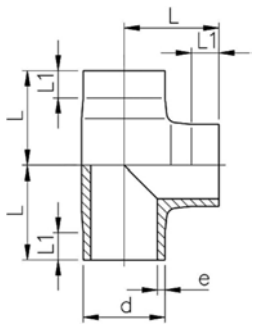




45° Elbow, PN 16 and PN 10

Size (mm)	Closest Inch	PN	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	16	BCF, IR	20	1.9	32	25	0.051	735158631	21.90
25	3/4	16	BCF, IR	25	1.9	34	26	0.044	735158632	26.71
32	1	16	BCF, IR	32	2.4	36	26	0.099	735158633	31.52
40	1 1/4	16	BCF, IR	40	2.4	39	28	0.134	735158634	58.23
50	1 1/2	16	BCF, IR	50	3.0	42	30	0.205	735158635	72.75
63	2	16	BCF, IR	63	3.0	47	31	0.289	735158636	116.44
75	2 1/2	16	BCF, IR	75	3.6	49	32	0.437	735158637	232.90
90	3	16	BCF, IR	90	4.3	57	37	0.719	735158638	348.27
110	4	16	BCF, IR	110	5.3	70	46	1.265	735158639	607.88
90	3	10	BCF, IR	90	2.8	57	37	0.399	735158538	259.60
110	4	10	BCF, IR	110	3.4	70	46	0.728	735158539	467.93
160	6	10	IR	160	4.9	100	62	2.615	735158542	1097.16
200	8	10	IR	200	6.2	124	77	4.736	735158544	1348.22
225	9	10	IR	225	6.9	140	88	6.865	735158545	1700.76



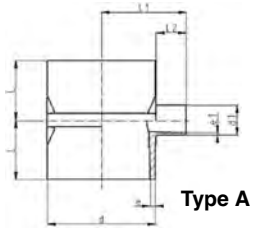


Tee, PN 16 and PN 10

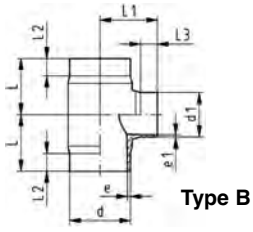
Size (mm)	Closest Inch	PN	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	16	BCF, IR	20	1.9	38	25	0.064	735208631	26.71
25	3/4	16	BCF, IR	25	1.9	42	27	0.104	735208632	33.97
32	1	16	BCF, IR	32	2.4	46	27	0.168	735208633	52.13
40	1 1/4	16	BCF, IR	40	2.4	51	28	0.229	735208634	75.21
50	1 1/2	16	BCF, IR	50	3.0	58	28	0.375	735208635	131.40
63	2	16	BCF, IR	63	3.0	66	28	0.617	735208636	189.09
75	2 1/2	16	BCF, IR	75	3.6	75	32	0.888	735208637	348.27
90	3	16	BCF, IR	90	4.3	90	39	1.495	735208638	504.25
110	4	16	BCF, IR	110	5.3	110	48	2.612	735208639	679.45
90	3	10	BCF, IR	90	2.8	90	39	1.204	735208538	388.87
110	4	10	BCF, IR	110	3.4	110	48	1.980	735208539	517.06
160	6	10	IR	160	4.9	160	71	5.562	735208542	1328.99
200	8	10	IR	200	6.2	200	80	11.845	735208544	1761.66
225	9	10	IR	225	6.9	220	86	16.028	735208545	2253.08
250	10	10	IR	250	7.7	223	61	15.298	735208546	2842.79
315	12	10	IR	315	9.7	274	74	30.605	735208548	4502.97
355	14	10	IR	355	10.9	311	100	47.492	735208549	POA
400	16	10	IR	400	12.3	332	100	64.027	735208550	POA
450	18	10	IR	450	13.8	357	100	85.709	735208551	POA

SYGEF® Plus HP PVDF Butt Fusion Fittings

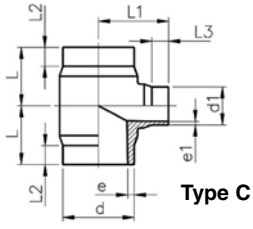




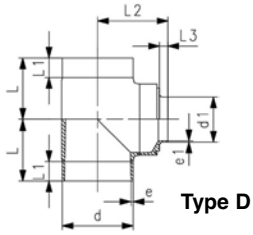
Type A



Type B



Type C



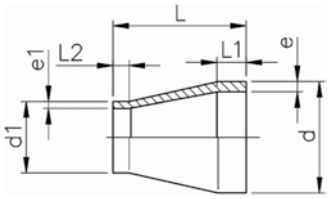
Type D

Molded Reducing Tee, PN 16 and PN 10

Size d x d1 (mm)	Closest Inch	Type	FM	PN	e (mm)	e1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	Weight (lb)	Mfg Part #	Price $
63 x 20	2 x 1/2	A	BCF, IR	16	3.0	1.9	60	67	25	35	0.551	735208956	391.00
63 x 25	2 x 3/4	A	BCF, IR	16	3.0	1.9	60	66	25	34	0.540	735208957	391.00
63 x 32	2 x 1	A	BCF, IR	16	3.0	2.4	60	67	25	25	0.567	735208958	391.00
63 x 40	2 x 1 1/4	A	BCF, IR	16	3.0	2.4	60	66	25	26	0.560	735208959	391.00
75 x 20	2 1/2 x 1/2	A	BCF, IR	16	3.6	1.9	65	69	25	31	0.767	735208961	520.27
75 x 25	2 1/2 x 3/4	A	BCF, IR	16	3.6	1.9	65	72	25	34	0.785	735208962	520.27
75 x 32	2 1/2 x 1	A	BCF, IR	16	3.6	2.4	65	69	25	31	0.679	735208963	520.27
75 x 40	2 1/2 x 1 1/4	A	BCF, IR	16	3.6	2.4	65	72	25	26	0.688	735208964	520.27
75 x 50	2 1/2 x 1 1/2	A	BCF, IR	16	3.6	3.0	65	69	25	26	0.820	735208965	520.27
90 x 20	3 x 1/2	A	BCF, IR	16	4.3	1.9	65	76	25	31	1.036	735208967	693.34
90 x 25	3 x 3/4	A	BCF, IR	16	4.3	1.9	65	79	25	34	1.027	735208968	693.34
90 x 32	3 x 1	A	BCF, IR	16	4.3	2.4	65	76	25	31	0.893	735208969	693.34
90 x 40	3 x 1 1/4	A	BCF, IR	16	4.3	2.4	65	79	25	26	1.049	735208970	693.34
90 x 50	3 x 1 1/2	A	BCF, IR	16	4.3	3.0	65	76	25	26	0.996	735208971	693.34
90 x 63	3 x 2	B	BCF, IR	16	4.3	3.0	80	85	25	25	1.347	735208972	693.34
110 x 20	4 x 1/2	A	BCF, IR	16	5.3	1.9	65	86	25	31	1.413	735208974	982.86
110 x 25	4 x 3/4	A	BCF, IR	16	5.3	1.9	65	89	25	34	1.257	735208975	982.86
110 x 32	4 x 1	A	BCF, IR	16	5.3	2.4	65	86	25	31	1.257	735208976	982.86
110 x 40	4 x 1 1/4	A	BCF, IR	16	5.3	2.4	65	89	25	26	1.411	735208977	982.86
110 x 50	4 x 1 1/2	A	BCF, IR	16	5.3	3.0	65	86	25	26	1.411	735208978	982.86
110 x 63	4 x 2	B	BCF, IR	16	5.3	3.0	90	95	30	25	2.039	735208979	982.86
110 x 75	4 x 2 1/2	B	BCF, IR	16	5.3	3.0	90	95	30	25	2.094	735208980	982.86
110 x 90	4 x 3	B	BCF, IR	16	5.3	4.3	90	95	30	25	2.114	735208981	982.86
160 x 90	6 x 3	B	IR	16	7.7	4.3	155	130	60	25	6.814	735208687	1806.53
160 x 110	6 x 4	B	IR	16	7.7	5.3	155	130	60	25	6.786	735208686	1806.53
225 x 90	9 x 3	B	IR	16	10.8	4.3	155	160	60	25	11.956	735208695	2906.90
225 x 110	9 x 4	B	IR	16	10.8	5.3	155	160	60	25	13.448	735208694	2906.90
160 x 90	6 x 3	C	IR	10	4.9	4.3	155	130	60	25	5.359	735208587	1890.93
160 x 110	6 x 4	C	IR	10	4.9	5.3	155	130	60	25	5.542	735208586	1890.93
225 x 90	9 x 3	C	IR	10	6.9	4.3	155	160	60	25	9.919	735208595	3059.67
225 x 110	9 x 4	C	IR	10	6.9	5.3	155	160	60	25	10.110	735208594	3059.67
225 x 160	9 x 6	C	IR	10	6.9	4.9	155	170	60	35	9.345	735208593	3059.67
355 x 225	14 x 9	D	IR450/315	10	10.9	6.9	309	353	100	43	51.718	735209815	POA
355 x 315	14 x 12	D	IR450/315	10	10.9	9.7	309	348	100	55	49.924	735209818	POA
400 x 225	16 x 9	D	IR450/315	10	12.3	6.9	332	376	100	43	70.374	735209827	POA
400 x 315	16 x 12	D	IR450/315	10	12.3	9.7	332	371	100	55	68.178	735209830	POA
450 x 225	18 x 9	D	IR450/315	10	13.8	6.9	357	401	100	43	94.876	735209840	POA
450 x 315	18 x 12	D	IR450/315	10	13.8	9.7	357	396	100	55	92.354	735209843	POA

SYGEF® Plus HP PVDF Butt Fusion Fittings



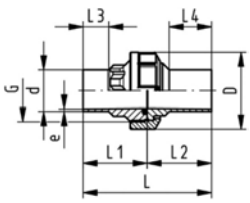


NOTE: Eccentric and Flush Style Reducers Available

Reducer, PN 16 and PN 10

Size d x d1 (mm)	Closest Inch	FM	PN	e (mm)	e1 (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
25 x 20	3/4 x 1/2	BCF, IR	16	1.9	1.9	50	22	22	0.046	735908600	18.27
32 x 20	1 x 1/2	BCF, IR	16	2.4	1.9	50	22	22	0.062	735908602	29.16
32 x 25	1 x 3/4	BCF, IR	16	2.4	1.9	50	22	22	0.062	735908601	29.16
40 x 20	1 1/4 x 1/2	BCF, IR	16	2.4	1.9	58	22	24	0.082	735908605	33.97
40 x 25	1 1/4 x 3/4	BCF, IR	16	2.4	1.9	55	22	24	0.073	735908604	33.97
40 x 32	1 1/4 x 1	BCF, IR	16	2.4	2.4	55	22	24	0.084	735908603	33.97
50 x 25	1 1/2 x 3/4	BCF, IR	16	3.0	1.9	60	22	25	0.119	735908608	42.52
50 x 32	1 1/2 x 1	BCF, IR	16	3.0	2.4	60	22	25	0.130	735908607	42.52
50 x 40	1 1/2 x 1 1/4	BCF, IR	16	3.0	2.4	60	22	25	0.132	735908606	42.52
63 x 32	2 x 1	BCF, IR	16	3.0	2.4	65	22	25	0.172	735908611	57.05
63 x 40	2 x 1 1/4	BCF, IR	16	3.0	2.4	65	22	25	0.181	735908610	57.05
63 x 50	2 x 1 1/2	BCF, IR	16	3.0	3.0	65	22	25	0.198	735908609	57.05
75 x 40	2 1/2 x 1 1/4	BCF, IR	16	3.6	2.4	68	24	25	0.240	735908614	116.44
75 x 50	2 1/2 x 1 1/2	BCF, IR	16	3.6	3.0	65	24	25	0.276	735908613	116.44
75 x 63	2 1/2 x 2	BCF, IR	16	3.6	3.0	65	24	25	0.282	735908612	116.44
90 x 63	3 x 2	BCF, IR	16	4.3	3.0	75	25	30	0.362	735908616	131.40
90 x 75	3 x 2 1/2	BCF, IR	16	4.3	3.6	75	25	35	0.412	735908615	131.40
110 x 63	4 x 2	BCF, IR	16	5.3	3.0	90	30	30	0.664	735908619	189.09
110 x 75	4 x 2 1/2	BCF, IR	16	5.3	3.6	90	30	35	0.639	735908618	189.09
110 x 90	4 x 3	BCF, IR	16	5.3	4.3	90	30	35	0.708	735908617	189.09
90 x 63	3 x 2	BCF, IR	10	2.8	3.0	75	25	30	0.328	735908511	100.64
110 x 63	4 x 2	BCF, IR	10	3.4	3.0	90	30	30	0.362	735908513	141.02
110 x 90	4 x 3	BCF, IR	10	3.4	2.8	90	30	35	0.527	735908515	150.63
160 x 110	6 x 4	IR	10	4.9	5.3	120	40	40	1.382	735908504	563.00
200 x 160	8 x 6	IR	10	6.2	4.9	145	50	40	2.275	735908505	563.00
225 x 110	9 x 4	IR	10	6.9	5.3	160	55	35	3.027	735908506	650.61
225 x 160	9 x 6	IR	10	6.9	4.9	160	55	40	2.974	735908507	650.61
225 x 200	9 x 8	IR	10	6.9	6.2	160	55	50	3.252	735908508	650.61
250 x 225	10 x 9	IR	10	7.7	6.9	182	60	55	4.883	735908531	895.25
315 x 225	12 x 9	IR	10	9.7	6.9	231	80	55	8.620	735908533	1371.72

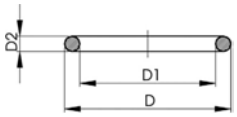




Union, FPM White, PN 16

Size (mm)	Closest Inch	FM	d (mm)	D (mm)	G (R/Rp BS Thread) (in.)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	43	1	1.9	106	53	53	25	37	0.181	735528626	67.95
25	3/4	BCF, IR	25	53	1 1/4	1.9	112	56	56	25	38	0.271	735528627	86.10
32	1	BCF, IR	32	60	1 1/2	2.4	118	59	59	25	40	0.366	735528628	113.24
40	1 1/4	BCF, IR	40	74	2	2.4	124	62	62	25	41	0.580	735528629	157.04
50	1 1/2	BCF, IR	50	82	2 1/4	3.0	130	65	65	25	43	0.820	735528630	195.51
63	2	BCF, IR	63	100	2 3/4	3.0	136	68	68	25	44	1.021	735528631	302.33
75	2 1/2	BCF, IR	75	133	S107.5 X 3.6	3.6	132	66	66	24	34	1.631	735528637	467.93
90	3	BCF, IR	90	133	S107.5 X 3.6	4.3	130	65	65	24	48	1.759	735528638	629.24
110	4	BCF, IR	110	155	S127.5 X 3.6	5.3	130	65	65	25	45	2.249	735528639	820.46





O-Ring, FPM White, for SYGEF Plus Unions

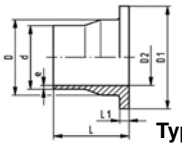
Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	D2 (mm)	Mfg Part #	Price $
20	1/2	20	21	15.5	2.6	749411005	8.00
25	3/4	25	27	20.2	3.5	749411006	13.00
32	1	32	34	26.6	3.5	749411120	22.00
40	1 1/4	40	42	34.5	3.5	749411062	23.00
50	1 1/2	50	51	44.0	3.5	749411172	24.00
63	2	63	63	55.0	4.0	749411054	26.00
75	2 1/2	75	80	69.2	5.3	749411013	55.56
90	3	90	93	81.9	5.3	749411014	73.71
110	4	110	117	101.0	5.3	749411015	84.40

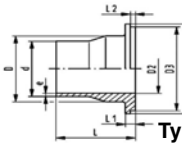
O-Ring, Chemraz® White, for SYGEF Plus HP Unions

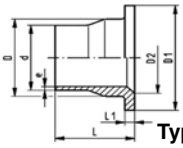
Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	D2 (mm)	Mfg Part #	Price $
20	1/2	20	20.6	15	2.6	150411005	POA
25	3/4	25	27.3	20	3.5	150411006	POA
32	1	32	33.6	26	3.5	150411120	POA
40	1 1/4	40	41.6	34	3.5	150411062	POA
50	1 1/2	50	51.1	44	3.5	150411172	POA
63	2	63	63.0	55	4.0	150411054	POA

SYGEF® Plus HP PVDF Butt Fusion Fittings





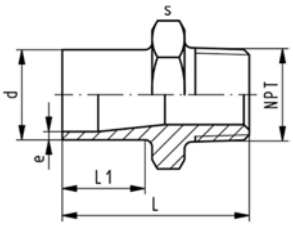




Flange Adaptor, PN 16 and PN 10, ANSI Serrated

Size (mm)	Closest Inch	Type	FM	PN	d (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	A	BCF, IR	16	20	26	45	15	-	1.9	54	6	-	0.093	735798831	13.35
25	3/4	B	BCF, IR	16	25	32	58	20	54	1.9	56	7	4	0.132	735798832	15.81
32	1	B	BCF, IR	16	32	40	68	26	63	2.4	58	7	4	0.146	735798833	15.81
40	1 1/4	B	BCF, IR	16	40	49	78	34	73	2.4	68	8	4	0.267	735798834	24.25
50	1 1/2	B	BCF, IR	16	50	60	88	42	82	3.0	69	8	4	0.364	735798835	30.34
63	2	A	BCF, IR	16	63	75	102	56	-	3.0	72	9	-	0.522	735798836	47.33
75	2 1/2	A	BCF, IR	16	75	89	122	66	-	3.6	80	10	-	0.796	735798837	112.18
90	3	B	BCF, IR	16	90	105	138	78	133	4.3	81	12	4	0.979	735798838	147.43
110	4	C	BCF, IR	16	110	125	158	100	-	5.3	81	13	-	1.380	735798839	251.05
90	3	B	BCF, IR	10	90	105	138	78	133	2.8	81	12	4	0.911	735798888	134.61
110	4	A	BCF, IR	10	110	125	158	100	-	3.4	81	13	-	1.190	735798889	195.51
160	6	C	IR	10	160	175	212	151	-	4.9	93	17	-	2.286	735798892	995.67
200	8	C	IR	10	200	232	268	207	-	6.2	102	22	-	3.893	735798894	1348.22
225	9	A	IR	10	225	235	268	207	-	6.9	102	22	-	3.840	735798895	1468.94
250	10	C	IR	10	250	285	320	250	-	7.7	120	22	-	6.019	735798596	1852.46
315	12	C	IR	10	315	335	370	300	-	9.7	120	22	-	8.062	735798598	2893.01
355	14	A	IR	10	355	373	430	327	-	10.9	170	30	-	14.489	735798549	POA
400	16	C	IR	10	400	427	482	396	-	12.3	175	32	-	17.571	735798550	POA
450	18	C	IR	10	450	467	530	430	-	13.8	180	36	-	23.380	735798551	POA

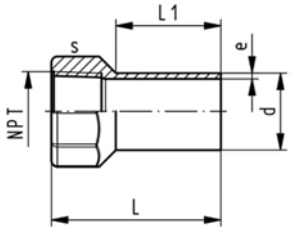




Male NPT Adaptor, PN 16

Size (mm)	NPT (in)	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	s (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	53	28	32	0.035	735914306	88.57
25	3/4	BCF, IR	25	1.9	55	28	36	0.046	735914307	104.27
32	1	BCF, IR	32	2.4	57	28	46	0.077	735914308	133.54
40	1 1/4	BCF, IR	40	2.4	60	28	55	0.126	735914309	185.89
50	1 1/2	BCF, IR	50	3.0	63	28	65	0.295	735914310	239.30
63	2	BCF, IR	63	3.0	69	29	75	0.262	735914311	358.96

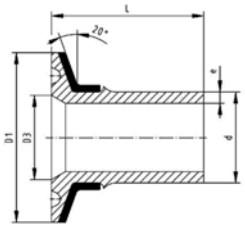




Female NPT Adaptor, PN 16, PVDF-HP

Size (mm)	NPT (in)	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	s (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	54	30	32	0.027	735914786	67.01
25	3/4	BCF, IR	25	1.9	58	30	38	0.033	735914787	74.23
32	1	BCF, IR	32	2.4	63	30	48	0.066	735914788	125.77
40	1 1/4	BCF, IR	40	2.4	67	30	58	0.085	735914789	137.11
50	1 1/2	BCF, IR	50	3.0	67	30	65	0.108	735914790	173.20
63	2	BCF, IR	63	3.0	73	30	80	0.190	735914791	186.60





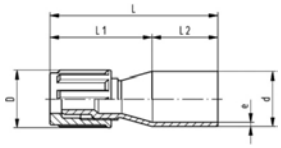
Sanitary Adaptor, PN 16, ASME BPE, PVDF-HP

Size (mm)	Size (in)	FM	d (mm)	D1 (mm)	D3 (mm)	e (mm)	L (mm)	Mfg Part #	Price $
20	3/4	BCF, IR	20	25	16.20	1.9	49	735598357	167.72
25	1	BCF, IR	25	51	22.40	1.9	55	735598359	174.13
32	1 1/4	BCF, IR	32	51	34.90	2.4	57	735598362	177.34
40	1 1/2	BCF, IR	40	51	35.50	2.4	57	735598365	183.75
50	2	BCF, IR	50	64	47.70	3.0	68	735598367	200.85
63	2 1/2	BCF, IR	63	78	59.90	3.0	71	735598369	214.73

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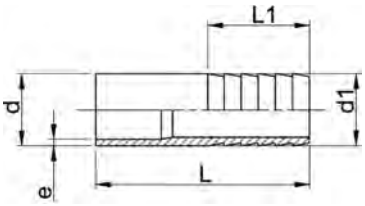




Flare Tube Adaptor, PN 10

Size (mm)	Tube Size (in)	FM	d (mm)	D (mm)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/4	BCF, IR	20	21	1.9	75	45	30	0.062	735598430	92.20
20	3/8	BCF, IR	20	23	1.9	76	46	30	0.049	735598431	95.82
20	1/2	BCF, IR	20	26	1.9	77	47	30	0.075	735598432	104.27
20	3/4	BCF, IR	20	34	1.9	78	48	30	0.095	735598433	111.10
25	1/4	BCF, IR	25	21	1.9	75	45	30	0.073	735598435	111.10
25	3/8	BCF, IR	25	23	1.9	76	46	30	0.055	735598436	111.10
25	1/2	BCF, IR	25	26	1.9	77	47	30	0.062	735598437	118.59
25	3/4	BCF, IR	25	34	1.9	78	48	30	0.110	735598438	124.99
25	1	BCF, IR	25	46	1.9	87	57	30	0.225	735598439	136.74
32	1/2	BCF, IR	32	26	2.4	77	47	30	0.079	735598442	148.49
32	3/4	BCF, IR	32	34	2.4	78	48	30	0.106	735598443	155.98
32	1	BCF, IR	32	46	2.4	87	57	30	0.236	735598444	163.45

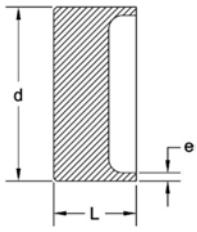




Hose Adaptor, PN 16

Size (mm)	FM	d (mm)	d1 (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20 x 20	BCF, IR	20	20	1.9	64	27	0.033	735968731	53.41
25 x 25	BCF, IR	25	25	1.9	75	36	0.053	735968732	43.69
32 x 32	BCF, IR	32	32	2.4	82	36	0.093	735968733	67.95
40 x 40	BCF, IR	40	40	2.4	84	42	0.139	735968734	92.20
50 x 50	BCF, IR	50	50	3.0	90	48	0.331	735968735	116.44
63 x 60	BCF, IR	63	60	3.0	100	50	0.500	735968736	142.08



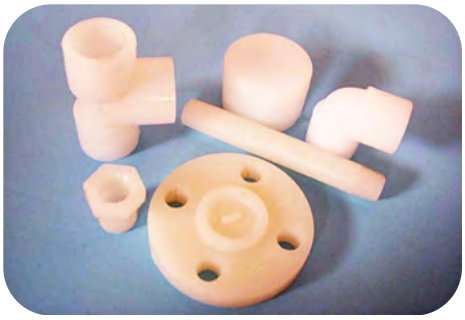


Flush End Cap, PN 16 and PN 10

Size (mm)	Closest Inch	FM	PN	d (mm)	e (mm)	L (mm)	Mfg Part #	Price $
20	1/2	IR	16	20	1.9	30	735992680	133.54
25	3/4	IR	16	25	1.9	30	735992681	133.54
32	1	IR	16	32	2.4	30	735992682	133.54
40	1 1/4	IR	16	40	2.4	30	735992683	183.75
50	1 1/2	IR	16	50	3.0	30	735992684	183.75
63	2	IR	16	63	3.0	30	735992685	183.75
75	2 1/2	IR	16	75	3.6	30	735992686	183.75
90	3	IR	16	90	4.3	36	735992687	209.39
110	4	IR	16	110	5.3	38	735992688	251.05
160	6	IR	10	160	4.9	42	735992690	472.20
200	8	IR	10	200	6.2	45	735992691	944.39
225	9	IR	10	225	6.9	50	735992692	1041.61

All prices subject to change without notice.

Natural PVDF - Sch. 80



Absolutely pure

- Unpigmented, transports material without contamination
- Ideal for use in electronics
- Pharmaceutical operations
- Food-beverage industry

Excellent chemical resistance

Eliminates rust, pitting, and scaling from vinegar to sulfuric acid, and from ultrapure water to corrosive slurries.

Product & design criteria

- 1/2"- 6" socket and 1/2"- 2" thread
- IPS may be installed above or below ground
- Temperature range 0° - 280°F

Lower installed costs

than lined steel, nickel, or steel alloys makes Natural Kynar the savings choice for high purity applications.

Natural Kynar (PVDF) Pipe

Pipe Size In.	Pipe Size mm	Part #	Price Per Ft.	Approx. Wt./ Per Ft.	Max. W.P. @ 73°F	O.D. (In.)	Minimum Wall Thickness (In.)
1/2	12.7	6600-005	$ 25.39	0.257	580	.840	.147
3/4	19.05	6600-007	34.22	0.348	470	1.050	.154
1	25.4	6600-010	49.28	0.511	430	1.315	.179
1 1/2	38.1	6600-015	80.13	0.858	320	1.900	.200
2	50.8	6600-020	108.00	1.187	270	2.375	.218
3	76.2	6600-030	249.40	2.461	250	3.500	.300
4	101.6	6600-040	341.10	3.596	220	4.500	.337
6	152.4	6600-060	691.00	6.858	190	6.625	.432



Natural 90° Ell socket

Size (in.)	Part #	Price
1/2	4806-005	63.05
3/4	4806-007	92.43
1	4806-010	104.50
1 1/2	4806-015	160.80
2	4806-020	197.70
3	4806-030	450.80
4	4806-040	790.00
6	4806-060	2168.00



Natural 90° Ell threaded

Size (in.)	Part #	Price
1/2	4808-005	64.52
3/4	4808-007	75.37
1	4808-010	108.70
1 1/2	4808-015	167.20
2	4808-020	228.10



Natural 45° Ell socket

Size (in.)	Part #	Price
1/2	4817-005	85.29
3/4	4817-007	89.51
1	4817-010	112.30
1 1/2	4817-015	160.80
2	4817-020	197.70
3	4817-030	469.80
4	4817-040	775.00
6	4817-060	2540.00



Natural 45° Ell threaded

Size (in.)	Part #	Price
1/2	4819-005	64.52
3/4	4819-007	94.53
1	4819-010	108.70
1 1/2	4819-015	167.20
2	4819-020	228.10



Natural Tee socket

Size (in.)	Part #	Price
1/2	4801-005	72.14
3/4	4801-007	119.70
1	4801-010	129.30
1 1/2	4801-015	212.90
2	4801-020	309.00
3	4801-030	576.00
4	4801-040	1005.00
6	4801-060	2566.00



Natural Tee threaded

Size (in.)	Part #	Price
1/2	4805-005	73.82
3/4	4805-007	84.85
1	4805-010	133.10
1 1/2	4805-015	215.50
2	4805-020	295.20



Natural Coupling socket

Size (in.)	Part #	Price
1/2	4829-005	56.26
3/4	4829-007	72.59
1	4829-010	84.85
1 1/2	4829-015	125.90
2	4829-020	196.40
3	4829-030	309.00
4	4829-040	531.00
6	4829-060	1512.00



Natural Coupling threaded

Size (in.)	Part #	Price
1/2	4830-005	57.57
3/4	4830-007	63.99
1	4830-010	86.81
1 1/2	4830-015	116.70
2	4830-020	193.80



Natural Flange socket

Size (in.)	Part #	Price
1/2	4851-005	87.35
3/4	4851-007	105.30
1	4851-010	182.40
1 1/2	4851-015	201.30
2	4851-020	438.20
3	4851-030	620.00
4	4851-040	1033.00
6	4851-060	2022.00



Natural Flange threaded

Size (in.)	Part #	Price
1/2	4852-005	109.20
3/4	4852-007	134.30
1	4852-010	214.00
1 1/2	4852-015	278.70
2	4852-020	442.10



Natural Flange Blind

Size (in.)	Part #	Price
1/2	4853-005	109.20
3/4	4853-007	134.30
1	4853-010	182.40
1 1/2	4853-015	254.60
2	4853-020	425.60
3	4853-030	710.00
4	4853-040	1233.00
6	4853-060	2459.00



Natural Female Adapter

Size (in.)	Part #	Price
1/2	4835-005	58.69
3/4	4835-007	99.18
1	4835-010	131.80
1 1/2	4835-015	220.40
2	4835-020	239.40

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Natural PVDF - Sch. 80



Natural Cap socket

Size (in.)	Part #	Price
1/2	4847-005	60.92
3/4	4847-007	73.64
1	4847-010	80.12
1 1/2	4847-015	120.70
2	4847-020	157.10



Natural Cap threaded

Size (in.)	Part #	Price
1/2	4848-005	52.09
3/4	4848-007	60.05
1	4848-010	73.90
1 1/2	4848-015	115.70
2	4848-020	157.10



Natural Union socket

Size (in.)	Part #	Price
1/2	4897-005	139.40
3/4	4897-007	182.40
1	4897-010	260.90
1 1/2	4897-015	402.70
2	4897-020	594.00



Natural Union threaded

Size (in.)	Part #	Price
1/2	4898-005	142.00
3/4	4898-007	186.20
1	4898-010	267.30
1 1/2	4898-015	420.40
2	4898-020	578.00



Natural Plug threaded

Size (in.)	Part #	Price
1/2	4850-005	71.11
3/4	4850-007	78.64
1	4850-010	88.74
1 1/2	4850-015	135.70
2	4850-020	167.20



Natural Reducer Bushing Spig x Socket

Size (in.)	Part #	Price
3/4x1/2	4837-101	57.28
1x1/2	4837-130	59.89
1x3/4	4837-131	62.52
1 1/2x1	4837-211	101.30
2x1	4837-249	196.40
2x1 1/2	4837-251	196.40
3x2	4837-338	220.40
4x3	4837-422	249.60
6x4	4837-532	874.00



Natural Reducer Bushing MPT x FPT

Size (in.)	Part #	Price
3/4x1/2	4839-101	61.25
1x1/2	4839-130	61.25
1x3/4	4839-131	63.97
1 1/2x1	4839-211	83.38
2x1	4839-249	122.70
2x1 1/2	4839-251	122.70



Natural PVDF Schedule 80 Nipples



Part #	Dia. x Length	Price
4861-077	1/2" x Close	29.34
4861-078	1/2" x Short	34.33
4861-081	1/2" X 3"	41.84
4861-082	1/2" X 4"	45.49
4861-083	1/2" X 5"	51.77
4861-084	1/2" X 6"	62.35

Part #	Dia. x Length	Price
4861-104	3/4" x Close	37.79
4861-105	3/4" X Short	41.84
4861-106	3/4" X 3"	46.04
4861-107	3/4" X 4"	51.77
4861-108	3/4" X 5"	62.35
4861-109	3/4" X 6"	74.48

Part #	Dia. x Length	Price
4861-133	1" x Close	47.09
4861-134	1" X Short	52.99
4861-135	1" X 3"	62.35
4861-136	1" X 4"	75.68
4861-137	1" X 5"	92.01
4861-138	1" X 6"	114.10

Part #	Dia. x Length	Price
4861-213	1 1/2" x Close	69.28
4861-214	1 1/2" X Short	78.64
4861-215	1 1/2" X 3"	105.60
4861-216	1 1/2" X 4"	119.30
4861-217	1 1/2" X 5"	149.50
4861-218	1 1/2" X 6"	182.40

Part #	Dia. x Length	Price
4861-251	2" x Close	81.98
4861-252	2" X Short	118.70
4861-253	2" X 3"	136.80
4861-254	2" X 4"	206.50
4861-255	2" X 5"	257.10
4861-256	2" X 6"	305.30

Hand Fusion Tool



Voltage 110V

For manual joining of socket fusion fittings 16 mm - 50 mm (3/8" - 4").
Thermostatically regulated fusion temperature

Size	1/2" - 2"	3" - 6"
Part #	1564	1565
Purchase Price	$ 494.50	$ 794.65
Deposit	250.00	350.00
Rental - Daily	33.00	33.00
Rental - Weekly	100.00	100.00
Power Consumption	800 W	1650 W



Socket Heat Face Sets

Description	Part #	Price
1/2" Socket Heat Face Set	4820-005	$ 72.95
3/4" Socket Heat Face Set	4820-007	102.20
1" Socket Heat Face Set	4820-010	132.90
1 1/2" Socket Heat Face Set	4820-015	169.70
2" Socket Heat Face Set	4820-020	198.30
3" Socket Heat Face Set	4820-030	480.30
4" Socket Heat Face Set	4820-040	535.00
6" Socket Heat Face Set	4820-060	1723.00

The heat face set consists of a male and female component.
This is a matched set and cannot be ordered separately.

Chemtrol's Thermo-Fusion Socket Heating Times

Size	PP		PVDF	
In (mm)	Time (sec)	Temp (°F)	Time (sec)	Temp (°F)
1/2" (20)	5	495-505	5	495-505
3/4" (25)	5	495-505	5	495-505
1" (32)	5	495-505	5	495-505
1 1/2" (50)	5	495-505	5	495-505
2" (63)	5	495-505	5	495-505
3" (90)	7 - 9	500-510	25 - 35	510-530
4" (110)	12 - 15	500-510	40 - 50	510-530
6"	15 - 20	500-520	50 - 60	540-560

Heating Times start after Pipe and Fitting are completely on Heater Faces.
Chemtrol recommends using a Fusion Machine for sizes 3" and larger.

Red PVDF - Sch. 80



Features

- Less than metals to buy and install.
- Longer product life.
- Resists corrosion.
- Easy to install.

Excellent chemical resistance

Kynar systems resist distortion, retain their strength, and resist most acids, bases and organic solvents to temperatures up to 280°F.

Product & design criteria

- 1/2"- 6" socket and 1/2"- 2" thread
- IPS may be installed above or below ground
- Temperature range 0° - 280°F

Lower installed costs

because it is light in weight, installation requires less time and less equipment than other materials.

3

Red Kynar (PVDF) Pipe

Pipe Size In.	mm	Part #	Price Per Ft.	Approx. Wt./ Per Ft.	Max. W.P. @ 73°F	O.D. (In.)	Minimum Wall Thickness (In.)
1/2	12.7	6500-005	$ 24.27	0.257	580	.840	.147
3/4	19.05	6500-007	32.07	0.348	470	1.050	.154
1	25.4	6500-010	47.08	0.511	430	1.315	.179
1 1/2	38.1	6500-015	76.92	0.858	320	1.900	.200
2	50.8	6500-020	104.30	1.187	270	2.375	.218
3	76.2	6500-030	237.00	2.461	250	3.500	.300
4	101.6	6500-040	321.20	3.596	220	4.500	.337
6	152.4	6500-060	661.00	6.858	190	6.625	.432



Red 90° Ell socket

Size (in.)	Part #	Price
1/2	3806-005	60.12
3/4	3806-007	88.18
1	3806-010	99.75
1 1/2	3806-015	153.40
2	3806-020	188.70
3	3806-030	433.10
4	3806-040	755.00
6	3806-060	2070.00



Red 90° Ell threaded

Size (in.)	Part #	Price
1/2	3808-005	61.53
3/4	3808-007	71.93
1	3808-010	103.70
1 1/2	3808-015	159.70
2	3808-020	220.40



Red 45° Ell socket

Size (in.)	Part #	Price
1/2	3817-005	81.43
3/4	3817-007	85.42
1	3817-010	107.00
1 1/2	3817-015	153.40
2	3817-020	188.70
3	3817-030	447.00
4	3817-040	736.00
6	3817-060	2425.00



Red 45° Ell threaded

Size (in.)	Part #	Price
1/2	3819-005	60.12
3/4	3819-007	90.23
1	3819-010	103.70
1 1/2	3819-015	159.70
2	3819-020	220.40



Red Teel socket

Size (in.)	Part #	Price
1/2	3801-005	68.79
3/4	3801-007	114.30
1	3801-010	123.10
1 1/2	3801-015	201.30
2	3801-020	297.70
3	3801-030	549.00
4	3801-040	958.00
6	3801-060	2454.00



Red Tee threaded

Size (in.)	Part #	Price
1/2	3805-005	70.38
3/4	3805-007	81.02
1	3805-010	128.00
1 1/2	3805-015	205.30
2	3805-020	280.00



Red Coupling socket

Size (in.)	Part #	Price
1/2	3829-005	53.72
3/4	3829-007	69.27
1	3829-010	80.99
1 1/2	3829-015	120.10
2	3829-020	187.50
3	3829-030	297.70
4	3829-040	509.00
6	3829-060	1628.00



Red Coupling threaded

Size (in.)	Part #	Price
1/2	3830-005	54.97
3/4	3830-007	61.12
1	3830-010	82.88
1 1/2	3830-015	111.30
2	3830-020	185.10



Red Flange socket

Size (in.)	Part #	Price
1/2	3851-005	83.77
3/4	3851-007	100.40
1	3851-010	135.70
1 1/2	3851-015	190.60
2	3851-020	402.70
3	3851-030	589.00
4	3851-040	968.00
6	3851-060	1929.00



Red Flange threaded

Size (in.)	Part #	Price
1/2	3852-005	104.20
3/4	3852-007	128.00
1	3852-010	201.30
1 1/2	3852-015	266.00
2	3852-020	420.40



Red Flange Blind

Size (in.)	Part #	Price
1/2	3853-005	81.47
3/4	3853-007	100.40
1	3853-010	135.70
1 1/2	3853-015	197.70
2	3853-020	402.70
3	3853-030	673.00
4	3853-040	1149.00
6	3853-060	2295.00



Red Female Adapter

Size (in.)	Part #	Price
1/2	3835-005	57.31
3/4	3835-007	94.70
1	3835-010	126.30
1 1/2	3835-015	207.70
2	3835-020	221.80

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Red PVDF - Sch. 80



Red Cap socket

Size (in.)	Part #	Price
1/2	3847-005	58.08
3/4	3847-007	70.27
1	3847-010	83.48
1 1/2	3847-015	115.20
2	3847-020	149.50



Red Cap threaded

Size (in.)	Part #	Price
1/2	3848-005	49.71
3/4	3848-007	57.31
1	3848-010	70.60
1 1/2	3848-015	110.40
2	3848-020	149.50



Red Union socket

Size (in.)	Part #	Price
1/2	3897-005	133.10
3/4	3897-007	173.50
1	3897-010	253.30
1 1/2	3897-015	381.20
2	3897-020	567.00



Red Union threaded

Size (in.)	Part #	Price
1/2	3898-005	135.70
3/4	3898-007	178.70
1	3898-010	258.40
1 1/2	3898-015	399.00
2	3898-020	548.00



Red Plug threaded

Size (in.)	Part #	Price
1/2	3850-005	67.96
3/4	3850-007	75.02
1	3850-010	84.68
1 1/2	3850-015	129.30
2	3850-020	158.40



Red Reducer Bushing Spig x Socket

Size (in.)	Part #	Price
3/4x1/2	3837-101	55.97
1x1/2	3837-130	58.49
1x3/4	3837-131	59.74
1 1/2x1	3837-211	98.93
2x1	3837-249	193.80
2x1 1/2	3837-251	193.80
3x2	3837-338	202.80
4x3	3837-422	234.40
6x4	3837-532	832.00



Red Reducer Bushing MPT x FPT

Size (in.)	Part #	Price
3/4x1/2	3839-101	58.49
1x1/2	3839-130	58.49
1x3/4	3839-131	61.11
1 1/2x1	3839-211	79.56
2x1	3839-249	117.00
2x1 1/2	3839-251	117.00



Red PVDF Schedule 80 Nipples

Part #	Dia. x Length	Price
3861-077	1/2" x Close	29.23
3861-078	1/2" x Short	32.75
3861-081	1/2" X 3"	39.93
3861-082	1/2" X 4"	43.29
3861-083	1/2" X 5"	49.29
3861-084	1/2" X 6"	59.35

Part #	Dia. x Length	Price
3861-104	3/4" x Close	35.99
3861-105	3/4" X Short	39.93
3861-106	3/4" X 3"	43.82
3861-107	3/4" X 4"	49.29
3861-108	3/4" X 5"	59.35
3861-109	3/4" X 6"	70.93

Part #	Dia. x Length	Price
3861-213	1 1/2" x Close	65.98
3861-214	1 1/2" X Short	74.86
3861-215	1 1/2" X 3"	91.42
3861-216	1 1/2" X 4"	113.60
3861-217	1 1/2" X 5"	142.00
3861-218	1 1/2" X 6"	173.50



Part #	Dia. x Length	Price
3861-133	1" x Close	43.82
3861-134	1" X Short	50.49
3861-135	1" X 3"	59.35
3861-136	1" X 4"	72.12
3861-137	1" X 5"	87.60
3861-138	1" X 6"	108.70

Part #	Dia. x Length	Price
3861-251	2" x Close	76.30
3861-252	2" X Short	130.50
3861-253	2" X 3"	158.40
3861-254	2" X 4"	197.70
3861-255	2" X 5"	240.70
3861-256	2" X 6"	287.50



Voltage 110V

Hand Fusion Tool

For manual joining of socket fusion fittings 16 mm-110 mm (3/8" - 4"). Thermostatically regulated fusion temperature

Size	1/2" - 2"	3" - 6"
Part #	1564	1565
Purchase Price	$ 494.50	$ 794.65
Deposit	250.00	350.00
Rental - Daily	33.00	33.00
Rental - Weekly	100.00	100.00
Power Consumption	800 W	1650 W



Socket Heat Face Sets		
Description	Part #	Price
1/2" Socket Heat Face Set	4820-005	$ 72.95
3/4" Socket Heat Face Set	4820-007	102.20
1" Socket Heat Face Set	4820-010	132.90
1 1/2" Socket Heat Face Set	4820-015	169.70
2" Socket Heat Face Set	4820-020	198.30
3" Socket Heat Face Set	4820-030	480.30
4" Socket Heat Face Set	4820-040	535.00
6" Socket Heat Face Set	4820-060	1723.00

The heat face set consists of a male and female component. This is a matched set and cannot be ordered separately.

Chemtrol's Thermo-Fusion Socket Heating Times				
Size	PP		PVDF	
In (mm)	Time (sec)	Temp (°F)	Time (sec)	Temp (°F)
1/2" (20)	5	495-505	5	495-505
3/4" (25)	5	495-505	5	495-505
1" (32)	5	495-505	5	495-505
1 1/2" (50)	5	495-505	5	495-505
2" (63)	5	495-505	5	495-505
3" (90)	7 - 9	500-510	25 - 35	510-530
4" (110)	12 - 15	500-510	40 - 50	510-530
6"	15 - 20	500-520	50 - 60	540-560

Heating Times start after Pipe and Fitting are completely on Heater Faces. Chemtrol recommends using a Fusion Machine for sizes 3" and larger.

LXT® Clear Ultra Pure Pipe and Fittings



LXT® Clear Ultra Pure Piping Systems provide a cost-effective alternative to other piping system materials typically used for purified lab water applications. Lower material costs combined with fast, reliable installation greatly reduce installation costs - resulting in significant savings without jeopardizing water quality.

In addition to significant cost savings, LXT® piping systems offer several other advantages for purified water applications. These include low-extractable contaminants, smooth interior walls, strong Schedule 80 dimensions, specialty one-step solvent-cement joining system that cures fast, and unique translucency for visual inspection of joint integrity.

Advantages:

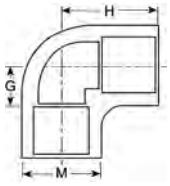
- Complete line of pipe, fittings and valves IPS Sizes 1/2" - 6" diameters
- Strong Schedule 80 dimensions for pressure service
- Advanced LXT® (low-extractable) material significantly reduces leachable contamination compared to conventional PVC.
- Smooth interior walls can reduce particle contaminants
- Fast, reliable installation with simple, inexpensive joining methods
- Proprietary one-step fast-setting joining method reduces TOC contamination and rinses up quickly
- Unique blue translucency enables visual inspection of joint integrity
- Good chemical/corrosion resistance, high-impact strength, low thermal conductivity
- Bagged, sealed, and boxed on-line for use in purified environments
- High quality
- Low maintenance
- Cost effective

Size (in)	Average O.D. (in	Average I.D. (in)	Min. Wall (in)	Lbs per Foot	Max Water PSI	Part #	Price $ Per Ft.
1/2	0.840	0.528	0.147	0.202	420	LXT-005	5.61
3/4	1.050	0.724	0.154	0.273	340	LXT-007	7.60
1	1.315	0.935	0.179	0.402	320	LXT-010	11.20
1 1/4	1.660	1.256	0.191	0.554	260	LXT-012	15.49
1 1/2	1.900	1.476	0.200	0.673	240	LXT-015	18.75
2	2.375	1.913	0.218	0.932	200	LXT-020	25.99
3	3.500	2.864	0.300	1.903	190	LXT-030	53.03
4	4.500	3.786	0.337	2.782	160	LXT-040	77.53
6	6.625	5.709	0.432	5.313	140	LXT-060	179.75



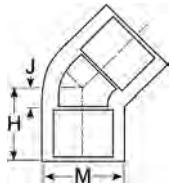
LXT® One Step Cement

Size	Part #	Price $
Pint	LXT5-020	33.60
Quart	LXT5-030	54.19



90° Elbow (S x S)

Size (in)	G (in)	H (in)	M (in)	Part #	Price $
1/2	9/16	1 15/32	1 3/16	LXT806-005	5.26
3/4	11/16	1 11/16	1 7/16	LXT806-007	6.28
1	13/16	1 31/32	1 23/32	LXT806-010	12.45
1 1/4	1 1/32	2 5/16	1 31/32	LXT806-012	19.88
1 1/2	1 3/32	2 15/32	2 11/32	LXT806-015	29.43
2	1 7/16	2 15/16	2 7/8	LXT806-020	49.71
3	2 1/16	3 31/32	4 5/32	LXT806-030	127.46
4	2 19/32	4 27/32	5 1/4	LXT806-040	235.32
6	3 23/32	6 3/4	7 19/32	LXT806-060	352.97

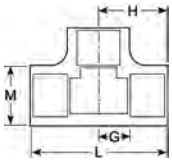


45° Elbow (S x S)

Size (in)	H (in)	J (in)	M (in)	Part #	Price $
1/2	1 1/8	1/4	1 3/16	LXT817-005	8.41
3/4	1 11/32	11/32	1 13/32	LXT817-007	11.51
1	1 7/16	11/32	1 23/32	LXT817-010	13.80
1 1/4	1 11/16	13/32	2 3/32	LXT817-012	23.99
1 1/2	1 27/32	7/16	2 3/8	LXT817-015	26.60
2	2 5/32	21/32	2 7/8	LXT817-020	42.02
3	2 27/32	31/32	4 1/8	LXT817-030	158.06
4	3 3/8	1 3/32	5 1/4	LXT817-040	230.56
6	4 7/8	1 7/8	7 9/16	LXT817-060	345.86

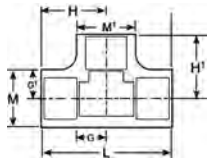
LXT® Clear Ultra Pure

LXT® Clear Ultra Pure Fittings



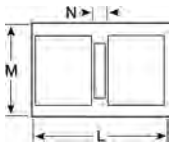
Tee (S x S x S)

Size (in)	G (in)	H (in)	L (in)	M (in)	Part #	Price $
1/2	9/16	1 1/2	2 15/16	1 3/16	LXT801-005	8.47
3/4	11/16	1 11/16	3 3/8	1 13/32	LXT801-007	10.36
1	27/32	2	4	1 11/16	LXT801-010	15.27
1 1/4	7/8	2 1/8	4 1/4	2 3/32	LXT801-012	23.79
1 1/2	1 5/32	2 9/16	5 1/8	2 5/16	LXT801-015	35.73
2	1 7/16	2 15/16	5 7/8	2 7/8	LXT801-020	56.72
3	2 1/16	3 31/32	7 15/16	4 7/32	LXT801-030	163.88
4	2 5/8	4 7/8	9 3/4	5 1/4	LXT801-040	274.01
6	3 13/16	6 13/16	13 5/8	7 5/8	LXT801-060	411.02



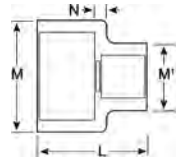
Reducing Tee (S x S x S)

Size (in)	G (in)	G1 (in)	H (in)	H1 (in)	L (in)	M (in)	M1 (in)	Part #	Price $
1 x 1 x 3/4	23/32	27/32	1 27/32	1 27/32	3 11/16	1 11/16	1 3/8	LXT801-131	14.25
1 1/2 x 1 1/2 x 1	7/8	1 3/16	2 1/4	2 5/16	4 1/2	2 3/8	1 11/16	LXT801-211	30.97
2 x 2 x 1	7/8	1 7/16	2 3/8	2 9/16	4 3/4	2 7/8	1 3/4	LXT801-249	39.20
2 x 2 x 1 1/2	1 3/16	1 7/16	2 11/16	2 13/16	5 3/8	2 7/8	2 3/8	LXT801-251	39.20
3 x 3 x 2	1 1/2	1 15/32	3 5/16	3 11/32	6 5/8	4 3/16	2 7/8	LXT801-338	71.87
4 x 4 x 3	2 1/16	2 21/32	4 11/32	4 15/32	8 11/16	5 7/32	4 3/16	LXT801-422	116.20
6 x 6 x 3	2 11/16	4 9/16	5 9/16	6 3/8	11 1/8	7 1/2	5 3/16	LXT801-530	493.01
6 x 6 x 4	2 11/16	3 3/4	5 9/16	5 15/16	11 1/8	7 1/2	5 1/4	LXT801-532	493.01



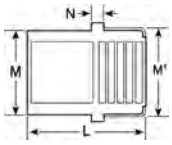
Coupling (S x S)

Size (in)	L (in)	M (in)	N (in)	Part #	Price $
1/2	1 7/8	1 3/16	1/8	LXT829-005	3.79
3/4	2 1/8	1 13/32	1/8	LXT829-007	4.36
1	2 3/8	1 23/32	1/8	LXT829-010	8.00
1 1/4	2 23/32	2 7/32	7/32	LXT829-012	12.06
1 1/2	2 7/8	2 11/32	3/32	LXT829-015	24.88
2	3 1/8	2 7/8	1/16	LXT829-020	35.73
3	4	4 3/16	3/16	LXT829-030	58.12
4	4 3/4	5 5/16	1/4	LXT829-040	105.73
6	6 1/4	7 11/16	1/4	LXT829-060	224.46



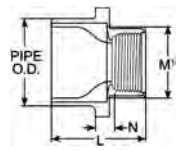
Reducer Coupling (S x S)

Size (in)	L (in)	M (in)	M1 (in)	N (in)	Part #	Price $
3/4 x 1/2	1 13/32	1 13/32	1 3/16	7/32	LXT829-101	10.11
1 x 3/4	2 13/32	1 23/32	1 13/32	1/4	LXT829-131	14.72
1 1/4 x 1	2 23/32	2 3/32	1 23/32	3/8	LXT829-168	29.89
1 1/2 x 1	2 7/8	2 11/32	1 15/16	3/8	LXT829-211	31.35
1 1/2 x 1 1/4	2 13/16	2 3/8	2 3/32	5/32	LXT829-212	38.74
2 x 1	3 1/8	2 7/8	1 23/32	17/32	LXT829-249	35.37
2 x 1 1/2	3 7/32	2 27/32	2 11/32	7/32	LXT829-251	35.37
3 x 2	4	4 5/32	2 27/32	11/16	LXT829-338	86.77
4 x 2	4 5/8	5 9/32	2 7/8	13/16	LXT829-420	165.42
4 x 3	4 5/8	5 1/4	4 1/8	1/2	LXT829-422	159.19
6 x 4	6 5/8	7 5/8	5 5/16	1 7/16	LXT829-532	610.11



Female Adapter SS Reinforced (S x SR Fipt)

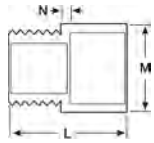
Size (in)	L (in)	M (in)	M1 (in)	N (in)	Part #	Price $
1/2	1 3/4	1 5/32	1 3/16	3/16	LXT835-005	7.85
3/4	1 7/8	1 13/32	1 3/8	1/8	LXT835-007	9.63
1	2 5/32	1 23/32	1 23/32	3/32	LXT835-010	15.49
1 1/4	2 5/16	2 1/8	2 1/16	3/16	LXT835-012	20.00
1 1/2	2 7/16	2 13/32	2 7/16	7/32	LXT835-015	25.02
2	2 11/16	3	3 3/32	9/32	LXT835-020	47.43
3	3 1/2	4 1/4	4 9/32	7/32	LXT835-030	64.14
4	3 31/32	5 7/32	5 7/32	1/4	LXT835-040	102.93



Reducing Female Adapter SS Reinforced (Spig x SR Fipt)

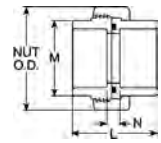
Size (in)	L (in)	M1 (in)	N (in)	Part #	Price $
1/2 x 1/4	1 13/32	27/32	3/16	LXT878-072	15.66
3/4 x 1/4	1 27/32	27/32	9/32	LXT878-098	21.64
1 x 1/4	2 3/8	27/32	21/32	LXT878-128	22.25

LXT® Clear Ultra Pure Fittings



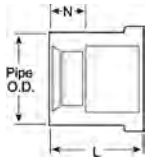
Male Adapter (Mipt x S)

Size (in)	L (in)	M (in)	N (in)	Part #	Price $
1/2	1 13/16	1 3/16	3/16	LXT836-005	9.62
3/4	1 29/32	1 13/32	1/4	LXT836-007	10.64
1	2 1/4	1 3/4	7/32	LXT836-010	18.43
1 1/4	2 1/2	2 1/8	9/32	LXT836-012	21.54
1 1/2	2 9/16	2 13/32	1/4	LXT836-015	30.97
2	2 23/32	2 29/32	9/32	LXT836-020	44.76
3	3 23/32	4 7/32	3/8	LXT836-030	70.61
4	4 3/8	5 3/16	1/2	LXT836-040	100.43



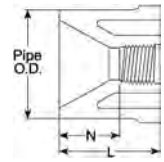
Union (S x S)

Size (in)	L (in)	M (in)	N (in)	Nut O.D. (in)	EPDM Part #	Price $	FPM Part #	Price $
1/2	2 3/32	1 9/32	11/32	1 31/32	LXT897-005	14.49	LXT857-005	17.80
3/4	2 3/8	1 17/32	11/32	2 1/2	LXT897-007	18.19	LXT857-007	21.72
1	2 9/16	1 27/32	3/8	2 7/8	LXT897-010	23.79	LXT857-010	30.11
1 1/4	2 7/8	2 7/32	3/8	3 5/16	LXT897-012	34.32	LXT857-012	40.62
1 1/2	3 3/32	2 9/16	15/32	3 9/16	LXT897-015	46.93	LXT857-015	56.72
2	3 5/8	3 1/32	9/16	4 3/16	LXT897-020	70.74	LXT857-020	86.14
3	4 1/4	4 3/16	1/2	6 5/32	LXT897-030	119.82	LXT857-030	146.08
4	5 1/8	5 1/4	5/8	7 3/4	LXT897-040	165.78	LXT857-040	202.20



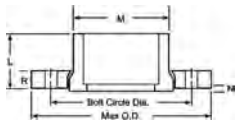
Reducer Bushing (Spig x S)

Size (in)	L (in)	N (in)	Part #	Price $
3/4 x 1/2	1 1/8	3/8	LXT837-101	5.73
1 x 1/2	1 5/8	13/32	LXT837-130	8.44
1 x 3/4	1 1/4	1/4	LXT837-131	8.44
1 1/4 x 1/2	1 9/16	21/32	LXT837-166	11.98
1 1/4 x 1	1 19/32	15/32	LXT837-168	11.98
1 1/2 x 3/4	1 3/4	11/16	LXT837-210	16.31
1 1/2 x 1	1 17/32	13/32	LXT837-211	16.31
1 1/2 x 1 1/4	1 9/16	5/16	LXT837-212	16.31
2 x 1	1 29/32	13/16	LXT837-249	23.28
2 x 1 1/2	1 3/4	11/32	LXT837-251	23.28
3 x 2	2 27/32	9/16	LXT837-338	63.99
4 x 3	2 21/32	25/32	LXT837-422	110.77
6 x 4	4	1 23/32	LXT837-532	175.98



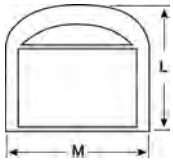
Reducer Bushing (Spig x Fipt)

Size (in)	L (in)	N (in)	Part #	Price $
1/2 x 1/4	1	7/8	LXT838-072	7.33
1/2 x 3/8	1 3/32	17/32	LXT838-073	7.33
3/4 x 1/4	1 7/32	5/8	LXT838-098	4.84
3/4 x 1/2	1 1/4	7/16	LXT838-101	4.84
1 x 3/8	1 13/32	19/32	LXT838-129	7.62
1 x 1/2	1 5/32	21/32	LXT838-130	7.62
1 x 3/4	1 3/8	21/32	LXT838-131	7.62
1 1/2 x 3/4	1 3/4	31/32	LXT838-210	20.02
1 1/2 x 1	1 11/16	11/16	LXT838-211	20.02



Vanstone Style Flange (S - Two Piece)

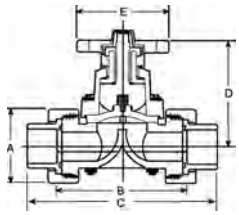
Size (in)	L (in)	M (in)	N (in)	R (in)	Bolt Cir. Dia. (in)	Bolt Size (in)	Max O.D. (in)	Part #	Price $
1/2	1 1/32	1 7/32	5/32	17/32	2 3/8	1/2	3 1/2	LXT854-005	24.97
3/4	1 1/8	1 7/16	5/32	9/16	2 3/4	1/2	3 7/8	LXT854-007	26.73
1	1 9/32	1 3/4	5/32	5/8	3 1/8	1/2	4 1/4	LXT854-010	29.75
1 1/4	1 13/32	2 5/32	5/32	11/16	3 1/2	1/2	4 5/8	LXT854-012	30.66
1 1/2	1 17/32	2 7/16	3/16	3/4	3 7/8	1/2	5	LXT854-015	31.31
2	1 11/16	2 15/16	3/16	13/16	4 3/4	5/8	6	LXT854-020	41.61
3	2 1/8	4 1/4	1/4	1 1/16	6	5/8	7 1/2	LXT854-030	71.06
4	2 1/2	5 1/4	1/4	1 1/8	7 1/2	5/8	9	LXT854-040	89.87
6	3 3/8	7 9/16	7/16	1 9/32	9 1/2	3/4	11	LXT854-060	201.32



Cap (S)

Size (in)	L (in)	M (in)	Part #	Price $
1/2	1 7/32	1 3/16	LXT847-005	8.12
3/4	1 13/32	1 3/8	LXT847-007	8.49
1	1 19/32	1 11/16	LXT847-010	15.12
1 1/4	1 27/32	2 3/32	LXT847-012	18.25
1 1/2	2	2 11/32	LXT847-015	26.07
2	2 9/32	2 27/32	LXT847-020	36.05
3	3 1/32	4 5/32	LXT847-030	86.17
4	3 9/16	5 7/32	LXT847-040	145.28
6	4 7/8	7 1/2	LXT847-060	490.98

LXT® Clear Ultra Pure Valves

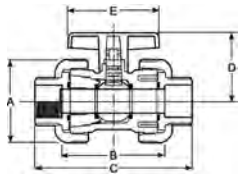


True Union Diaphragm Valve / EPDM / PTFE Diaphragm

Size (in)	A (in)	B (in)	C (in)	D (in)	E (in)	Part #	Price $
1/2	1 15/16	3 7/8	3 11/32	5 3/16	2 7/8	LXT2729-005	301.14
3/4	2 1/2	4 1/2	3 3/4	5 15/16	3 1/8	LXT2729-007	323.54
1	2 9/16	4 15/16	4 7/16	6 13/16	3 3/8	LXT2729-010	378.16
1 1/4	3 5/16	5 1/2	5 5/8	8 1/4	3 7/8	LXT2729-012	511.22
1 1/2	3 17/32	6 5/16	5 5/8	8 7/16	4 5/8	LXT2729-015	620.47
2	4 7/32	7 1/2	7	9 1/2	6 5/8	LXT2729-020	815.17

Diaphragm Valves
LXT® diaphragm valves are engineered to provide accurate throttling control and shut-off, utilizing a positive-stop, non-rising stem. The Weir-type design incorporates a PTFE diaphragm for maintaining purity, and uses EPDM o-ring seals on the union connections. Low-profile True Union design minimizes space while allowing for ease of installation and maintenance. Valves are supplied with both socket and threaded-end connectors for versatility. They incorporate a built-in position indicator, and are operated with a high-impact, hand-wheel-style handle for easy operation.

LXT® diaphragm valves are available in sizes 1/2" through 2" and carry a maximum pressure rating of 150 psi, non-shock @ 73°F.

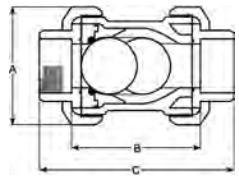


True Union Ball Valve

Size (in)	A (in)	B (in)	C (in)	D (in)	E (in)	EPDM Part #	Price $	FPM Part #	Price $
1/2	1 7/8	2 3/8	4 3/16	2 9/16	2 13/16	LXT2329-005	109.11	LXT2339-005	127.42
3/4	2 1/4	2 3/4	4 3/4	2 7/8	3 3/8	LXT2329-007	133.71	LXT2339-007	150.73
1	2 1/2	2 7/8	5 1/8	3 1/8	3 7/16	LXT2329-010	169.63	LXT2339-010	204.20
1 1/4	3 1/16	3 1/4	5 3/4	3 5/8	3 7/8	LXT2329-012	224.86	LXT2339-012	284.89
1 1/2	3 1/2	3 1/2	6 1/4	4	4 3/16	LXT2329-015	294.06	LXT2339-015	373.09
2	4 1/4	4 3/4	7 3/4	4 1/2	5 1/8	LXT2329-020	415.15	LXT2339-020	488.35
3	6 3/16	7	10 11/16	5 7/8	7 5/8	LXT2329-030	768.19	LXT2339-030	949.09
4	7 5/8	7 5/16	11 7/8	6 3/4	9 3/16	LXT2329-040	1298.68	LXT2339-040	1603.58

Ball Valves
LXT® quarter-turn true union ball valves incorporate the same high degree of unique engineering design characteristics. Among these characteristics are heavy-bodied construction with strong buttress threads, full Schedule 80 bore to minimize pressure drop, PTFE floating seat design to minimize seat wear, EPDM or FPM o-ring seals, Safe-T-Shear® stem, socket and threaded-end connectors, and True Union design for ease of installation and maintenance.

LXT® ball valves are available in sizes 1/2" through 4". 1/2" through 2" T.U. ball valves carry a maximum pressure rating of 235 psi, non-shock @ 73°F. 3" and 4" carry a maximum pressure rating of 150 psi, non-shock at 73°F.



True Union Ball Check Valve

Size (in)	A (in)	B (in)	C (in)	EPDM Part #	Price $	FPM Part #	Price $
1/2	1 7/8	2 7/16	4	LXT2229-005	159.71	LXT2239-005	176.99
3/4	2 1/4	2 3/4	4	LXT2229-007	192.94	LXT2239-007	212.89
1	2 1/2	2 7/8	5	LXT2229-010	220.87	LXT2239-010	239.76
1 1/4	3 1/16	3 1/4	5	LXT2229-012	391.19	LXT2239-012	405.82
1 1/2	3 1/2	3 1/2	6	LXT2229-015	413.82	LXT2239-015	439.32
2	4 1/4	4 3/4	7	LXT2229-020	691.92	LXT2239-020	718.54
3	6 3/16	6 7/8	10	LXT2229-030	971.36	LXT2239-030	1034.60
4	7 5/8	7 1/4	11	LXT2229-040	1822.13	LXT2239-040	1919.79

Ball Check Valves
LXT® true union ball check valves incorporate the same high degree of unique engineering design characteristics as the true union ball valves.

LXT® true union ball check valves sizes 1/2" - 2" carry a maximum pressure rating of 235 psi for water, non-shock, @ 73°F. LXT® true union ball check valves sizes 3" and 4" carry a maximum pressure rating of 150 psi for water, non-shock, @73°F. 3" and 4" Valves come socket only.

ALSCO™ PTFE Pipe System - Threaded

FLUOR-O-FLO™ Virgin PTFE Piping System Schedule 80, NPT



Features:
- Solid virgin TFE
- Fittings are made from special virgin PTFE, MICROFLON™ to maximize creep resistance
- 1/8" to 4" sizes
- Extreme corrosion resistance quality
- High purity & temperature capability
- A more cost effective solution to severe corrosion problems

Applications:
- Low pressure Laboratory
- Process Industry

Application advantages:
- Less expensive than TFE lined pipe piping systems
- Easier to cut to length and install
- Easier to reuse
- Available in smaller pipe sizes

3

** Pipe Price Per Foot*



Virgin Pipe * PE - 8ft lgth

Size (in.)	Part #	Price
1/8	7100-001	9.15
1/4	7100-002	11.58
3/8	7100-003	17.65
1/2	7100-005	25.44
3/4	7100-007	29.19
1	7100-010	38.98
1 1/4	7100-012	53.32
1 1/2	7100-015	62.46
2	7100-020	105.10
2 1/2	7100-025	146.64
3	7100-030	235.47
4	7100-040	291.51



Virgin Coupling threaded

Size (in.)	Part #	Price
1/8	7101-001	20.77
1/4	7101-002	23.88
3/8	7101-003	33.78
1/2	7101-005	45.61
3/4	7101-007	60.17
1	7101-010	74.84
1 1/4	7101-012	93.54
1 1/2	7101-015	109.78
2	7101-020	140.49
2 1/2	7101-025	190.21
3	7101-030	260.50
4	7101-040	355.55



Virgin 90° Elbow threaded

Size (in.)	Part #	Price
1/8	7102-001	25.07
1/4	7102-002	29.94
3/8	7102-003	41.92
1/2	7102-005	56.42
3/4	7102-007	81.76
1	7102-010	136.74
1 1/4	7102-012	193.56
1 1/2	7102-015	245.65
2	7102-020	403.10
2 1/2	7102-025	544.74
3	7102-030	871.44
4	7102-040	1546.19



Virgin Tee threaded

Size (in.)	Part #	Price
1/8	7103-001	33.40
1/4	7103-002	37.44
3/8	7103-003	52.39
1/2	7103-005	70.31
3/4	7103-007	102.51
1	7103-010	172.17
1 1/4	7103-012	230.99
1 1/2	7103-015	294.79
2	7103-020	483.40
2 1/2	7103-025	653.70
3	7103-030	1102.25
4	7103-040	2705.85



Virgin 45° Elbow threaded

Size (in.)	Part #	Price
1/8	7104-001	37.60
1/4	7104-002	44.93
3/8	7104-003	62.86
1/2	7104-005	84.64
3/4	7104-007	122.64
1	7104-010	205.12
1 1/4	7104-012	290.34
1 1/2	7104-015	368.47
2	7104-020	604.64
2 1/2	7104-025	816.80
3	7104-030	1307.17
4	7104-040	2319.29



Virgin Union threaded

Size (in.)	Part #	Price
1/8	7105-001	78.95
1/4	7105-002	99.98
3/8	7105-003	146.16
1/2	7105-005	167.48
3/4	7105-007	246.63
1	7105-010	311.64
1 1/4	7105-012	364.39
1 1/2	7105-015	420.82
2	7105-020	565.86
2 1/2	7105-025	705.76
3	7105-030	864.13
4	7105-040	1105.16



Virgin Plug threaded

Size (in.)	Part #	Price
1/8	7106-001	17.28
1/4	7106-002	19.53
3/8	7106-003	24.07
1/2	7106-005	27.17
3/4	7106-007	36.64
1	7106-010	50.97
1 1/4	7106-012	67.29
1 1/2	7106-015	81.71
2	7106-020	110.83
2 1/2	7106-025	144.58
3	7106-030	191.82
4	7106-040	263.72



Virgin Cap threaded

Size (in.)	Part #	Price
1/8	7107-001	29.18
1/4	7107-002	32.94
3/8	7107-003	40.87
1/2	7107-005	46.03
3/4	7107-007	63.66
1	7107-010	94.53
1 1/4	7107-012	117.05
1 1/2	7107-015	145.57
2	7107-020	193.53
2 1/2	7107-025	254.43
3	7107-030	328.69
4	7107-040	433.02



PTFE (Virgin TFE) Bulkhead Fitting

Note: Hole through tank wall should be equal to or up to 1/32" larger than the nominal body OD.

Size Inch	Nominal Body OD	Hole Size	PTFE Part #	PTFE Price
1/8	1 1/8	1 5/32	7123	$ 126.06
1/4	1 3/16	1 7/32	7124	144.20
3/8	1 9/32	1 5/16	7125	179.09
1/2	1 1/2	1 17/32	7126	207.61
3/4	1 3/16	1 27/32	7127	239.78
1	2 1/6	2 3/32	7128	304.20
1 1/4	2 3/8	2 13/32	7129	347.27
1 1/2	2 5/8	2 21/32	7130	396.92
2	3 1/8	3 5/32	7131	433.53
2 1/2	3 5/8	3 21/32	7132	543.64
3	4 1/2	4 17/32	7133	685.81
4	5 1/2	5 17/32	7134	985.90



Virgin Flange 150# threaded

Size (in.)	Part #	Price
1/2	7108-005	95.77
3/4	7108-007	98.77
1	7108-010	104.66
1 1/4	7108-012	116.86
1 1/2	7108-015	128.63
2	7108-020	175.57
2 1/2	7108-025	252.09
3	7108-030	263.59
4	7108-040	348.06



Virgin Nipple TBE

Size (in.)	Part #	Price
1/8xSh	7111-015	23.56
1/4xSh	7112-015	25.50
3/8xSh	7113-015	28.27
1/2xSh	7114-015	31.33
3/4xSh	7115-020	33.07
1x3	7116-030	55.57
1 1/4x3	7117-030	65.34
1 1/2x3	7118-030	72.11
-	-	-
-	-	-
3x6	7121-060	238.65
4x6	7122-060	304.77



Virgin Red. Coupling threaded

Size (in.)	Part #	Price
1/4x1/8	7109-049	33.47
3/8x1/8	7109-051	47.64
3/8x1/4	7109-052	44.93
1/2x1/4	7109-072	64.29
1/2x3/8	7109-073	60.68
3/4x3/8	7109-099	84.12
3/4x1/2	7109-101	80.03
1x1/2	7109-130	103.82
1x3/4	7109-131	99.55
1 1/2x3/4	7109-210	167.80
1 1/2x1	7109-211	164.40
2x1	7109-249	227.42
2x1 1/2	7109-251	218.13
3x1 1/2	7109-337	311.68
3x2	7109-338	305.97
4x2	7109-420	422.17
4x3	7109-422	408.10



Virgin Red. Bushing MPT x FPT

Size (in.)	Part #	Price
1/4x1/8	7110-049	23.98
3/8x1/8	7110-051	32.86
3/8x1/4	7110-052	31.78
1/2x1/4	7110-072	43.51
1/2x3/8	7110-073	41.15
3/4x3/8	7110-099	55.84
3/4x1/2	7110-101	52.75
1x1/2	7110-130	70.07
1x3/4	7110-131	66.18
1 1/2x3/4	7110-210	85.22
1 1/2x1	7110-211	81.80
2x1	7110-249	118.01
2x1 1/2	7110-251	110.62
3x1 1/2	7110-337	239.09
3x2	7110-338	233.17
4x2	7110-420	343.19
4x3	7110-422	334.02

ALSCO Industrial Products, Inc. · 1265 Mount Vernon Rd. · Lithia Springs, GA. 30122 · FAX 770-739-7549
770-941-3030 · 1-800-849-3030 · www.alscoplastics.com · 012119

COOL-FIT ABS Plus

GF COOL-FIT ABS Plus Pipe



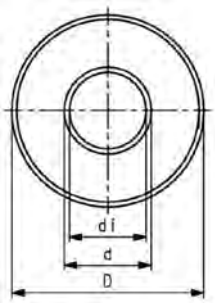
COOL-FIT ABS Plus is a completely pre-insulated plastic pipe system for secondary cooling and refrigeration systems operated with brine or glycol solutions. The system is based on proven and cold-shock resistant ABS pipe and fittings, which are insulated with high-quality PUR foam in addition to a robust and UV-resistant outer pipe. The smooth inner surface of the ABS pipe provides for minimal pressure loss, while the low thermal conductivity of plastic and the insulation ensures low energy and running costs for a lifetime. The 3-in-1 construction also reduces installation time to a minimum. COOL-FIT is ideal for use in cold storage, in food and beverage production (e.g. in breweries, dairies, slaughterhouses), in supermarkets as well as for process cooling in industrial cooling water systems or in data centers.

Advantages:
- Simple and cost-effective installation; reduced costs for pipe hanging
- No corrosion
- Top quality and efficient, maintenance-free system
- Reduced energy consumption as well as resource conservation
- Environmentally friendly
- High impact resistance, even at very low temperatures
- Temperatures are maintained accurately due to low heat conductivity
- Suitable for outdoor applications: UV and weathering resistant
- Water and vapor tight
- You can adapt the system to your particular needs
- Light weight

Technical Data:
- Size Range: d25 - d315 mm (¾" - 12")
- Pressure Rating: PN10 (up to 150 PSI)
- Operating Temperature: -50°C to 40°C (-58°F to 104°F)
- Joining Technology: Solvent (Cement) Weld
- Standard Ratings: ISO 15493, DIN 3441
- Materials: Acrylonitrile-Butadiene-Styrene (ABS), GF PE100 Industrial Polyethylene (PE), Polyurethane Rigid Foam Insulation (PUR)

Fields of Application:
- Breweries
- Supermarkets
- Food Processing
- Cold Stores
- HVAC
- Dairies
- Industrial Chilled Water





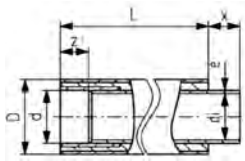
ABS Metric Pre-Insulated Pipe - 5 Meters
- Insulated length: 5m
- Outer jacket impact resistant. Color: black
- Insulation made from PUR

ABS Metric Pre-Insulated Pipe - 5 Meters

Size (mm)	Closest Inch	d (mm)	D (mm)	di (in.)	PSI	lbs per meter	Mfg Part #	Price $
25	3/4	25	90	0.80	150	2.866	169017682	75.10
32	1	32	90	1.11	150	3.307	169017683	75.10
40	1 1/4	40	110	1.39	150	4.189	169017684	87.70
50	1 1/2	50	110	1.73	150	4.630	169017685	94.70
63	2	63	125	2.18	150	5.952	169017686	116.60
75	2 1/2	75	140	2.60	150	7.716	169017687	136.20
90	3	90	160	3.12	150	9.700	169017688	168.50
110	4	110	180	3.81	150	12.125	169017689	205.40
140	5	140	225	4.87	150	18.739	169017691	297.60
160	6	160	250	5.52	150	23.148	169017692	320.70
200	8	200	280	6.91	150	29.762	169017693	451.00
225	8	225	315	7.76	150	40.785	169017694	558.10



ABS Metric Pre-Insulated Pipe - 6 Meters
- Insulated length: 6m (as an option: available in 5m)
- Outer jacket impact resistant. Color: black
- Insulation made from PUR
- Ready for connection with free pipe end and integrated socket

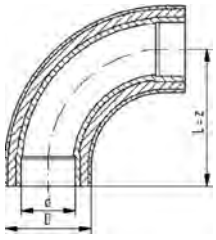


ABS Metric Pre-Insulated Pipe - 6 Meters

Size (mm)	Closest Inch	d (mm)	D (mm)	di (in.)	x (mm)	L (in.)	e (in.)	Z1 (in.)	PSI	lbs per meter	Mfg Part #	Price $
250	10	250	355	9.09	150	236.22	0.38	5.12	90	32.849	169017695	1168.70
280	10	280	400	10.18	165	236.22	0.42	5.71	90	41.226	169017696	1466.00
315	12	315	450	11.45	185	236.22	0.48	6.50	90	52.249	169017697	1890.20

GF COOL-FIT ABS Plus Fittings





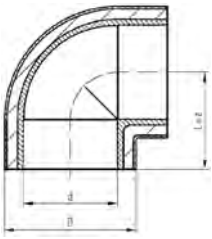
Bend 90° ABS Metric Pre-Insulated Fitting

- Insulation made from PUR
- Outer jacket impact resistant. Color: black
- Connecting dimensions = Pipe outer diameter

Bend 90° ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	L (in.)	PSI	lbs	Required Nipple	Mfg Part #	Price $
25	3/4	25	90	2.72	2.72	150	0.403	738901607	738001107	83.20
32	1	32	90	3.39	3.39	150	0.485	738901608	738001108	87.70
40	1 1/4	40	110	4.29	4.29	150	0.800	738901609	738001109	106.10
50	1 1/2	50	110	5.16	5.16	150	1.153	738901610	738001110	114.40
63	2	63	125	6.46	6.46	150	1.698	738901611	738001111	140.70
75	2 1/2	75	140	7.64	7.64	150	2.555	738901612	738001112	178.90
90	3	90	160	9.09	9.09	150	4.153	738901613	738001113	219.10
110	4	110	180	11.06	11.06	150	7.282	738901614	738001114	303.40
140	5	140	225	14.02	14.02	150	13.228	738901616	738001116	427.90
225	8	225	315	11.03	11.30	150	17.637	738901620	738001120	611.10





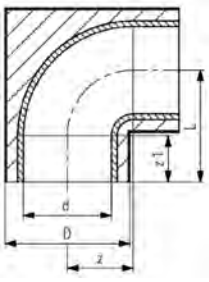
Elbow 90° ABS Metric Pre-Insulated Fitting

- Insulation made from PUR
- Outer jacket impact resistant. Color: black
- Compact design
- Connecting dimensions = Pipe outer diameter

Elbow 90° ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	L (in.)	PSI	lbs	Required Nipple	Mfg Part #	Price $
160	6	160	250	6.54	6.54	150	5.732	738901617	738101117	403.70
200	8	200	280	8.15	8.15	150	11.030	738901619	738101119	593.90





Bend 90° Short Pattern ABS Metric Pre-Insulated Fitting

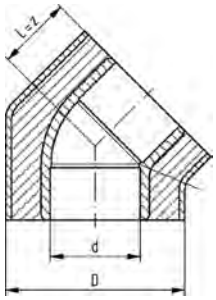
- Insulation made from PUR
- Outer jacket impact resistant. Color: black
- Compact design
- Connecting dimensions = Pipe outer diameter

Bend 90° Short Pattern ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	z1 (in.)	L (in.)	PSI	lbs	Mfg Part #	Price $
250	10	250	355	5.16	5.12	10.35	90	22.046	738101121	3147.10
280	10	280	400	8.27	5.71	14.06	90	39.683	738001122	3491.50
315	12	315	450	9.33	6.50	15.79	90	52.910	738001123	4049.70

GF COOL-FIT ABS Plus Fittings





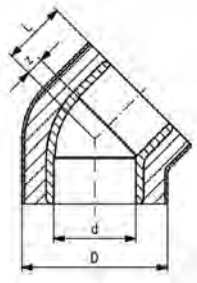
Elbow 45° ABS Metric Pre-Insulated Fitting

- Insulation made from PUR
- Outer jacket impact resistant. Color: black
- Connecting dimensions = Pipe outer diameter

Elbow 45° ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	L (in.)	PSI	lbs	Required Nipple	Mfg Part #	Price $
25	3/4	25	90	0.98	0.98	150	0.176	738901607	738151107	73.90
32	1	32	90	1.18	1.18	150	0.227	738901608	738151108	77.40
40	1 1/4	40	110	1.42	1.42	150	0.265	738901609	738151109	87.70
50	1 1/2	50	110	1.69	1.69	150	0.425	738901610	738151110	89.00
63	2	63	125	2.05	2.05	150	0.732	738901611	738151111	110.90
75	2 1/2	75	140	2.40	2.40	150	1.065	738901612	738151112	130.40
90	3	90	160	2.80	2.80	150	1.543	738901613	738151113	163.90
110	4	110	180	3.50	3.50	150	2.229	738901614	738151114	206.60
140	5	140	225	4.25	4.25	150	4.189	738901616	738151116	286.10
160	6	160	250	4.80	4.80	150	6.402	738901617	738151117	355.30
200	8	200	280	5.87	5.87	150	8.128	738901619	738151119	489.00
225	8	225	315	6.61	6.61	150	10.185	738901620	738151120	525.90





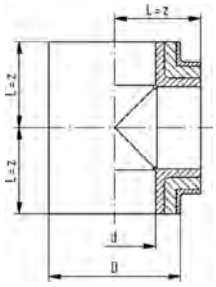
Elbow 45° ABS Metric Pre-Insulated Fitting

- Insulation made from PUR
- Outer jacket impact resistant. Color: black
- Compact design
- Connecting dimensions = Pipe outer diameter

Elbow 45° ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	L (in.)	PSI	lbs	Mfg Part #	Price $
250	10	250	355	2.36	7.56	90	19.841	738151121	2882.50
280	10	280	400	2.60	8.39	90	28.660	738151122	3078.50
315	12	315	450	2.91	9.41	90	37.478	738151123	3528.10





Tee 90° ABS Metric Pre-Insulated Fitting

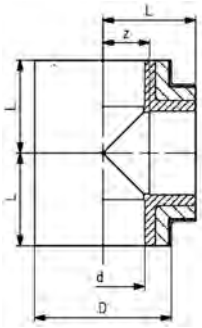
- Insulation made from PUR
- Outer jacket impact resistant. Color: black

Tee 90° ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	L (in.)	PSI	lbs	Required Nipple	Mfg Part #	Price $
25	3/4	25	90	3.15	3.15	150	0.562	738901607	738201007	129.30
32	1	32	90	3.15	3.15	150	0.569	738901608	738201008	129.30
40	1 1/4	40	110	3.54	3.54	150	0.985	738901609	738201009	132.80
50	1 1/2	50	110	3.54	3.54	150	1.091	738901610	738201010	136.20
63	2	63	125	3.94	3.94	150	1.709	738901611	738201011	149.00
75	2 1/2	75	140	4.92	4.92	150	2.800	738901612	738201012	152.40
90	3	90	160	5.51	5.51	150	3.527	738901613	738201013	181.20
110	4	110	180	4.80	4.80	150	5.090	738901614	738201114	219.10
140	5	140	225	5.79	5.79	150	8.023	738901616	738201116	451.00
160	6	160	250	6.57	6.57	150	4.850	738901617	738201117	534.00
200	8	200	280	8.15	8.15	150	14.991	738901619	738201119	701.20
225	8	225	315	9.17	9.17	150	22.487	738901620	738201120	784.10

GF COOL-FIT ABS Plus Fittings





Tee 90° ABS Metric Pre-Insulated Fitting

- Insulation made from PUR
- Outer jacket impact resistant. Color: black
- Compact design
- Connecting dimensions = Pipe outer diameter

Tee 90° ABS Metric Pre-Insulated Fitting

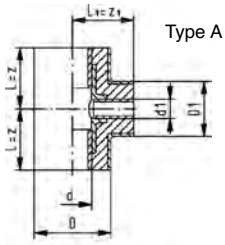
Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	L (in.)	PSI	lbs	Mfg Part #	Price $
250	10	250	355	5.20	10.35	90	32.306	738201121	2525.00
280	10	280	400	5.98	11.73	90	46.297	738201122	2905.60
315	12	315	450	6.30	13.07	90	59.524	738201123	3539.60



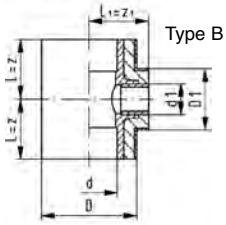
Tee 90° Reduced ABS Metric Pre-Insulated Fitting

- Insulation made from PUR
- Outer jacket impact resistant. Color: black

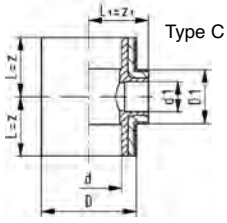
Type A



Type B



Type C



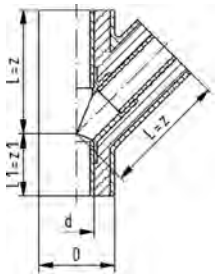
Tee 90° Reduced ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	d1 (mm)	D (mm)	D1 (mm)	z (in.)	z1 (in.)	Type	PSI	Required Nipples	Mfg Part #	Price $
32 x 25	1 x 3/4	32	25	90	90	3.15	3.15	C	150	1x738901607; 2x738901608	738201038	145.50
40 x 25	1 1/4 x 3/4	40	25	110	90	3.54	3.54	C	150	1x738901607; 2x738901609	738201051	147.80
40 x 32	1 1/4 x 1	40	32	110	90	3.54	3.54	C	150	1x738901608; 2x738901608	738201047	147.80
50 x 25	1 1/2 x 3/4	50	25	110	90	3.54	3.54	C	150	1x738901607; 2x738901610	738201092	152.40
50 x 32	1 1/2 x 1	50	32	110	90	3.54	3.54	C	150	1x738901608; 2x738901610	738201064	152.40
63 x 25	2 x 3/4	63	25	125	90	3.94	3.94	A	150	1x738901107; 2x738901111	738201193	166.10
63 x 32	2 x 1	63	32	125	90	3.94	3.94	A	150	1x738901108; 2x738901111	738201178	163.90
63 x 50	2 x 1 1/2	63	50	125	110	3.94	3.94	A	150	1x738901110; 2x738901111	738201170	163.90
75 x 40	2 1/2 x 1 1/4	75	40	140	110	4.53	4.33	A	150	1x738901109; 2x738901112	738201182	167.40
90 x 32	3 x 1	90	32	160	90	3.82	4.72	B	150	1x738901108; 2x738901613	738201143	203.10
90 x 63	3 x 2	90	63	160	125	3.82	4.72	B	150	1x738901111; 2x738901613	738201146	203.10
110 x 32	4 x 1	110	32	180	90	4.61	5.12	B	150	1x738901108; 2x738901614	738201144	237.70
110 x 50	4 x 1 1/2	110	50	180	110	4.61	5.12	B	150	1x738901110; 2x738901614	738201136	237.70
140 x 50	5 x 1 1/2	140	50	225	110	5.79	6.02	B	150	1x738901110; 2x738901616	738201148	510.90
140 x 75	5 x 2 1/2	140	75	225	140	5.79	6.02	B	150	1x738901112; 2x738901616	738201149	510.90
160 x 90	6 x 3	160	90	250	160	6.57	6.50	B	150	1x738901113; 2x738901617	738201158	582.40
200 x 110	8 x 4	200	110	280	180	8.39	7.60	C	150	1x738901614; 2x738901619	738201153	772.70
225 x 110	8 x 4	225	110	315	180	9.41	8.11	C	150	1x738901614; 2x738901620	738201156	843.00
225 x 160	8 x 6	225	160	315	250	9.41	8.11	C	150	1x738901617; 2x738901620	738201157	843.00

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GF COOL-FIT ABS Plus Fittings





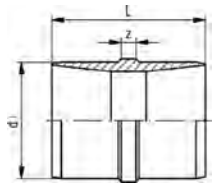
Tee 45° ABS Metric Pre-Insulated Fitting

- Insulation made from PUR
- Outer jacket impact resistant. Color: black
- Connecting dimensions = Pipe outer diameter

Tee 45° ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (mm)	z (in.)	z1 (in.)	L (in.)	L1 (in.)	PSI	lbs	Required Nipple	Mfg Part #	Price $
50	1 1/2	50	110	7.09	3.54	7.09	3.54	150	2.090	738901110	738251110	266.50
63	2	63	125	7.87	3.94	7.87	3.94	150	2.822	738901111	738251111	611.10
75	2 1/2	75	140	9.45	4.72	9.45	4.72	150	1.764	738901112	738251112	677.00
90	3	90	160	9.84	4.92	9.84	4.92	150	6.054	738901113	738251113	819.90
110	4	110	180	11.81	5.91	11.81	5.91	150	9.764	738901114	738251114	986.00





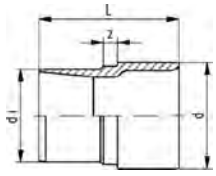
Barrel Nipple di-di ABS Metric Fitting

- To connect pipe inner diameters di

Barrel Nipple di-di ABS Metric Fitting

Size (mm)	Closest Inch	d (mm)	di (in.)	L (in.)	z (in.)	PSI	lbs	Mfg Part #	Price $
25	3/4	25	0.79	2.05	0.39	150	0.020	738901107	2.75
32	1	32	1.10	2.28	0.39	150	0.031	738901108	3.25
40	1 1/4	40	1.38	2.60	0.39	150	0.046	738901109	4.65
50	1 1/2	50	1.73	2.99	0.39	150	0.077	738901110	5.25
63	2	63	2.17	3.54	0.39	150	0.130	738901111	8.70
75	2 1/2	75	2.56	4.02	0.39	150	0.192	738901112	20.20
90	3	90	3.11	4.09	0.39	150	0.280	738901113	37.70
110	4	110	3.78	4.80	0.39	150	0.450	738901114	53.90
140	5	140	4.84	5.91	0.39	150	0.917	738901116	106.10
160	6	160	5.55	6.54	0.39	150	1.283	738901117	133.80
200	8	200	6.93	7.95	0.39	150	2.246	738901119	219.10
225	8	225	7.80	8.82	0.39	150	3.069	738901120	253.70





Adaptor Nipple d-di ABS Metric Fitting

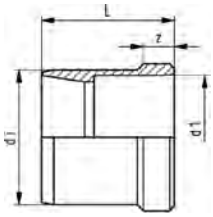
- To connect d to pipe inner diameter di
- Can also be used as a reducer di 160 to di 140

Adaptor Nipple d-di ABS Metric Fitting

Size (mm)	Closest Inch	d (mm)	di (in.)	L (in.)	z (in.)	PSI	lbs	Mfg Part #	Price $
25	3/4	25	0.79	1.97	0.39	150	0.018	738901607	2.90
32	1	32	1.10	2.20	0.39	150	0.037	738901608	3.25
40	1 1/4	40	1.38	2.52	0.39	150	0.057	738901609	4.65
50	1 1/2	50	1.73	2.91	0.39	150	0.097	738901610	5.30
63	2	63	2.17	3.46	0.39	150	0.174	738901611	8.70
75	2 1/2	75	2.56	3.94	0.39	150	0.280	738901612	20.20
90	3	90	3.11	4.25	0.39	150	0.395	738901613	37.70
110	4	110	3.78	5.00	0.39	150	0.703	738901614	53.90
140	5	140	4.84	6.14	0.39	150	1.113	738901616	106.10
160	6	160	5.55	6.85	0.39	150	1.803	738901617	133.80
200	8	200	6.93	8.35	0.39	150	4.090	738901619	219.10
225	8	225	7.80	9.29	0.39	150	4.235	738901620	253.70

GF COOL-FIT ABS Plus Fittings





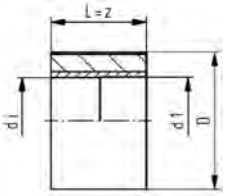
Reducing Nipple di-dred ABS Metric Fitting

- To connect pipe inner diameters di

Reducing Nipple di-dred ABS Metric Fitting

Size (mm)	Closest Inch	d (mm)	d1 (mm)	di (in.)	L (in.)	z (in.)	PSI	lbs	Mfg Part #	Price $
32	1	32	25	1.10	1.34	0.39	150	0.013	738911341	40.50
40	1 1/4	40	32	1.38	1.50	0.39	150	0.002	738911346	34.70
50	1 1/2	50	40	1.73	1.69	0.39	150	0.029	738911352	34.60
63	2	63	50	2.17	1.97	0.39	150	0.055	738911358	35.80
75	2 1/2	75	63	2.56	2.20	0.39	150	0.049	738911364	42.90
90	3	90	75	3.11	2.24	0.39	150	0.073	738911370	52.10
110	4	110	90	3.78	2.60	0.39	150	0.163	738911376	68.20
140	5	140	110	4.84	3.15	0.39	150	0.481	738911385	107.50
200	8	200	160	6.93	4.17	0.39	150	0.994	738911392	223.90





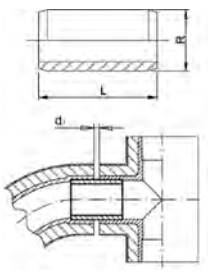
Reducing Bush ABS Metric Pre-Insulated Fitting

- To connect di 225 to d 200
- Insulation made from PUR
- Outer jacket impact resistant. Color: black

Reducing Bush ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	d1 (mm)	di (in.)	L (in.)	z (in.)	PSI	lbs	Mfg Part #	Price $
225	8	225	200	7.80	8.66	8.66	150	8.651	738911396	260.70





Barrel Nipple d-d ABS Metric Fitting

- For fast joining of COOL-FIT Plus fittings for d - connecting dimensions
- For the shortest possible distance between COOL-FIT fittings
- Overall length L = 2 x socket length + 10 mm inspection gap

Barrel Nipple d-d ABS Metric Fitting

Size (mm)	Closest Inch	d (mm)	L (in.)	d1 (in.)	PSI	lbs	Mfg Part #	Price $
25	3/4	25	1.89	0.39	240	0.022	738901907	12.10
32	1	32	2.13	0.39	150	0.024	738901908	12.10
40	1 1/4	40	2.44	0.39	150	0.046	738901909	13.10
50	1 1/2	50	2.83	0.39	150	0.079	738901910	14.50
63	2	63	3.39	0.39	150	0.159	738901911	16.80
75	2 1/2	75	3.86	0.39	150	0.254	738901912	22.10
90	3	90	4.41	0.39	150	0.419	738901913	29.90
110	4	110	5.20	0.39	150	0.683	738901914	40.50
140	5	140	6.38	0.39	150	1.603	738901916	98.20
160	6	160	7.17	0.39	150	2.086	738901917	114.40
200	8	200	8.74	0.39	150	3.946	738901919	178.90
225	8	225	9.76	0.39	150	5.567	738901920	220.50

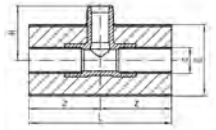
GF COOL-FIT ABS Plus Fittings

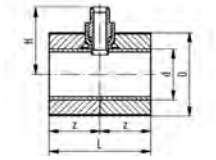
Type A



Type B







Signet Installation Fitting Type 310 ABS Metric Pre-Insulated Fitting
- Threaded outlet 1 1/4" NPSM
- Insulation made from PUR
- Outer jacket impact resistant. Color: black

Range of use:
- Compatible Signet flow sensors: models 2551, 2537, 515, 8510, 2536, 8512
- Compatible Signet pH/ORP sensors: models 2724, 2725, 2726

Attention:
- Sensor length depends on installation fitting
- Connecting dimensions = Pipe inner diameter

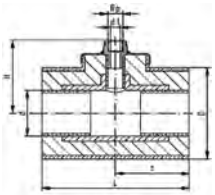
Size (mm)	Closest Inch	d (mm)	D (in.)	L (in.)	H (in.)	z (mm)	PSI	lbs	Type	Sensor Type	Required Nipple	Mfg Part #	Price $
25	3/4	25	3.54	8.66	3.07	110	150	0.831	A	Flow X0, pH XX	738901107	738310107	203.10
32	1	32	3.54	8.66	3.19	110	150	0.838	A	Flow X0, pH XX	738901108	738310108	206.60
40	1 1/4	40	4.33	8.66	3.35	110	150	1.089	A	Flow X0, pH XX	738901109	738310109	206.60
50	1 1/2	50	4.33	8.66	3.50	110	150	1.213	A	Flow X0, pH XX	738901110	738310110	213.60
63	2	63	4.92	8.66	3.74	110	150	1.548	A	Flow X0, pH XX	738901111	738310111	233.00
75	2 1/2	75	5.51	8.66	6.34	110	150	1.850	B	Flow X1	738901112	738310112	267.60
90	3	90	6.30	8.66	6.73	110	150	2.125	B	Flow X1	738901113	738310113	297.60
110	4	110	7.09	8.66	7.13	110	150	2.769	B	Flow X1	738901114	738310114	380.60
140	5	140	8.86	8.66	7.60	110	150	3.970	B	Flow X1	738901116	738310116	736.90
160	6	160	9.84	8.66	7.95	110	150	5.258	B	Flow X1	738901117	738310117	855.60
200	8	200	11.02	9.84	8.31	125	150	7.224	B	Flow X1	738901119	738310119	1211.90
225	8	225	12.40	11.02	8.86	140	150	11.363	B	Flow X1	738901120	738310120	1235.00

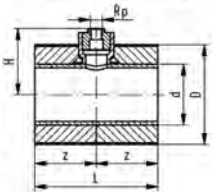
Type A



Type B







Signet Installation Fitting Type 313 ABS Metric Pre-Insulated Fitting
- With 1/2" Rp threaded branch for sensors (i.e. pressure)
- Insulation made from PUR
- Outer jacket impact resistant. Color: black

Range of use:
- Compatible Signet pressure sensors: type 2450-1 /-2 /-5

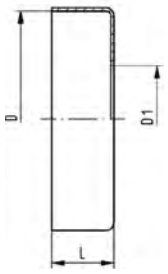
Attention:
- Connecting dimensions = Pipe inner diameter

Signet Installation Fitting Type 313 ABS Metric Pre-Insulated Fitting

Size (mm)	Closest Inch	d (mm)	D (in.)	d1 (in.)	Rp (in.)	L (in.)	H (in.)	z (in.)	PSI	lbs	Type	Required Nipple	Mfg Part #	Price $
25	3/4	25	3.54	0.47	1/2	6.30	3.94	3.15	150	0.728	A	738901107	738313007	236.50
32	1	32	3.54	0.55	1/2	6.30	3.94	3.15	150	0.882	A	738901108	738313008	242.30
40	1 1/4	40	4.33	0.55	1/2	7.09	3.94	3.54	150	1.102	A	738901109	738313009	242.30
50	1 1/2	50	4.33	0.55	1/2	7.09	3.94	3.54	150	1.257	A	738901110	738313010	250.30
63	2	63	4.92	0.47	1/2	7.87	3.94	3.94	150	1.962	A	738901111	738313011	273.50
75	2 1/2	75	5.51	-	1/2	8.66	3.94	4.33	150	1.691	B	738901112	738313012	326.60
90	3	90	6.30	-	1/2	8.66	4.29	4.33	150	2.119	B	738901113	738313013	356.40
110	4	110	7.09	-	1/2	8.66	4.69	4.33	150	2.597	B	738901114	738313114	463.70
140	5	140	8.86	-	1/2	8.66	5.28	4.33	150	3.816	B	738901116	738313116	891.50
160	6	160	9.84	-	1/2	8.66	5.71	4.33	150	4.912	B	738901117	738313117	1010.10
200	8	200	11.02	-	1/2	9.84	6.50	4.92	150	7.956	B	738901119	738313119	1485.10
225	8	225	12.40	-	1/2	11.02	7.01	5.51	150	10.240	B	738901120	738313120	1485.10

GF COOL-FIT ABS Plus Accessories





Cap, PE

- To seal the end of a COOL-FIT pipe to ABS

Cap, PE, Black

Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	L (in.)	lbs	Mfg Part #	Price $
25	3/4	25	90	24	1.38	0.057	733960171	26.30
32	1	32	90	32	1.38	0.031	733960172	26.30
40	1 1/4	40	110	39	1.38	0.079	733960173	29.00
50	1 1/2	50	110	48	1.38	0.053	733960174	29.00
63	2	63	125	59	1.38	0.099	733960175	29.00
75	2 1/2	75	140	70	1.38	0.064	733960176	33.40
90	3	90	160	83	1.38	0.068	733960177	38.70
110	4	110	180	100	1.38	0.121	733960178	42.50
140	5	140	225	127	1.38	0.179	733960180	61.30
160	6	160	250	144	1.38	0.146	733960181	64.70
200	8	200	280	187	1.38	0.322	733960183	76.30
225	8	225	315	210	1.38	0.276	733960184	87.70



Silicon Glue

- For sealing and gluing caps

Silicon Glue

Tube Size (ml)	lbs	Mfg Part #	Price $
290	1.043	738011103	83.80





Repairing Tape, PE

- For later closing of gaps instead of shrink sleeve
- 1150 mm x 150 mm (45" x 6"), black

Shrink Tape, PE

D (mm)	Closest Inch	d-d (mm)	lbs	Mfg Part #	Price $
90 - 355	3/4 - 10	25 - 250	3.307	738011104	68.00

Sealing Tape

- For a water- and steam-tight sealing of inspection gaps in combination with shrink sleeves/-sockets
- Sealing tape: 40 mm width, buthylene rubber-based
- 30 m on a roll

Sealing Tape

D (mm)	d-d (mm)	Closest Inch	lbs	Mfg Part #	Price $
90 - 450	25 - 315	3/4 - 12	4.705	738011152	172.00





Shrink Tape, PE

- For indoor use only
- For later closing of gaps
- Mastic backed
- Width (L) available in 4 or 12 inch
- 10 m (33 ft) on a roll
- Shrink with a burner or hot air gun

Shrink Tape, PE

D (mm)	Closest Inch	d-d (mm)	L (in.)	lbs	Mfg Part #	Price $
90 - 450	3/4 - 8	25 - 315	3.94	3.212	738011105	198.50
90 - 450	3/4 - 8	25 - 315	11.81	6.614	738011106	593.90

Cold Shrink Tape, PE

- For indoor use only
- Shrinks without heat application
- Width (L) available in 100mm
- 15 m on a roll

Cold Shrink Tape, PE

D (mm)	Closest Inch	d-d (mm)	lbs	Mfg Part #	Price $
90 - 450	3/4 - 8	25 - 315	3.799	738011107	113.10





Gap Filler

- 13 x 13mm
- 2.5 m on a roll
- To insulate inspection gap at joints

Gap Filler

D (mm)	d-d (mm)	lbs	Mfg Part #	Price $
90 - 450	25 - 315	0.044	738011150	5.80

GF COOL-FIT ABS Plus Accessories



Shrink Sleeve Short, PE
- For a water- and steam-tight sealing in combination with buthylene rubber-based sealing tape
- Length: 100 mm
- For connections of the same pipe outer diameter

Shrink Sleeve Short, PE

D (mm)	d (mm)	lbs	Mfg Part #	Price $
90	25 / 32	0.077	738011113	20.20
110	40 / 50	0.115	738011114	20.20
125	63	0.168	738011115	22.70
140	75	0.161	738011116	22.70
160	90	0.194	738011117	25.20
180	110	0.192	738011118	25.20
225	140	0.267	738011120	29.80
250	160	0.287	738011121	33.50
280	200	0.295	738011122	34.60
315	225	0.287	738011123	37.00



Shrink Sleeve Long, PE
- To provide a water tight seal in combination with sealing tape
- For straight connections only
- D-D1 connections can be realized with the sleeves listed in the table below
- Length: 265 mm

Shrink Sleeve Long, PE

D (mm)	Closest Inch	L (in.)	lbs	Mfg Part #	Price $
110 - 160	4 - 6	10.43	0.635	738011167	35.20
180 - 225	7 - 8	10.43	0.216	738011170	41.70
250 - 315	10 - 12	10.43	1.499	738011173	44.10



Heavy Duty Shrink Sleeve, PE
- For a water- and steam-tight sealing in combination with buthylene rubber-based sealing tape
- Length: 100 mm
- "Heavy Duty" version for high end applications
- For connections of the same pipe outer diameter

Heavy Duty Shrink Sleeve, PE

D (mm)	d (mm)	lbs	Mfg Part #	Price $
90	25 / 32	0.220	738011013	38.20
110	40 / 50	0.249	738011014	38.20
125	63	0.293	738011015	40.50
140	75	0.322	738011016	43.90
160	90	0.364	738011017	50.10
180	110	0.489	738011018	53.70
225	140	0.617	738011020	65.60
250	160	0.776	738011021	70.30
280	200	0.818	738011022	82.10
315	225	0.979	738011023	90.50
355	250	1.984	738011024	104.00
400	280	2.425	738011025	121.30
455	315	4.189	738011026	146.60



Shrink Cap, PE
- To seal dimension reductions on PE
- Can also be used for T 90° reducers
- No sealing tape required (In cap included)
- Attention: Do not shrink onto ABS

Shrink Cap, PE

D (mm)	Closest Inch	D1 (mm)	L (in.)	L1 (in.)	lbs	Mfg Part #	Price $
225 - 160	8 - 6	140 - 90	5.39	2.40	0.390	733960135	64.40
315 - 225	12 - 8	250 - 125	5.63	1.69	0.694	733960140	130.80

COOL-FIT ABS Plus

GF COOL-FIT ABS Plus Accessories



Pipe Calibration Tool
- To calibrate pipe inner diameters of COOL-FIT Plus pipes 140mm and larger
- Includes transportation case



Deburring Tool
- The deburring tool is used to chamfer the inside of COOL-FIT ABS Plus pipes and fittings.



Adaptor
- MSA electrofusion adaptor for COOL-Fit Plus fixed point

Pipe Calibration Tool

d-d (mm)	Closest Inch	lbs	Mfg Part #	Price $
140 - 225	5 - 8	41.678	790205001	POA

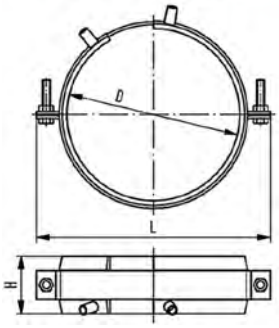
Deburring Tool

d-d (mm)	lbs	Mfg Part #	Price $
25 - 225	0.110	150900475	5.80

Adaptor

lbs	Mfg Part #	Price $
0.046	799350339	38.30





Fixed Point
- The product consists of two components: a welding band and a pipe bracket.
- Electro-fusion welded band as permanent connection to transmit the forces that occur in the pipe to the fixed point.
- The included pipe brackets are needed to deliver welding pressure during installation and give stability during operation.
- For welding, use an MSA 250, 300, 350, 400 or commercially available 220V fusion machines.
- If you use an MSA fusion machine from GF Piping Systems, use the 799 350 339 adapter.
- Fixed point brackets and cross braces have to be calculated and obtained by the installer. They are not included in the fixed point set from GF.

Fixed Point

D (mm)	Closest Inch	d (mm)	L (in.)	H (in.)	lbs	Maximum Force [kN]	Mfg Part #	Price $
90	3/4 - 1	25 / 32	5.51	2.36	1.973	1.5	738912013	202.00
110	1 1/4 - 1 1/2	40 / 50	6.69	2.36	1.993	2.0	738912014	220.10
125	2	63	7.28	2.36	0.271	3.5	738912015	255.60
140	2 1/2	75	8.27	2.36	2.619	5.5	738912016	284.90
160	3	90	8.66	2.36	2.595	9.0	738912017	356.40
180	4	110	9.61	2.36	3.373	10.0	738912018	415.20
225	5	140	11.61	2.36	3.997	10.0	738912020	475.20
250	6	160	12.60	2.36	4.314	10.0	738912021	534.00
280	8	200	13.78	2.36	4.411	10.0	738912022	569.70
315	8	225	15.16	2.36	5.265	10.0	738912023	593.90
355	10	250	16.54	2.36	5.265	10.0	738912024	POA

Also Available - GF COOL-FIT ABS and COOL-FIT ABS Lite



POA - Price On Application
Contact Sales Department for Details
1-800-849-3030



COOL-FIT® ABS is a complete system solution for secondary cooling and refrigeration piping systems. The system is based on the tried and tested ABS plastic system from GF Harvel which contains pipe fittings, valves and transition fittings, now with the option for pre-insulated pipe and fittings with outer jackets in black (COOL-FIT® ABS Plus).

COOL-FIT® ABS systems offer an energy efficient solution for industrial low temperature applications, refrigeration and cooling systems.

COOL-FIT® ABS Lite is a pre-insulated version of COOL-FIT® ABS ready to install on-site for chilled water and air conditioning systems inside buildings.

The COOL-FIT® ABS system includes pipe, fittings, transition fittings to copper, manual valves and measurement and control devices.

Secondary Containment

GF Contain-It™ Clamshell Type Secondary Containment



Industries have been assessed clean-up expenditures which far exceed the costs to install protective measures. When penalties and fines are added to the costs of cleaning up spills and leaks, it becomes obvious that industries have a legal and financial responsibility for protecting our environment.

Contain-It™ provides the necessary environmental protection at a fraction of potential clean-up costs. The system includes many features which yield benefits to the owner, engineer and installer.

The retrofit capability and chemical resistance of Contain-It™ makes this an ideal choice for containment piping of chemical process lines.

Features:

- Split pipe and fittings
- Fits over virtually any carrier system
- Lightweight, easy to install
- Clear construction for visual leak detection
- Interlocking construction
- Engineered bonding media channels and flanges
- Pre-drilled bonding media injection ports
- Quick and easy fitting clips
- Predetermined fitting clip locators



Pipe - Solid

Size (in.)	Length (ft.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
3	20	3.548	3.248	37L026030	14.21
4	20	4.215	3.882	37L026040	14.64
6	20	6.275	5.782	37L026060	30.66



Pipe - Split

Size (in.)	Length (ft.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
3	10	3.548	2.743	37L015030	24.90
4	10	4.215	3.525	37L015040	25.74
6	10	6.275	5.375	37L015060	53.63



Tee - Split (S x S)

Size (in.)	Height (in.)	Length (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
3	6.52	8	5	4	4	4601-030-C	149.57
4	7.19	9	6	5	4	4601-040-C	153.84
6	10.25	12	8	7	6	4601-060-C	222.21



90° Elbow - Split (S x S)

Size (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
3	5.81	4.69	3.88	4606-030-C	128.20
4	5.81	4.69	3.88	4606-040-C	132.47
6	8.19	6.88	5.97	4606-060-C	202.98



45° Elbow - Split (S x S)

Size (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
3	5.04	3.96	3.55	4617-030	128.20
4	5.81	4.69	3.88	4617-040	132.47
6	8.19	6.88	5.97	4617-060	202.98



45° Wye - Split (S x S x S)

Size (in.)	Length (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
4	11.00	5.81	4.69	3.88	4683-040	202.98
6	15.19	8.19	6.88	5.97	4683-060	291.65



Coupling - Standard, Split (S x S)

Size (in.)	Length (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
3	4.38	5.04	3.96	3.55	4629-030	98.07
4	4.38	5.81	4.69	3.88	4629-040	101.06
6	5.81	8.19	6.88	5.97	4629-060	151.70



Coupling - Extended, Split (S x S)

Size (in.)	Length (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
3	9.00	5.04	3.96	3.55	4629-030E	108.97
4	10.00	5.81	4.69	3.88	4629-040E	112.18
6	11.50	8.19	6.88	5.97	4629-060E	161.32



Coupling - Reducer, Split (S x S)

Size (in.)	Length (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
6 x 4	5.81	8.19	6.88	5.97	4629-532	202.98



Cap - 1 Piece (S)

Size (in.)	Length (in.)	O.D. (in.)	Mfg Part #	Price $
4	1.94	4.50	4647-040	82.79
6	3.19	6.75	4647-060	121.78



Plug - 1 Piece (MPT)

Size (in.)	Mfg Part #	Price $
4	4650-040	82.79
6	4650-060	121.78



Adapter Sleeve 1 Piece (IPS Spg x S)

Size (in.)	Mfg Part #	Price $
3 x 3	4687-030	77.88
4 x 4	4687-040	82.79
6 x 6	4687-060	121.78



Female Adapter - 1 Piece (S x FPT)

Size (in.)	Length (in.)	O.D. (in.)	Mfg Part #	Price $
4	3.18	5.00	4635-040	101.16
6	5.00	6.75	4635-060	153.84



Floor Drain 1 Piece (IPS Spg x MPT)

Size (in.)	Mfg Part #	Price $
3 x 6	46104-530	1041.61
4 x 6	46104-532	1041.61

Secondary Containment

GF Contain-It™ Clamshell Type Secondary Containment



Termination Fitting - Rigid PVC, Split (S to IPS)

Size (in.)	Length (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
4 x 1/2	4.44	5.81	4.69	3.88	4628-415	170.93
4 x 3/4	4.44	5.81	4.69	3.88	4628-416	170.93
4 x 1	4.44	5.81	4.69	3.88	4628-417	170.93
4 x 1 1/4	4.44	5.81	4.69	3.88	4628-418	170.93
4 x 1 1/2	4.44	5.81	4.69	3.88	4628-419	170.93
4 x 2	4.44	5.81	4.69	3.88	4628-420	170.93
6 x 2 1/2	5.81	8.19	6.88	5.97	4628-529	245.71
6 x 3	5.81	8.19	6.88	5.97	4628-530	245.71
6 x 4	5.81	8.19	6.88	5.97	4628-532	245.71



Test Termination Fitting - Rigid PVC, Split (S to IPS)

Size (in.)	Length (in.)	Width (in.)	O.D. (in.)	I.D. (in.)	Mfg Part #	Price $
4 x 2	4.44	5.81	4.69	3.88	4628-420T	178.41
6 x 4	5.81	8.19	6.88	5.97	4628-532T	253.20

Pressure Rated

Although normal containment systems are not required to handle high pressures, the Contain-It system can be pressure tested via low pressure air or hydrostatically as defined in the chart below.

Pipe Size	PSI with Air	PSI with Water	
		Flexible Termination Fittings or Female Adapter	Rigid Termination Fittings
4”	5 psi	5 psi	32 psi
6”	5 psi	5 psi	32 psi



Termination Fitting Flexible Alcryn, 1 Piece Contain-It to IPS/Metric

Size (in.)	Size (mm)	Mfg Part #	Price $
3 x 2	63	4628-338A	98.07
4 x 1/2	20	4628-415A	101.16
4 x 3/4	25	4628-416A	101.16
4 x 1	32	4628-417A	101.16
4 x 1 1/4	40	4628-418A	101.16
4 x 1 1/2	50	4628-419A	101.16
4 x 2	63	4628-420A	101.16
6 x 2 1/2	75	4628-529A	299.13
6 x 3	90	4628-530A	299.13
6 x 4	110	4628-532A	299.13



Test Termination Fitting Flexible Alcryn, 1 Piece Contain-It to IPS/Metric

Size (in.)	Size (mm)	Mfg Part #	Price $
3 x 2	63	4628-338AT	105.55
4 x 1/2	20	4628-415AT	108.97
4 x 3/4	25	4628-416AT	108.97
4 x 1	32	4628-417AT	108.97
4 x 1 1/4	40	4628-418AT	108.97
4 x 1 1/2	50	4628-419AT	108.97
4 x 2	63	4628-420AT	108.97
6 x 2 1/2	75	4628-529AT	306.61
6 x 3	90	4628-530AT	306.61
6 x 4	110	4628-532AT	306.61



Termination Fitting Flexible Alcryn, 1 Piece Contain-It to Copper Tube Size

Size (in.)	Mfg Part #	Price $
4 x 1/2	4628-415AC	101.16
4 x 3/4	4628-416AC	101.16
4 x 1	4628-417AC	101.16
4 x 1 1/4	4628-418AC	101.16
4 x 1 1/2	4628-419AC	101.16
4 x 2	4628-420AC	101.16
6 x 2	4628-528AC	269.22
6 x 2 1/2	4628-529AC	299.13
6 x 3	4628-530AC	299.13
6 x 4	4628-532AC	299.13



Test Termination Fitting Flexible Alcryn, 1 Piece Contain-It to Copper Tube Size

Size (in.)	Mfg Part #	Price $
4 x 1/2	4628-415ATC	108.97
4 x 3/4	4628-416ATC	108.97
4 x 1	4628-417ATC	108.97
4 x 1 1/4	4628-418ATC	108.97
4 x 1 1/2	4628-419ATC	108.97
4 x 2	4628-420ATC	108.97
6 x 2	4628-528ATC	276.69
6 x 2 1/2	4628-529ATC	306.61
6 x 3	4628-530ATC	306.61
6 x 4	4628-532ATC	306.61



Centralizer (Contain-It x IPS)

Size (in.)	Mfg Part #	Price $
3 x 2	4686-338	50.54
4 x 1/2	4686-415	52.13
4 x 3/4	4686-416	52.13
4 x 1	4686-417	23.07
4 x 1 1/4	4686-418	52.13
4 x 1 1/2	4686-419	23.07
4 x 2	4686-420	23.07
6 x 2 1/2	4686-529	70.51
6 x 3	4686-530	30.66
6 x 4	4686-532	30.66
6 x 1/2	4686-811	170.93
6 x 3/4	4686-813	170.93
6 x 1	4686-815	170.93



Centralizer (Contain-It x Copper Tube Size)

Size (in.)	Mfg Part #	Price $
4 x 1/2	4686-415C	52.13
4 x 3/4	4686-416C	52.13
4 x 1	4686-417C	52.13
4 x 1 1/4	4686-418C	52.13
4 x 1 1/2	4686-419C	52.13
4 x 2	4686-420C	52.13
6 x 2	4686-528C	70.51
6 x 2 1/2	4686-529C	70.51
6 x 3	4686-530C	70.51
6 x 4	4686-532C	70.51



Centralizer (Contain-It x Metric)

Size (in.) (mm)	Mfg Part #	Price $
4 X 20	4686-712	52.13
4 X 25	4686-713	52.13
4 X 32	4686-714	52.13
4 X 40	4686-715	52.13
4 X 50	4686-716	52.13
4 X 63	4686-717	52.13
6 X 75	4686-719	70.51
6 X 90	4686-720	70.51
6 X 110	4686-721	70.51
6 X 20	4686-812	170.93
6 X 25	4686-814	170.93
6 X 32	4686-816	170.93



Contain-It Accessories

Description	Mfg Part #	Price $
Fitting Clip	4693-101	0.75
Pipe Clamp	4693-102	620.69
4” Drill Bit	4693-104	76.60
6” Drill Bit	4693-106	153.84
4” and 6” Test Gauge	4693-150	78.73
Manual Injection Gun System III	4694-600	675.65
Pneumatic Injection Gun System III	4694-601	1855.96
Adhesive Cartridge System III	4694-602	67.36
Mixing Tip Straight III	4694-603	8.60
Mixing Tip Flexible III	4694-606	40.21
Mixing Tip Bent III	4694-607	23.11

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011519

GF Double-See™ Vinyl Double Containment Piping System



Double-See is fast and easy to install, and is available with a complete selection of pipe, fittings, leak detection and access tees, closure couplings and termination fittings. Additionally, an innovative "valve-in-valve" design is offered which allows full containment pressure rating.

Double-See is available in PVC and CPVC; either material may be primary or secondary (PVC × PVC, CPVC × PVC, CPVC × CPVC) with Clear PVC always being an option for the containment pipe. System size options range from 1/2" × 2" to 6" × 10" meeting virtually any application requirement.

Installation versatility allows simultaneous joining throughout a system or in combination with patented closure couplings which enable practical compliance with the ASME B31.3 requirement for visual inspection of all primary joint connections during the pressure test before closing the secondary piping joint.

Double-See is suitable for a wide range of applications including water and waste water treatment, chemical delivery, dosing and processing, microelectronics, life sciences, metal working/finishing, waste collection, and many others.

Features:

- Revolutionary Closure Coupling Design
- Innovative Centralizer Design
- Factory Assembled and 100% Tested Fittings
- Cut Length Guidance System
- Extensive Standard Part Selection
- Modular Components
- Multiple Leak Detection Options



Double-See Pipe - 20 ft Lengths

Size (in.)	Primary Material X Secondary Material			
	PVC 80 X PVC 80	Price $	CPVC 80 X PVC 80	Price $
1/2 x 2	8808005020AB	38.03	9808005020AB	44.04
3/4 x 3	8808007030AB	45.18	9808007030AB	52.33
1 x 3	8808010030AB	53.47	9808010030AB	61.87
1 1/2 x 4	8808015040AB	63.01	9808015040AB	73.68
2 x 4	8808020040AB	73.68	9808020040AB	85.60
3 x 6	8808030060AB	87.98	9808030060AB	102.18
4 x 8	8808040080AB	103.63	9808040080AB	119.17
6 x 10	8808060100AB	155.44	9808060100AB	178.24



Double-See 90° Elbows

Size (in.)	Primary Material X Secondary Material			
	PVC 80 X PVC 80	Price $	CPVC 80 X PVC 80	Price $
1/2 x 2	8806005020	70.57	9806005020	74.92
3/4 x 3	8806007030	101.04	9806007030	107.77
1 x 3	8806010030	105.70	9806010030	137.82
1 1/2 x 4	8806015040	143.01	9806015040	189.64
2 x 4	8806020040	148.19	9806020040	223.83
3 x 6	8806030060	364.77	9806030060	498.45
4 x 8	8806040080	706.74	9806040080	936.79
6 x 10	8806060100	2577.20	9806060100	3043.52



Double-See 45° Elbows

Size (in.)	Primary Material X Secondary Material			
	PVC 80 X PVC 80	Price $	CPVC 80 X PVC 80	Price $
1/2 x 2	8817005020	94.30	9817005020	96.68
3/4 x 3	8817007030	158.55	9817007030	161.66
1 x 3	8817010030	172.02	9817010030	177.20
1 1/2 x 4	8817015040	259.07	9817015040	202.07
2 x 4	8817020040	269.43	9817020040	233.16
3 x 6	8817030060	448.70	9817030060	479.79
4 x 8	8817040080	782.38	9817040080	874.61
6 x 10	8817060100	1919.17	9817060100	2461.14



Double-See Tees

Size (in.)	Primary Material X Secondary Material			
	PVC 80 X PVC 80	Price $	CPVC 80 X PVC 80	Price $
1/2 x 2	8801005020	133.68	9801005020	140.93
3/4 x 3	8801007030	161.66	9801007030	170.98
1 x 3	8801010030	164.77	9801010030	185.49
1 1/2 x 4	8801015040	223.83	9801015040	268.39
2 x 4	8801020040	368.91	9801020040	445.60
3 x 6	8801030060	745.08	9801030060	894.30
4 x 8	8801040080	1539.90	9801040080	2002.07
6 x 10	8801060100	3558.55	9801060100	4269.43

GF Double-See™ Vinyl Double Containment Piping System



Double-See Closure Coupling

Size (in.)	PVC	Price $	CPVC	Price $
2	831020	315.03	931020	594.82
3	831030	340.93	931030	623.83
4	831040	368.91	931040	653.89
6	831060	392.75	931060	802.07
8	831080	487.05	931080	1069.43
10	831100	683.94	931100	2019.69



Double-See Terminations - PVC 80 & CPVC 80

Size (in.)	PVC 80				CPVC 80			
	FPM	Price $	EPDM	Price $	FPM	Price $	EPDM	Price $
1/2 x 2	825005020F	161.66	825005020E	161.66	925005020F	243.52	925005020E	243.52
3/4 x 3	825007030F	201.04	825007030E	201.04	925007030F	248.70	925007030E	248.70
1 x 3	825010030F	201.04	825010030E	201.04	925010030F	255.96	925010030E	255.96
1 1/2 x 4	825015040F	231.09	825015040E	231.09	925015040F	323.32	925015040E	323.32
2 x 4	825020040F	239.38	825020040E	239.38	925020040F	337.82	925020040E	337.82
3 x 6	825030060F	388.60	825030060E	388.60	925030060F	611.40	925030060E	611.40
4 x 8	825040080F	482.90	825040080E	482.90	925040080F	1092.23	925040080E	1092.23
6 x 10	825060100F	1102.59	825060100E	1102.59	925060100F	1662.18	925060100E	1662.18



Double-See Test Terminations - PVC 80 & CPVC 80

Size (in.)	PVC 80				CPVC 80			
	FPM	Price $	EPDM	Price $	FPM	Price $	EPDM	Price $
1/2 x 2	825005020FT	179.27	825005020ET	179.27	925005020FT	270.47	925005020ET	270.47
3/4 x 3	825007030FT	223.83	825007030ET	223.83	925007030FT	276.68	925007030ET	276.68
1 x 3	825010030FT	223.83	825010030ET	223.83	925010030FT	283.94	925010030ET	283.94
1 1/2 x 4	825015040FT	256.99	825015040ET	256.99	925015040FT	359.59	925015040ET	359.59
2 x 4	825020040FT	265.28	825020040ET	265.28	925020040FT	375.13	925020040ET	375.13
3 x 6	825030060FT	431.09	825030060ET	431.09	925030060FT	679.79	925030060ET	679.79
4 x 8	825040080FT	536.79	825040080ET	536.79	925040080FT	1213.47	925040080ET	1213.47
6 x 10	825060100FT	1224.87	825060100ET	1224.87	925060100FT	1847.67	925060100ET	1847.67

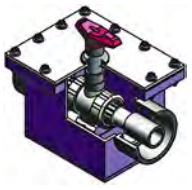
ALSCO also offers:

- Double-See Access Tees
- 90° Low Point Drain/High Point Vent Tees
- Low Point Drain/High Point Vent Tees
- Low Point Leak Detection Sumps
- Double Contained Type 546 Manual Ball Valves
- Manual Valve Boxes
- Actuated Valve Boxes
- Flange/Union Boxes

Contact ALSCO for information and pricing.



Double Contained Type 546 Manual Ball Valves



Manual Valve Boxes



Double-See Access Tees



90° Low Point Drain / High Point Vent Tees



Low Point Drain / High Point Vent Tees



Low Point Leak Detection Sumps



Actuated Valve Boxes



Flange / Union Boxes

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Fuseal Squared® PP

Fuseal Squared® Double Containment Corrosive Waste Pipe and Electrofusion Fittings - PPFR



Federal, state and local regulations have been created to protect our environment from industrial pollution. Protection of the soil and the groundwater table are of primary concern. The Fuseal Squared® system, with a modular design, is a reliable and cost-effective solution for conveyance of industrial and laboratory waste products. Excellent chemical and physical properties make the system ideal for handling corrosive waste solutions present in laboratory and industrial DWV applications where double containment is required.

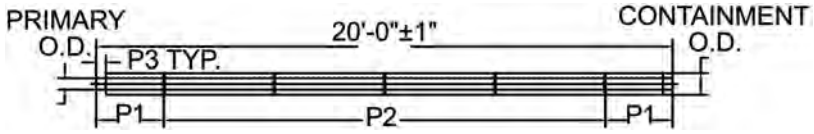
Fuseal Squared® in Polypropylene or PVDF combines the advantages of corrosion-resistant and flame retardant drainage piping with the added security of double-containment.

Advantages:
- Outstanding chemical and corrosion resistance
- Electrofusion joints
- Maintenance-free service with low installation cost
- Can withstand intermittent temperatures up to 212°F (100°C)

3

Technical Data:
- Size Range: 1 1/2" - 8" inner pipe, 4" - 12" outer pipe
- Pressure Rating: 30 foot (15 PSI) maximum head pressure test for DWV applications, Up to 50 PSI for pressure waste applications (subject to manufacturers review of design)
- Operating Temperature: 32°F - 212°F (0°C - 100°C)
- Joining Technology: Electrofusion
- Standard Ratings: Polypropylene: ASTM D635, ASTM D1222, ASTM D1599, ASTM D3310, ASTM D4101, ASTM F1290, ASTM F1412, IGC 164-2001. Polyvinylidene Fluoride: ASTM D635, ASTM E-84, ASTM F1673, UL 723, UL 94-VO
- Materials: Polypropylene Non-Flame Retardant Pipe (PPNFR), Polypropylene Flame Retardant (PPFR)

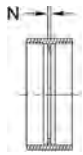
Fields of Application:
- Double-contained Corrosive Waste Drainage
- Life Sciences
- Chemical Process Industry
- Food and Beverage



Fuseal Squared PPFR Pipe - 20 Foot Length

Size (in)	Primary O.D. (in	Containment O.D. (in)	P1 (in)	P2	P3 (in)	Mfg Part #	Price $
1 1/2 - 4	1.90	4.50	24.00	4 sps @ 48" = 16'-0"	1.50	37F023015	60.68
2 - 4	2.38	4.50	24.00	4 sps @ 48" = 16'-0"	2.00	37F023020	65.28
3 - 6	3.50	6.63	30.00	3 sps @ 60" = 15'-0"	2.00	37F023030	98.61
4 - 8	4.50	8.63	30.00	3 sps @ 60" = 15'-0"	2.00	37F023040	115.38
6 - 10	6.63	10.75	30.00	3 sps @ 60" = 15'-0"	2.00	37F023060	161.32
8 - 12	8.63	12.75	30.00	3 sps @ 60" = 15'-0"	3.00	37F023080	220.07

NOTE: 10' lengths available upon request.
Fuseal Squared® Double Containment is available in NFR (Non-Flame Retardant).



Primary Coupling (S x S)

Size (in)	N (in)	Mfg Part #	Price $
1 1/2	0.06	527001	22.33
2	0.06	527002	28.21
3	0.13	527003	35.68
4	0.13	527004	50.42
6	0.19	527006	80.12
8	0.25	527008	356.81

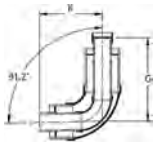
NOTE:
Fuseal Squared® Double Containment is available in NFR (Non-Flame Retardant) Contact Sales Department for Information
1-800-849-3030



Closure Coupling (S x S)

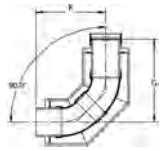
Size (in)	L (in)	Mfg Part #	Price $
4	6.00	607004	132.47
6	8.00	607006	161.32
8	8.00	607008	341.87
10	8.00	607010	675.18
12	8.00	607012	819.40

Fuseal Squared® Double Containment Corrosive Waste Electrofusion Fittings - PPFR



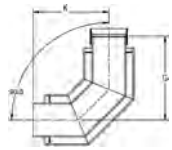
1/4 Bend
(Molded x Molded) (Spg x S)

Size (in)	G (in)	K (in)	Mfg Part #	Price $
1 1/2 x 4	11.00	9.00	606251	470.06
2 x 4	11.00	9.00	606252	470.06
3 x 6	16.00	12.00	606253	591.85



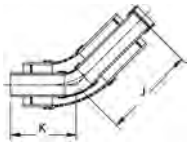
1/4 Bend
(Molded x Fabricated) (Spg x S)

Size (in)	G (in)	K (in)	Mfg Part #	Price $
4 x 8	17.00	13.00	606254	POA
6 x 10	19.00	16.00	606256	POA



1/4 Bend
(Fabricated x Fabricated) (Spg x S)

Size (in)	G (in)	K (in)	Mfg Part #	Price $
8 x 12	21.00	19.00	606258	POA



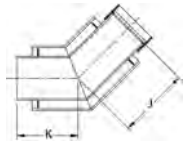
1/8 Bend
(Molded x Molded) (Spg x S)

Size (in)	J (in)	K (in)	Mfg Part #	Price $
1 1/2 x 4	11.00	8.00	606501	379.26
2 x 4	11.00	8.00	606502	379.26
3 x 6	14.00	10.00	606503	470.06



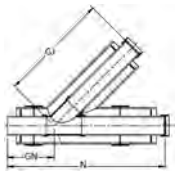
1/8 Bend
(Molded x Fabricated) (Spg x S)

Size (in)	J (in)	K (in)	Mfg Part #	Price $
4 x 8	12.00	9.00	606504	POA
6 x 10	13.00	10.00	606506	POA



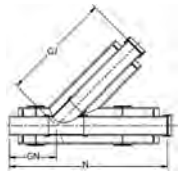
1/8 Bend
(Fabricated x Fabricated) (Spg x S)

Size (in)	J (in)	K (in)	Mfg Part #	Price $
8 x 12	14.00	12.00	606508	POA



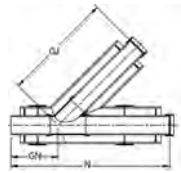
45° Wye
(Molded x Molded) (Spg x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
1 1/2 x 4	15.00	7.00	22.00	606301	1167.67
2 x 4	15.00	7.00	22.00	606302	1167.67
3 x 6	20.00	8.00	28.00	606303	1395.23



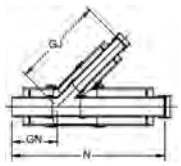
45° Wye
(Molded x Fabricated) (Spg x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
4 x 8	20.00	11.31	31.31	606304	POA
6 x 10	26.00	12.25	38.25	606306	POA



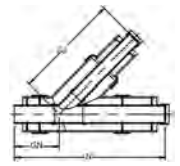
45° Wye
(Fabricated x Fabricated) (Spg x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
8 x 12	31.00	15.00	46.00	606308	POA



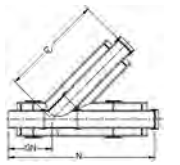
45° Wye Reducing
(Molded x Molded) (Spg x S x S)

Size (in)	Reduced (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 4	1 1/2 x 4	15.00	7.00	22.00	556322	1182.63
3 x 6	1 1/2 x 4	18.00	7.00	25.00	556323	1311.90
3 x 6	2 x 4	18.00	7.00	25.00	556324	1311.90



45° Wye Reducing
(Molded x Fabricated) (Spg x S x S)

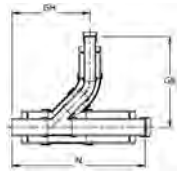
Size (in)	Reduced (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
4 x 8	2 x 4	15.75	11.31	31.31	606325	POA
4 x 8	3 x 6	18.50	11.31	31.31	606326	POA
6 x 10	3 x 6	22.00	12.25	38.25	606327	POA
6 x 10	4 x 8	25.00	12.25	38.25	606328	POA



45° Wye Reducing
(Fabricated x Fabricated) (Spg x S x S)

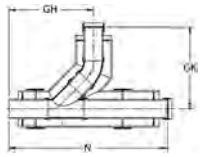
Size (in)	Reduced (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
8 x 12	4 x 8	24.00	15.00	46.00	606329	POA
8 x 12	6 x 10	26.00	15.00	46.00	606330	POA

Fuseal Squared® Double Containment Corrosive Waste Electrofusion Fittings - PPFR



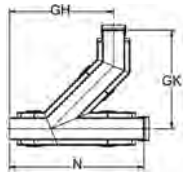
Combo Wye & 1/8 Bend (Molded x Molded) (Spg x S x S)

Size (in)	GH (in)	GK (in)	N (in)	Mfg Part #	Price $
1 1/2 x 4	15.25	18.00	23.50	607301	1456.12
2 x 4	15.25	18.00	23.50	607302	1456.12
3 x 6	18.00	24.00	28.00	607303	1637.73



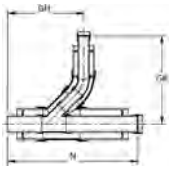
Combo Wye & 1/8 Bend (Molded x Fabricated) (Spg x S x S)

Size (in)	GH (in)	GK (in)	N (in)	Mfg Part #	Price $
4 x 8	20.00	20.00	31.31	607304	POA
6 x 10	25.25	25.25	38.25	607306	POA



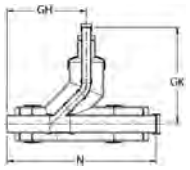
Combo Wye & 1/8 Bend (Fabricated x Fabricated) (Spg x S x S)

Size (in)	GH (in)	GK (in)	N (in)	Mfg Part #	Price $
8 x 12	30.00	30.00	46.00	607308	POA



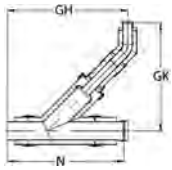
Combo Wye & 1/8 Bend Reducing (Molded x Molded) (Spg x S x S)

Size (in)	Reduced (in)	GH (in)	GK (in)	N (in)	Mfg Part #	Price $
2 x 4	1 1/2 x 4	15.25	18.00	23.50	607322	1478.56
3 x 6	1 1/2 x 4	16.00	20.50	26.00	607323	1834.30
3 x 6	2 x 4	16.00	20.50	26.00	607324	1834.30



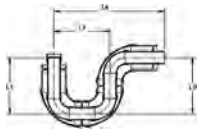
Combo Wye & 1/8 Bend Reducing (Molded x Fabricated) (Spg x S x S)

Size (in)	Reduced (in)	GH (in)	GK (in)	N (in)	Mfg Part #	Price $
4 x 8	2 x 4	20.00	17.00	31.31	607325	POA
4 x 8	3 x 6	20.00	19.00	31.31	607326	POA
6 x 10	3 x 6	25.25	24.25	38.25	607327	POA
6 x 10	4 x 8	25.25	26.25	38.25	607328	POA



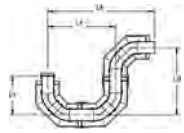
Combo Wye & 1/8 Bend Reducing (Fabricated x Fabricated) (Spg x S x S)

Size (in)	Reduced (in)	GH (in)	GK (in)	N (in)	Mfg Part #	Price $
8 x 12	4 x 8	26.00	24.00	46.00	607329	POA
8 x 12	6 x 10	28.00	26.00	46.00	607330	POA



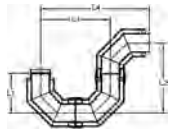
P-Trap (Molded x Molded) (Spg x S)

Size (in)	L1 (in)	L2 (in)	L3 (in)	L4 (in)	Mfg Part #	Price $
1 1/2 x 4	7.25	9.13	9.44	19.00	607201	1591.79
2 x 4	7.25	9.13	9.44	19.00	607202	1591.79
3 x 6	12.00	15.00	15.00	27.00	607203	2061.86



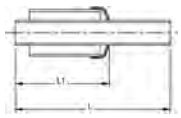
P-Trap (Molded x Fabricated) (Spg x S)

Size (in)	L1 (in)	L2 (in)	L3 (in)	L4 (in)	Mfg Part #	Price $
4 x 8	14.00	24.25	24.25	38.25	607204	POA
6 x 10	16.25	28.25	28.25	44.25	607206	POA



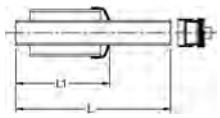
P-Trap (Fabricated x Fabricated) (Spg x S)

Size (in)	L1 (in)	L2 (in)	L3 (in)	L4 (in)	Mfg Part #	Price $
8 x 12	18.25	32.31	32.31	50.31	607208	POA



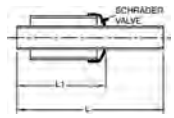
Termination Fitting (Spg x Spg)

Size (in)	L (in)	L1 (in)	Mfg Part #	Price $
1 1/2 x 4	18.00	10.75	608001	477.54
2 x 4	18.00	11.25	608002	477.54
3 x 6	22.00	13.25	608003	516.00
4 x 8	22.00	13.50	608004	POA
6 x 10	22.00	8.00	608006	POA
8 x 12	22.00	8.00	608008	POA



Cleanout Adapter with Plug Assembly (Loose) (Spg x Spg)

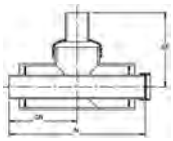
Size (in)	L (in)	L1 (in)	Mfg Part #	Price $
1 1/2 x 4	18.00	10.75	607701A	502.11
2 x 4	18.00	11.25	607702A	506.38
3 x 6	22.00	13.25	607703A	569.41
4 x 8	22.00	13.50	607704A	POA
6 x 10	22.00	8.00	607706A	POA
8 x 12	22.00	8.00	607708A	POA



Test Fitting (Spg x Spg)

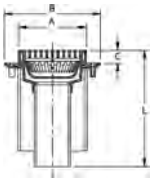
Size (in)	L (in)	L1 (in)	Mfg Part #	Price $
1 1/2 x 4	18.00	10.75	608501	486.08
2 x 4	18.00	11.25	608502	486.08
3 x 6	22.00	13.25	608503	523.47
4 x 8	22.00	13.50	608504	POA
6 x 10	22.00	8.00	608506	POA
8 x 12	22.00	8.00	608508	POA

Fuseal Squared® Double Containment Corrosive Waste Electrofusion Fittings - PPFR



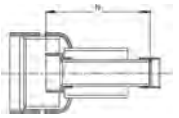
Access Tee
(4" Access) (Spg x Spg x S)

Size (in)	GK (in)	GN (in)	N (in)	Mfg Part #	Price $
1 1/2 x 4	11.00	11.00	22.00	607901	682.66
2 x 4	11.00	11.00	22.00	607902	682.66
3 x 6	13.00	13.00	26.00	607903	POA
4 x 8	13.00	13.00	26.00	607904	POA
6 x 10	17.00	17.00	34.00	607906	POA
8 x 12	18.00	18.00	36.00	607908	POA



Floor Drain
(Spg)

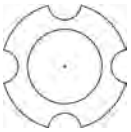
Size (in)	A (in)	B (in)	C (in)	L (in)	Mfg Part #	Price $
2 x 4	8.50	12.00	1.63	13.63	607752	1030.93
3 x 6	8.50	12.00	1.63	13.63	607753	1160.20
4 x 8	8.50	12.00	1.63	14.63	607754	1478.56
6 x 10	8.50	12.00	1.63	22.63	607756	2016.99



Pipe Increaser
(Spg x S)

Size (in)	Reduced (in)	N (in)	Mfg Part #	Price $
2 X 4	1 1/2 X 4	1.61	607022	168.79
3 X 6	1 1/2 X 4	9.38	607023	1030.93
3 X 6	2 X 4	9.38	607024	1030.93
4 X 8	2 X 4	10.50	607025	POA
4 X 8	3 X 6	9.00	607026	POA
6 x 10	3 x 6	14.00	607027	POA
6 x 10	4 x 8	12.00	607028	POA
8 x 12	4 x 8	18.00	607029	POA
8 x 12	6 x 10	15.00	607030	POA

NOTE:
Fuseal Squared® Double Containment is available in NFR (Non-Flame Retardant) Contact Sales Department for Information
1-800-849-3030



Centralizer

Size (in)	Mfg Part #	Price $
1 1/2 x 4	557801	65.28
2 x 4	557802	75.86
3 x 6	557803	86.42
4 x 8	557804	95.51
6 x 10	557806	103.09
8 x 12	557808	115.38

All prices subject to change without notice.

ALSCO™ Double Contained Piping Systems



When Leaks are not an option,

Alsco Offers the following Double Containment Solution

Guardian PVC and CPVC pressure and drainage systems

Encase™ Polypro drainage systems

CustomGuard™ FRP and metal pressure systems

Centra-Guard™ leak detection systems

System Features

- PVC, CPVC, Polypro, PVDF, FRP, Metal and others
- Any combination for the Carrier or Containment pipe
- Pre-assembled components that guarantee reliability
- Ease of installation, fewer joints (up to 40% less)
- Leak detection system



Guardian Vinyl Double Containment Systems

For more than 15 years, Guardian systems have been the bench in pressure and drainage double containment. Guardian systems are available in tough industrial grade PVC and even tougher high-temperature CPVC. Guardian's patented Centra-Lock design requires up to 40 per cent fewer joints.

Guardian		
Materials	Carrier	Containment
Xirtec140 PVC	1/2" - 12"	2" - 18"
Corzan CPVC	1/2" - 12"	2" - 18"



Encase™ Acid Waste PP Double Containment Systems

At the heart of our patented Encase polypro system is its electro-fusion fitting with a groundbreaking heavy-gauge resistance wire molded into the socket. The result is a premier system that offers considerable reduction of installation time and the highest quality bubble-tight joints available.

Encase		
Material	Carrier	Containment
Polypro	1 1/2" - 8"	4" - 12"



The CustomGuard™ Double Containment Systems

Custom-designed and fabricated double containment systems including dissimilar material systems. CustomGuard includes a variety of different system choices ranging from PVDF, FRP, and carbon and stainless steel to hybrid combinations

CustomGuard		
Material	Carrier	Containment
Polypro	1 1/2" - 8"	4" - 12"





Centra-Guard™ Leak Detection System

Innovative and patented leak-detection system ... The initial cost is offset tenfold by the savings realized in avoiding the much higher costs of an environmental cleanup or lost production. No cables to string during installation, no false alarms due to condensation and always re-usable.

ALSCO™ Double Contained Piping Systems

Protection You Can count on, from the ground up ... Your system will be engineered and designed around your specifications and needs.

Features:

- Pre - Fab Pipe and Fittings - many combinations
- Easy installation
- 100% Pre-tested and Assembled
- Engineered and Pre-Fab systems available
- Multiple primary pipe in one contained shell
- Dual contained valve boxes
- Dual contained expansion joints, loops and or offsets
- Systems can be purchased as individual components or a complete fabricated system with very few field joints required.

3

We offer a wide selection of materials and pressure ranges to choose from. This section shows some common material combinations and sizing selections available to meet your requirements. When selecting the material and its thickness, always consider temperature, pressure and chemical compatibility.

NOTE: PRICING ON APPLICATION

Please contact our Technical Sales Rep for your individual system requirements.

Thermoplastic Dual Containment Piping Material Combinations

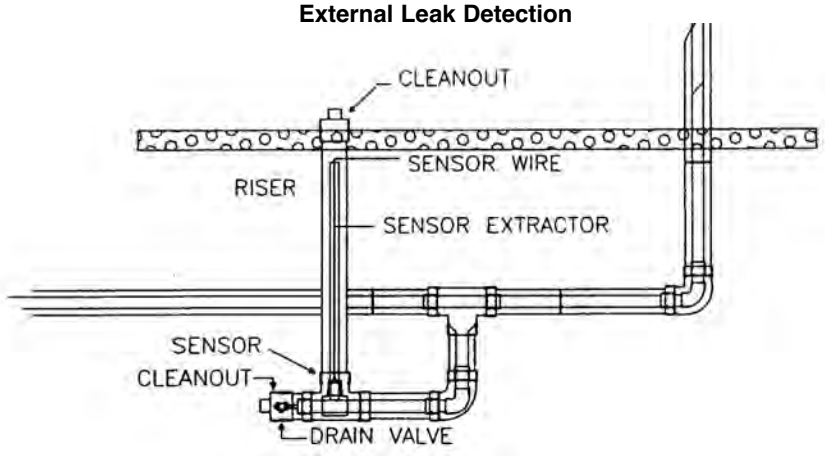
PVC80 / PVC80	CPVC40 / PVC40	PVDF / PVDF
PVC80 / PVC40	CPVC80 / CPVC80	HDPE / HDPE
PVC40 / PVC40	CPVC80 / CPVC40	PVC80 / FRP
CPVC80 / PVC80	PP / PP	PVC40 / FRP
CPVC80 / PVC40	PP / PE	CPVC80 / FRP
CPVC40 / PVC80	PVDF / PP	CPVC40 / FRP

SYSTEM SIZING

CARRIER	CONTAINMENT
1	3
1 1/2	4
2	4
3	6
4	8
6	10
8	12
10	16
12	18

UNDER GROUND INSTALLATION

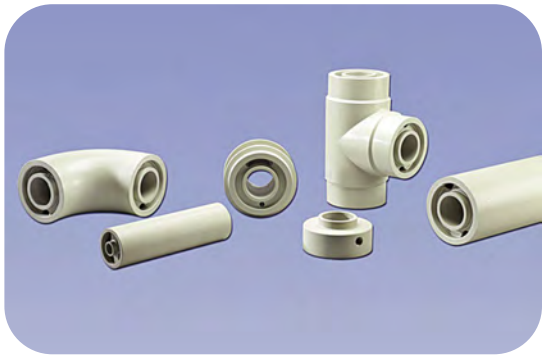
External Leak Detection



NOTE: A typical underground leak detection station. The drip leg arrangement is also double contained.

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com

ALSCO™ Double Contained Piping Systems



Duo-Pro® by ASAHI

Asahi offers two complete double-containment systems and provides the industry's most comprehensive technical support, from AutoCAD for fast and easy system layout, to material scheduling and contractor training.

THE SAFE WAY IS THE BEST WAY

Duo-Pro®

Price on Application

Duo-Pro® System Features

- Any combination of PP, HDPE, PVDF, or Halar®
- Components joined by reliable thermal butt fusion
- To 150 psi pressure in carrier and containment
- Accepts many leak detection and location systems
- Choice of field fabrication from components or pre-fabrication
- Size ranges for all pressure or drainage systems
- Unique specialty fittings, such as dogbone fittings to control differential expansion
- Supporting devices on inner carrier pipe prevent sagging or buckling
- Containment piping can be compartmentalized, creating leak zones, and can be designed for continuos draining

Duo-Pro® Dimensions

Duo-Pro sizes range from 1/2" carrier pipe to 20" containment pipe, with numerous combinations in between. Pipe made of PVDF (230 and 150 psi), PE and PP (150 and 45 psi), and Halar (150 psi) can be mixed and matched.

Standard Size Combinations Carrier x Containment	
1" x 3"	2" x 4"
3" x 6"	4" x 8"
6" x 10"	10" x 14"
8" x 12"	14" x 18"
12" x 16"	16" x 20"

Fuseal® PP Corrosive Waste Pipe - PPFR and PPNFR



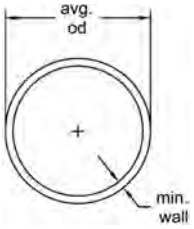
Fuseal® PP is resistant to the corrosive action of alkalis, alcohols, acids, solvents and salt solutions. Dilute mineral acids and aqueous solutions of acid salts, which are so destructive to most metals, have no affect on the Fuseal PP system. In general, Fuseal PP is attacked only by strong oxidizing acids and weakened by certain organic solvents and chlorinated hydrocarbons. Fuseal PP will not rust, pit, scale, corrode or be affected by electrolysis.

Fuseal PP piping systems have excellent chemical resistance and physical properties which make the system ideal for handling corrosive waste mixtures of acids, bases and solvents present in laboratory, industrial or food and beverage processing DWV applications.

Advantages:
- Low installation cost with maintenance-free service
- Chemical and corrosion resistance
- High temperature, intermittent discharges up to 212°F (100°C)
- Both electrofusion and mechanical joints
- Can be used for pressurized drainage applications up to 50 psi.
- Easy to operate electrofusion machines

Technical Data:
- Size Range: 1 1/2" - 18" Schedule 40, 1 1/2" - 12" Schedule 80
- Pressure Rating: 30 foot (15 PSI) maximum head pressure test for DWV applications, Up to 50 PSI for pressure waste applications (subject to manufacturers review of design)
- Operating Temperature: 32°F - 212°F (0°C - 100°C)
- Joining Technology: Electrofusion, Mechanical Joint, Butt Fusion
- Standard Ratings: ASTM F1412, ASTM D3311, ASTM D4101, ASTM F1290, ASTM D635, NSF cw, CSA
- Materials: Polypropylene Non-Flame Retardant Pipe (PPNFR), Polypropylene Flame Retardant (PPFR)

Fields of Application:
- Corrosive Waste Drainage
- Life Sciences
- Chemical Process Industry
- Shipbuilding/Marine
- Food and Beverage





Schedule 40 PPFR

Size (in)	Length (ft)	Avg. OD (in)	Min. Wall (in)	Mfg Part #	Price $
1 1/2	10	1.900	0.145	37A013015	5.98
2	10	2.375	0.154	37A013020	7.79
3	10	3.500	0.216	37A013030	15.60
4	10	4.500	0.237	37A013040	20.08
6	10	6.625	0.280	37A013060	40.06
8	20	8.625	0.322	37A023080	81.94
10	20	10.750	0.365	37A023100	129.27
12	20	12.750	0.406	37A023120	164.53

NOTE: 1 1/2" - 6" Available in 20' lengths upon request

Schedule 80 PPFR

Size (in)	Length (ft)	Avg. OD (in)	Min. Wall (in)	Mfg Part #	Price $
1 1/2	10	1.900	0.200	37A011015	8.09
2	10	2.375	0.281	37A011020	10.45
3	10	3.500	0.300	37A011030	19.54
4	10	4.500	0.337	37A011040	26.96
6	10	6.625	0.432	37A011060	53.23

NOTE: 20' lengths available upon request



Schedule 40 PPNFR

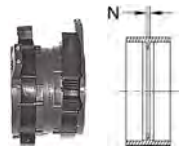
Size (in)	Length (ft)	Avg. OD (in)	Min. Wall (in)	Mfg Part #	Price $
1 1/2	20	1.900	0.145	37B023015	4.48
2	20	2.375	0.154	37B023020	5.98
3	20	3.500	0.216	37B023030	12.29
4	20	4.500	0.237	37B023040	15.60
6	20	6.625	0.280	37B023060	31.20
8	20	8.625	0.322	37B023080	71.26
10	20	10.750	0.365	37B023100	106.84
12	20	12.750	0.406	37B023120	136.74
14	20	14.000	0.437	37B023140	237.16
16	20	16.000	0.500	37B023160	334.38
18	20	18.000	0.562	37B023180	455.10

Schedule 80 PPNFR

Size (in)	Length (ft	Avg. OD (in)	Min. Wall (in)	Mfg Part #	Price $
1 1/2	20	1.900	0.200	37B021015	7.05
2	20	2.375	0.281	37B021020	9.30
3	20	3.500	0.300	37B021030	17.09
4	20	4.500	0.337	37B021040	24.14
6	20	6.625	0.432	37B021060	46.04
8	20	8.625	0.500	37B021080	121.78
10	20	10.750	0.593	37B021100	175.21
12	20	12.750	0.687	37B021120	258.54

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Fuseal® PP Corrosive Waste Electrofusion Fittings - PPFR



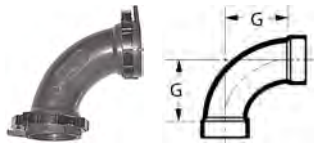
Coupling (S x S)

Size (in)	N (in)	Mfg Part #	Price $
1 1/2	0.06	527001	22.33
2	0.06	527002	28.21
3	0.13	527003	35.68
4	0.13	527004	50.42
6	0.19	527006	80.12



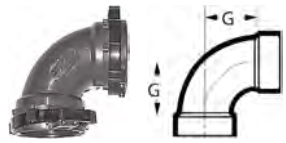
Sleeve Coupling (S x S)

Size (in)	L (in)	Mfg Part #	Price $
1 1/2	1.56	527041	60.90
2	1.81	527042	72.75
3	2.00	527043	148.49
4	2.00	527044	116.44
6	2.69	527046	166.66



1/4 Bend (91.2°) Long Sweep (S x S)

Size (in)	G (in)	Mfg Part #	Price $
1 1/2	2.75	526276	31.20
2	3.25	526277	54.91
3	4.06	526278	68.27
4	4.94	526279	99.46
6	11.00	526280F	576.90



1/4 Bend (91.2°) Short Sweep (S x S)

Size (in)	G (in)	Mfg Part #	Price $
1 1/2	1.75	526251	28.21
2	2.31	526252	54.91
3	3.06	526253	59.40
4	3.88	526254	96.47
6	5.63	526256	230.75



1/4 Bend (91.2°) - Street (S x SPG)

Size (in)	G (in)	K (in)	Mfg Part #	Price $
1 1/2	1.75	3.11	526451	33.44
2	2.31	3.70	526452	43.05
3	3.06	4.75	526453	54.91
4	3.88	5.38	526454	93.47
6	11.00	10.81	526456F	499.97



1/4 Bend (90°) - Vent (S x S)

Size (in)	G (in)	Mfg Part #	Price $
1 1/2	1.19	526201	40.06
2	1.50	526202	44.55
3	1.88	526203	66.77



1/6 Bend (60°) (S x S)

Size (in)	J (in)	Mfg Part #	Price $
1 1/2	1.00	526601	56.41
2	1.31	526602	63.78
3	1.69	526603	69.76
4	2.06	526604	100.85



1/8 Bend (45°) (S x S)

Size (in)	J (in)	Mfg Part #	Price $
1 1/2	1.13	526501	26.71
2	1.50	526502	34.19
3	1.75	526503	62.28
4	2.19	526504	69.76
6	3.37	526506	193.36



1/8 Bend (45°) - Street (S x SPG)

Size (in)	J (in)	K (in)	Mfg Part #	Price $
1 1/2	1.13	2.44	526401	21.58
2	1.50	2.50	526402	23.07
3	1.75	3.25	526403	49.68
4	2.19	3.25	526404	57.91
6	3.38	4.75	526406	158.11



1/12 Bend (30°) (S x S)

Size (in)	J (in)	Mfg Part #	Price $
1 1/2	0.75	526951	50.42
2	0.88	526952	56.41
3	1.25	526953	62.28
4	1.50	526954	90.48



1/12 Bend (30°) - Street (S x SPG)

Size (in)	J (in)	K (in)	Mfg Part #	Price $
1 1/2	0.75	1.88	526461	46.47
2	0.88	2.26	526462	51.92
3	1.25	2.56	526463	57.37
4	1.50	2.81	526464	83.23



1/16 Bend (22.5°) (S x S)

Size (in)	J (in)	Mfg Part #	Price $
1 1/2	0.50	526551	26.71
2	0.69	526552	37.18
3	0.81	526553	69.76
4	1.00	526554	80.12



1/24 Bend (15°) (S x S)

Size (in)	J (in)	Mfg Part #	Price $
1 1/2	0.62	526971	46.47
2	0.63	526972	51.92
3	0.81	526973	57.37
4	0.87	526974	83.23



1/24 Bend (15°) - Street (S x SPG)

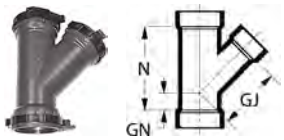
Size (in)	J (in)	K (in)	Mfg Part #	Price $
1 1/2	0.62	1.51	526961	46.47
2	0.63	1.75	526962	51.92
3	0.81	2.12	526963	57.37
4	0.88	2.18	526964	83.23



3-Way Ell (91.2°) (S x S x S)

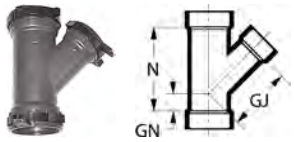
Size (in)	G (in)	Mfg Part #	Price $
1 1/2	1.75	526261	65.28
2	2.31	526262	93.47

Fuseal® PP Corrosive Waste Electrofusion Fittings - PPFR



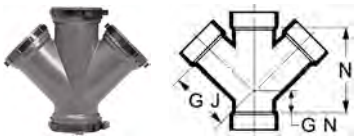
45° Wye (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
1 1/2	2.88	1.13	4.00	526301	38.57
2	3.63	1.38	5.00	526302	53.41
3	5.00	1.63	6.63	526303	88.99
4	6.38	1.88	8.25	526304	129.27
6	9.13	1.63	10.75	526306	334.38



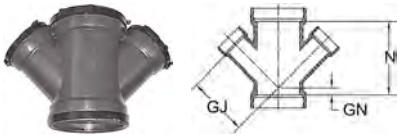
45° Wye - Reducing (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2	3.44	1.06	4.38	526325	50.42
3 x 3 x 1 1/2	4.63	0.88	5.00	526324	93.47
3 x 3 x 2	4.63	0.88	5.00	526326	100.85
4 x 4 x 2	5.56	0.38	5.06	526328	119.65
4 x 4 x 3	6.00	1.06	6.63	526327	126.06
6 x 6 x 2	6.75	1.13	4.73	526342	201.91
6 x 6 x 3	7.43	0.19	6.38	526343	223.28
6 x 6 x 4	7.75	0.68	7.73	526344	231.82



45° Wye - Double (S x S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
1 1/2	3.50	1.13	4.63	526380	65.28
2	4.00	1.38	5.38	526381	93.47
3	5.00	1.63	7.63	526382	129.27
4	6.38	1.88	9.25	526383	201.91
6	12.18	6.18	18.38	526351F	994.61



45° Wye - Double Reducing (S x S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2 x 1 1/2	3.44	1.06	5.38	526384	88.99
3 x 3 x 1 1/2 x 1 1/2	4.31	0.50	5.25	526389	138.89
3 x 3 x 2 x 2	4.63	0.88	6.00	526385	148.49
4 x 4 x 2 x 2	5.56	0.38	6.06	526386	238.24
4 x 4 x 3 x 3	6.00	1.06	7.63	526387	238.24
6 x 6 x 3 x 3	9.94	1.75	12.38	526390T	1179.42
6 x 6 x 4 x 4	10.13	2.25	12.38	526388T	1179.42



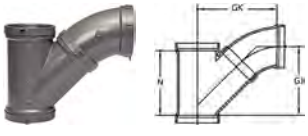
Long Turn Tee Wye (91.2°) (S x S x S)

Size (in)	G (in)	N (in)	Mfg Part #	Price $
1 1/2	3.94	3.63	527301	46.79
2	5.13	4.44	527302	59.40
3	7.56	6.50	527303	100.85
4	9.82	8.75	527304	138.89



Long Turn Tee Wye (91.2°) - Reducing (S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2	3.94	4.19	3.63	527320	56.41
3 x 3 x 1 1/2	3.94	4.75	3.81	527326	84.61
3 x 3 x 2	5.13	5.69	4.75	527327	88.99
4 x 4 x 2	5.13	6.13	4.50	527337	126.06
4 x 4 x 3	7.56	8.06	6.50	527338	131.40



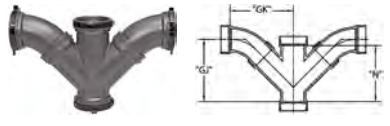
Combo Wye & 1/8 Bend (90°) (S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
6	11.41	13.18	10.75	527306F	475.40



Combo Wye & 1/8 Bend (90°) - Reducing (S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
6 x 6 x 2	5.44	8.06	4.73	527344F	460.44
6 x 6 x 3	7.00	9.19	6.38	527339F	460.44
6 x 6 x 4	8.44	9.94	7.73	527340F	485.02

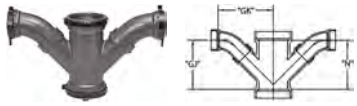


Combo Wye (90°) - Double (S x S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
1 1/2	5.31	5.31	4.63	526801	99.46
2	5.98	6.10	5.38	526802	124.99
3	7.47	7.59	7.63	526803	148.49
4	8.69	9.00	9.25	526804	247.85
6	18.18	15.44	18.38	526806F	1278.77

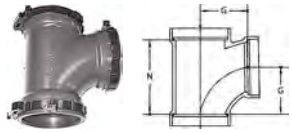
ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
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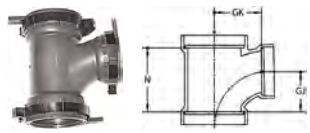
Combo Wye (90°) - Double Reducing (S x S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2 x 1 1/2	5.22	5.27	5.38	526825	116.44
3 x 3 x 1 1/2 x 1 1/2	5.27	5.89	5.25	526824	174.13
3 x 3 x 2 x 2	5.91	6.54	6.00	526826	185.89
4 x 4 x 2 x 2	6.08	7.20	6.06	526828	323.70
4 x 4 x 3 x 3	7.61	8.29	7.63	526827	323.70
6 x 6 x 3 x 3	11.18	11.18	12.38	526843T	1527.70
6 x 6 x 4 x 4	11.81	11.75	12.38	526844T	1527.70



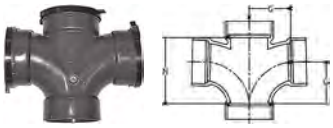
Sanitary Tee (91.2°) (S x S x S)

Size (in)	G (in)	N (in)	Mfg Part #	Price $
1 1/2	1.75	2.75	526151	35.68
2	2.31	3.69	526152	41.56
3	3.06	4.88	526153	83.11
4	3.88	6.13	526154	124.99
6	14.25	18.38	526156F	831.15



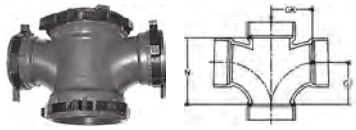
Sanitary Tee (91.2°) - Reducing (S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2	1.96	2.21	3.17	526126	41.56
3 x 3 x 1 1/2	1.75	2.56	2.68	526131	74.25
3 x 3 x 2	2.13	2.88	3.31	526130	83.11
4 x 4 x 2	2.06	3.31	3.19	526134	112.18
4 x 4 x 3	3.00	3.56	4.75	526136	121.78
6 x 6 x 2	3.93	6.00	6.13	526137F	385.66
6 x 6 x 3	3.93	6.40	6.13	526138F	385.66
6 x 6 x 4	3.93	4.90	6.13	526139	408.09



Sanitary Tee (91.2°) - Double (S x S x S x S)

Size (in)	G (in)	N (in)	Mfg Part #	Price $
1 1/2	1.75	2.75	526187	74.25
2	2.31	3.69	526186	100.85
3	3.06	4.88	526183	131.40
4	3.88	6.13	526185	166.66



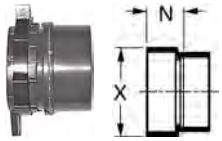
Sanitary Tee (91.2°) - Double Reducing (S x S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2 x 1 1/2	1.94	2.19	3.13	526188	102.34
3 x 3 x 1 1/2 x 1 1/2	2.13	4.38	3.31	526184F	129.27
3 x 3 x 2 x 2	2.13	2.88	3.31	5261181	138.89
4 x 4 x 2 x 2	3.88	5.01	6.13	526190F	262.80
4 x 4 x 3 x 3	3.88	5.38	6.13	526191F	270.29



Pipe Increaser (S x S)

Size (in)	N (in)	Mfg Part #	Price $
1 1/2 x 2	0.53	527022	35.68
1 1/2 x 3	2.63	527023F	74.25
2 x 3	0.88	527024	43.05
2 x 4	1.38	527025	66.77
3 x 4	0.94	527026	69.76
3 x 6	1.81	527027F	289.52
4 x 6	1.63	527028F	315.15



Reducer Bushing (SPG x S)

Size (in)	N (in)	X (in)	Mfg Part #	Price $
2 x 1 1/2	1.61	2.38	526752	25.22
3 x 1 1/2	1.50	3.50	526762	26.71
3 x 2	1.50	3.50	526754	28.21
4 x 2	1.13	4.50	526758	59.40
4 x 3	1.50	4.50	526756	63.78
6 x 4	1.28	6.63	526767	116.44



Cap (S)

Size (in)	HL (in)	Mfg Part #	Price $
1 1/2	0.53	527081	20.08
2	0.32	527082	23.07
3	0.91	527083	38.57
4	1.09	527084	74.25
6	1.56	527087	121.78



Male Adapter (S x MPT)

Size (in)	HL (in)	Mfg Part #	Price $
1 1/2	1.18	526871	17.85
2	1.25	526872	20.84
3	1.84	526873	35.68
4	2.00	526874	74.25
6	3.50	526876F	215.80



Female Adapter (S x FPT)

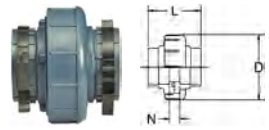
Size (in)	HL (in)	Mfg Part #	Price $
1 1/2	1.12	526891	26.71
2	1.15	526892	28.21
3	1.72	526893	50.42
4	1.81	526894	78.63
6	2.82	526896	141.02

Fuseal® PP Corrosive Waste Electrofusion Fittings - PPFR



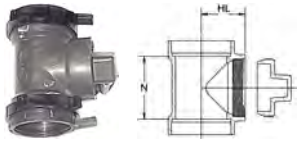
Flange - Van Stone ANSI 150 lb. Pattern (S)

Size (in)	# Holes	Bolt Hole Dia. (in)	Bolt Cir. Dia. (in)	D (in)	N (in)	W (in)	Mfg Part #	Price $
1 1/2	4	0.56	3.88	5.00	0.31	0.75	526931	74.25
2	4	0.68	4.75	6.00	0.34	0.81	526932	78.63
3	4	0.75	6.00	7.50	0.44	1.00	526933	158.11
4	8	0.75	7.50	9.00	0.42	1.10	526934	200.85
6	8	0.88	9.50	11.00	0.45	1.26	526936	274.56



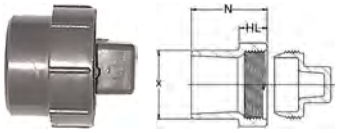
Union (PPFR x PPFR) / PPFR Nut (S x S)

Size (in)	D (in)	L (in)	N (in)	EPDM Part #	FPM Part #	Price $
1 1/2	3.75	3.38	0.63	527271	528291	88.99
2	4.63	3.75	0.75	527272	528292	103.85
3	6.75	4.68	0.90	527273	528293	148.49
4	8.50	5.54	1.00	527274	528294	201.91



Cleanout Tee with Plug (S x S x FT)

Size (in)	HL (in)	N (in)	Mfg Part #	Price $
1 1/2	1.82	2.12	526114A	44.55
2	2.13	2.74	526115A	47.54
3	2.63	3.75	526116A	100.85
4	3.38	5.00	526117A	136.74
6	7.75	18.00	526118AF	1113.19



Cleanout Adapter with Plug (SPG x FT)

Size (in)	HL (in)	N (in)	X (in)	Mfg Part #	Price $
1 1/2	0.78	2.09	1.90	527701A	23.82
2	0.78	2.22	2.38	527702A	28.21
3	1.09	2.66	3.50	527703A	51.92
4	1.13	2.94	4.50	527704A	100.85
6	1.31	2.63	6.63	527706A	201.91



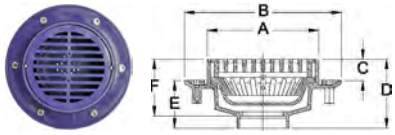
Plug (MT)

Size (in)	L (in)	Q (in)	Mfg Part #	Price $
1	0.99	0.75	527049	16.34
1 1/2	1.56	1.00	527051	17.85
2	1.54	1.25	527052	19.34
3	2.03	1.63	527053	22.33
4	2.16	2.00	527054	35.68
6	2.38	2.38	527057	44.55



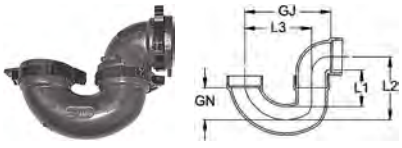
Countersunk Plug for Cleanout (MT)

Size (in)	L (in)	Q (in)	Mfg Part #	Price $
3	1.03	1.31	527063	20.84
4	1.16	1.63	527064	35.68



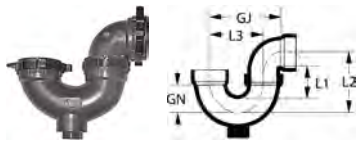
Floor Drain (S)

Size (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Mfg Part #	Price $
2	8.50	12.00	1.63	6.69	5.06	5.81	527749F	319.42
3	8.50	12.00	1.63	5.25	3.63	4.31	527750	385.66
4	8.50	12.00	1.63	5.25	3.63	4.31	527751	415.58
6	8.50	12.00	1.63	7.26	5.63	6.00	527752F	519.21



P-Trap (S x S)

Size (in)	GJ (in)	GN (in)	L1 (in)	L2 (in)	L3 (in)	Mfg Part #	Price $
1 1/2	4.71	1.68	2.06	3.64	3.50	527201	56.41
2	6.94	2.44	2.71	4.75	5.06	527202	78.63
3	8.88	2.79	3.41	6.43	6.75	527203	148.49
4	10.75	3.88	3.88	8.06	8.50	527204	259.60
6	20.88	5.63	9.19	15.25	15.25	527206F	675.18



P-Trap with Cleanout (S x S)

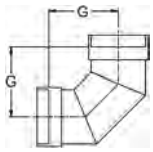
Size (in)	GJ (in)	GN (in)	L1 (in)	L2 (in)	L3 (in)	Mfg Part #	Price $
1 1/2	4.71	1.68	2.06	3.64	3.50	527201A	68.27
2	6.94	2.44	2.71	4.75	5.06	527202A	100.85
3	8.88	2.79	3.41	6.43	6.75	527203A	185.89
4	10.75	3.88	3.88	8.06	8.50	527204A	311.95

Additional Fuseal® Fittings Available:

- Pipe Adapters
- Union Adapters
- Expansion Joints
- Transition Fittings
- Floor Drains
- Floor Cleanouts
- P-traps
- Jar Traps
- Drum Traps
- Sink Strainers
- Sink Strainer Adapters

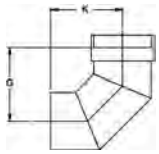
Contact Sales Department for Information
1-800-849-3030

Fuseal® PP Corrosive Waste Electrofusion LD Fittings - PPFR



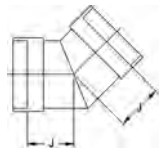
1/4 Bend (90°) - 3 Segment (S x S)

Size (in)	G (in)	Mfg Part #	Price $
8	12.25	526258F	2152.66
10	14.25	526255F	2487.05
12	16.25	526257F	2918.65



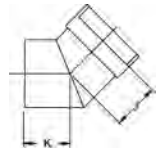
1/4 Bend (90°) - Street (S x SPG)

Size (in)	G (in)	K (in)	Mfg Part #	Price $
8	12.25	12.00	526458F	1743.49
10	14.25	14.00	526455F	1941.13
12	16.25	16.00	526457F	2289.41



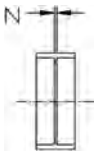
1/8 Bend (45°) (S x S)

Size (in)	J (in)	Mfg Part #	Price $
8	6.94	526508F	1781.96
10	7.75	526505F	1986.00
12	8.50	526507F	2411.20



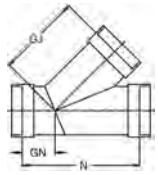
1/8 Bend (45°) - Street (S x SPG)

Size (in)	J (in)	K (in)	Mfg Part #	Price $
8	6.94	6.69	526408F	1365.31
10	7.75	7.25	526405F	1463.60
12	8.50	8.25	526407F	1767.00



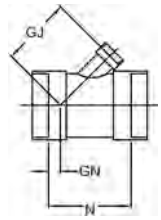
Coupling (S x S)

Size (in)	N (in)	Mfg Part #	Price $
8	0.25	527008	356.81
10	0.25	527100	425.20
12	0.25	527120	516.00



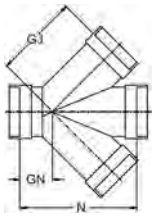
45° Wye (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
8	15.50	7.00	22.50	526308F	3525.45
10	20.75	7.75	28.50	526305F	3979.48
12	22.00	8.50	30.50	526300F	4912.13



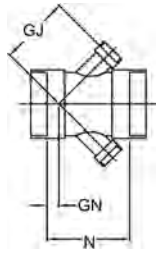
45° Wye - Reducing (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
8 x 8 x 3	10.50	1.50	12.00	526347T	2122.75
8 x 8 x 4	11.00	2.00	13.00	526346T	2281.93
8 x 8 x 6	12.50	3.50	16.00	526345T	2805.40
10 x 10 x 3	12.00	2.00	14.00	526321T	3979.48
10 x 10 x 4	12.63	2.13	14.75	526322T	3979.48
10 x 10 x 6	14.50	4.00	18.50	526323T	3979.48
10 x 10 x 8	15.75	5.25	21.00	526324T	4040.38
12 x 12 x 4	14.00	1.50	15.50	526332T	4146.14
12 x 12 x 6	15.50	3.00	18.50	526333T	4207.04
12 x 12 x 8	17.25	4.50	24.75	526334T	4297.85
12 x 12 x 10	19.25	6.00	25.25	526335T	6025.32



45° Wye - Double (S x S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
8	15.50	7.00	22.50	526352F	2805.40
10	20.75	7.75	28.50	526355F	4927.08
12	22.00	8.50	30.50	526350F	5512.53



45° Wye - Double Reducing (S x S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
8 x 8 x 3 x 3	10.50	1.50	12.00	526393T	2918.65
8 x 8 x 4 x 4	11.00	2.00	13.00	526391T	3055.39
8 x 8 x 6 x 6	12.50	3.50	16.00	526392T	3161.15
10 x 10 x 3 x 3	13.18	2.18	15.38	526370T	3873.72
10 x 10 x 4 x 4	12.63	2.13	14.75	526371T	3964.54
10 x 10 x 6 x 6	14.50	4.00	18.50	526372T	4214.52
10 x 10 x 8 x 8	15.75	5.25	21.00	526373T	4488.01
12 x 12 x 4 x 4	14.00	1.50	15.50	526394T	4488.01
12 x 12 x 6 x 6	15.50	3.00	18.50	526395T	4488.01
12 x 12 x 8 x 8	17.25	4.50	21.75	526396T	4586.29
12 x 12 x 10 x 10	19.25	6.00	25.25	526397T	5139.68



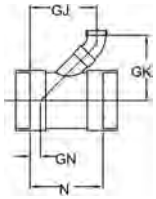
Pipe Increaser (S x S)

Size (in)	N (in)	Mfg Part #	Price $
8 X 3	2.00	527035F	849.31
8 X 4	1.75	527034F	1122.80
8 X 6	1.63	527033F	1221.09
10 X 3	1.00	527040F	1410.19
10 X 4	1.18	527030F	1515.95
10 X 6	1.50	527031F	1691.14
10 X 8	2.13	527032F	2335.34
12 X 4	1.00	527036F	2152.66
12 X 6	1.50	527037F	2281.93
12 X 8	2.00	527038F	2433.63
12 X 10	3.00	527039F	2531.92

NOTE:
Fuseal® LD Fusion NFR (Non-Flame Retardant)
Fittings Available in Sizes 8" - 18"

Contact Sales Department for Information
1-800-849-3030

Fuseal® PP Corrosive Waste Electrofusion LD Fittings - PPFR

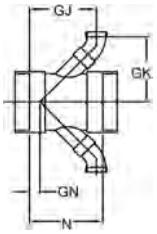


Combo Wye & 1/8 Bend (90°) - Reducing (S x S x S)

Size (in)	GJ (in)	GK (in)	GN (in)	N (in)	Mfg Part #	Price $
8 x 8 x 3	11.25	11.50	1.50	12.00	526709T	2933.61
8 x 8 x 4	12.00	12.25	2.00	13.00	526717T	2994.49
8 x 8 x 6	15.69	15.56	3.50	16.00	526715T	3040.43
10 x 10 x 3	12.81	12.56	2.00	14.00	526707T	4207.04
10 x 10 x 4	13.38	13.44	2.13	14.75	526721T	4282.89
10 x 10 x 6	17.63	17.00	4.00	18.50	526711T	4343.78
10 x 10 x 8	21.13	22.75	5.25	21.00	526712T	4669.62
12 x 12 x 4	13.69	14.38	1.50	15.50	526720T	4813.85
12 x 12 x 6	17.31	17.69	3.00	18.50	526718T	4904.65
12 x 12 x 8	21.44	23.81	4.50	21.75	526719T	5139.68
12 x 12 x 10	24.88	26.69	6.00	25.25	526710T	5267.88

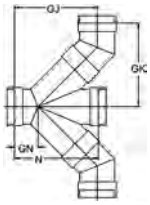
NOTE:
Fuseal® LD Fusion NFR (Non-Flame Retardant) Fittings Available in Sizes 8" - 18"

Contact Sales Department for Information
1-800-849-3030



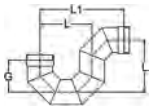
Combo Wye (90°) - Double Reducing (S x S x S x S)

Size (in)	GJ (in)	GK (in)	GN (in)	N (in)	Mfg Part #	Price $
8 x 8 x 3 x 3	11.25	11.50	1.50	12.00	526809T	3266.92
8 x 8 x 4 x 4	12.00	12.25	2.00	13.00	526817T	3547.89
8 x 8 x 6 x 6	15.69	15.56	3.50	16.00	526815T	3736.98
10 x 10 x 3 x 3	12.81	12.56	2.00	14.00	526807T	3153.68
10 x 10 x 4 x 4	13.38	13.44	2.13	14.75	526821T	4958.07
10 x 10 x 6 x 6	17.63	17.00	4.00	18.50	526811T	5267.88
10 x 10 x 8 x 8	21.13	22.75	5.25	21.00	526812T	5510.39
12 x 12 x 4 x 4	13.69	14.38	1.50	15.50	526820T	6087.28
12 x 12 x 6 x 6	17.31	17.69	3.00	18.50	526818T	6352.23
12 x 12 x 8 x 8	21.44	23.81	4.50	21.75	526819T	6541.32
12 x 12 x 10 x 10	24.88	26.69	6.00	25.25	526810T	6814.80



Combo Wye (90°) - Double (S x S x S x S)

Size (in)	GJ (in)	GK (in)	GN (in)	N (in)	Mfg Part #	Price $
8	22.63	22.63	7.00	22.50	526816F	4669.62
10	27.75	27.75	7.75	28.50	526800F	6441.96
12	30.00	30.00	8.50	30.50	526801F	8223.92



P-Trap (S x S)

Size (in)	G (in)	L (in)	L1 (in)	Mfg Part #	Price $
8	12.25	18.25	30.50	527208F	5048.88
10	14.25	22.25	36.50	527210F	5987.93
12	16.25	26.50	42.75	527212F	6746.43



Cap (S)

Size (in)	HL (in)	Mfg Part #	Price $
8	1.81	527088	245.71
10	3.38	527090F	849.31
12	3.38	527092F	1030.93



Male Adapter (S x MPT)

Size (in)	HL (in)	Mfg Part #	Price $
8	4.38	216878F	705.09

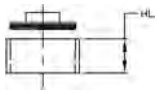
NOTE: NFR Only



Flange - Van Stone ANSI 150 lb. Pattern (S)

Size (in)	# Holes	Bolt Hole Dia. (in)	Bolt Cir. Dia. (in)	D (in)	N (in)	R (in)	Mfg Part #	Price $
8	8	0.88	11.75	13.50	0.44	1.71	216928	751.03
10	12	1.00	14.25	16.00	0.50	1.73	216930	1030.93
12	12	1.00	17.00	19.00	0.50	1.71	216932	1121.73

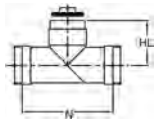
NOTE: NFR Only



Cleanout Adapter with Plug (SPG x FT)

Size (in)	HL (in)	Mfg Part #	Price $
8	4.00	217708AF	1402.70
10	5.00	217710AF	2061.86
12	5.00	217712AF	2622.72

NOTE: NFR Only



Cleanout Tee with Plug (S x S x FT)

Size (in)	HL (in)	N (in)	Mfg Part #	Price $
8	11.00	22.50	216119AF	3274.40
10	14.00	28.50	216120AF	4305.33
12	15.00	30.50	216121AF	5230.49

NOTE: NFR Only

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 041619

Fuseal 25/50™ PVDF

Fuseal 25/50™ PVDF Corrosive Waste Pipe and Electrofusion Fittings



Fuseal 25/50™ PVDF piping systems are engineered to solve many of the problems associated with return air plenum piping or handling aggressive chemicals at elevated temperatures.

PVDF provides a very broad range of chemical resistance, thermal stability as well as a low flame spread and smoke density when tested in accordance to the ASTM E84.

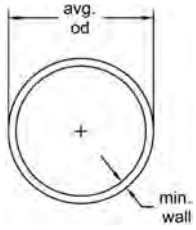
Advantages:
- Can withstand intermittent temperatures up to 284°F (140°C)
- UL certified to be installed in air plenum areas due to its flame and smoke retardance
- Outstanding chemical and corrosion resistance
- Maintenance-free service with low installation cost
- Electrofusion joints
- Easy to operate electrofusion machines

3

Technical Data:
- Size Range: 1 1/2" - 6"
- Pressure Rating: 30 foot (15 PSI) maximum head pressure test for DWV applications, Up to 50 PSI for pressure waste applications (subject to manufacturers review of design)
- Operating Temperature: -4°F - 284°F (-20°C - 140°C)
- Joining Technology: Electrofusion
- Standard Ratings: ASTM D1599, ASTM D2122, ASTM D3222, ASTM D3311, ASTM D4101, ASTM E84, ASTM F1290, ASTM F1673, UL 723, NFPA 255
- Material: Polyvinylidene Fluoride (PVDF)

Fields of Application:
- Corrosive Waste Drainage for return air plenums
- Corrosive Waste Drainage at elevated temperatures
- Life Sciences
- Chemical Process Industry
- Food and Beverage





Schedule 40 PVDF

Size (in)	Length (ft)	Avg. OD (in)	Min. Wall (in)	Mfg Part #	Price $
1 1/2	10	1.900	0.145	37C013015	53.45
2	10	2.375	0.154	37C013020	74.72
3	10	3.500	0.216	37C013030	149.44
4	10	4.500	0.237	37C013040	217.07
6	10	6.625	0.280	37C013060	572.67

NOTE: 20' lengths available upon request



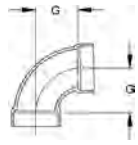
Coupling (S x S)

Size (in)	N (in)	Mfg Part #	Price $
1 1/2	0.13	588001	49.53
2	0.13	588002	56.40
3	0.19	588003	77.23
4	0.19	588004	112.36
6	0.19	588006	143.99



1/4 Bend (91.2°) - Long Sweep (S x S)

Size (in)	G (in)	Mfg Part #	Price $
1 1/2	2.75	588276	104.17
2	3.25	588277	148.35
3	4.06	588278	290.16
4	4.94	58879	598.85
6	11.00	588256F	2078.00



1/4 Bend (91.2°) - Short Sweep (S x S)

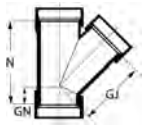
Size (in)	G (in)	Mfg Part #	Price $
1 1/2	1.75	589276	97.19
2	2.31	589277	131.99
3	3.06	589278	304.34
4	3.88	589279	590.13



1/8 Bend (45°) (S x S)

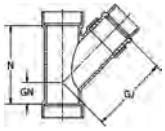
Size (in)	J (in)	Mfg Part #	Price $
1 1/2	1.13	589501	91.96
2	1.50	589502	110.17
3	1.75	589503	313.06
4	2.19	589504	503.96
6	6.25	588506F	1244.00

Fuseal 25/50™ PVDF Corrosive Waste Electrofusion Fittings



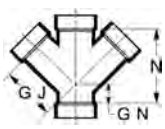
45° Wye (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
1 1/2	2.88	1.13	4.00	585301	148.35
2	3.63	1.38	5.00	585302	236.71
3	5.00	1.63	6.63	585303	503.96
4	6.38	1.88	8.25	585304	807.20
6	12.19	6.19	18.38	588306F	2488.00



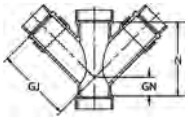
45° Wye - Reducing (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2	5.06	1.38	5.00	588915	225.80
3 x 3 x 1 1/2	6.06	0.88	5.00	588917	321.79
3 x 3 x 2	4.63	0.88	5.00	588916	321.79
4 x 4 x 2	5.56	0.38	5.06	588918	703.57
4 x 4 x 3	7.47	1.88	8.25	588919	703.57
6 x 6 x 3	9.94	1.75	12.38	588330T	2196.00
6 x 6 x 4	10.13	2.25	12.38	588331T	2289.00



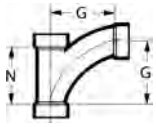
45° Wye - Double (S x S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
1 1/2	3.50	1.13	4.63	589380	281.43
2	4.00	1.38	5.38	589381	495.23
3	5.00	1.63	7.63	589382	859.56
4	6.38	1.88	9.25	589383	1127.89
6	12.19	6.19	18.38	585396F	3276.00



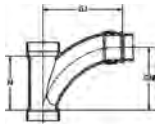
45° Wye - Double Reducing (S x S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2 x 1 1/2	5.44	1.13	5.38	585381	712.29
3 x 3 x 1 1/2 x 1 1/2	6.50	1.63	7.63	585382	911.92
3 x 3 x 2 x 2	6.50	1.63	7.63	585383	436.33
4 x 4 x 2 x 2	7.50	1.88	9.25	585384	1718.02
4 x 4 x 3 x 3	7.47	1.88	9.25	585385	1874.01
6 x 6 x 3 x 3	15.38	6.25	20.38	585387T	2915.74
6 x 6 x 4 x 4	15.38	6.25	20.38	585388T	2915.74



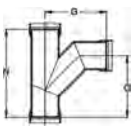
Long Turn Tee Wye (91.2°) (S x S x S)

Size (in)	G (in)	N (in)	Mfg Part #	Price $
1 1/2	3.94	3.50	584301	207.25
2	5.13	4.44	584302	295.61
3	7.56	6.50	584303	781.02
4	10.00	8.50	584304	1232.61



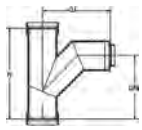
Long Turn Tee Wye (91.2°) - Reducing (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2	6.56	5.16	4.44	584320	281.43
3 x 3 x 1 1/2	9.06	7.59	6.50	584321	390.51
3 x 3 x 2	9.06	7.59	6.50	584322	390.51
4 x 4 x 2	10.95	9.84	8.50	584323	789.75
4 x 4 x 3	10.91	9.84	8.50	584324	789.75



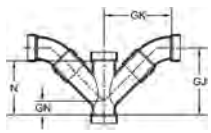
Combo Wye & 1/8 Bend (90°) (S x S x S)

Size (in)	G (in)	N (in)	Mfg Part #	Price $
6	14.25	20.38	589306T	3388.00



Combo Wye & 1/8 Bend (90°) - Reducing (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
6 x 6 x 3	9.88	9.88	12.38	589330T	2143.44
6 x 6 x 4	10.88	10.81	12.38	589331T	2143.44

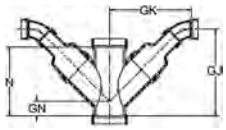


Combo Wye (90°) - Double (S x S x S x S)

Size (in)	GJ (in)	GK (in)	GN (in)	N (in)	Mfg Part #	Price $
1 1/2	5.63	5.63	1.13	4.63	587191	469.05
2	6.69	6.81	1.38	5.38	587192	703.57
3	7.91	8.03	1.63	7.63	587193	1500.96
4	9.60	10.13	1.88	9.25	587194	2299.43
6	19.13	19.19	6.19	18.38	587196F	4355.00

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Fuseal 25/50™ PVDF Corrosive Waste Electrofusion Fittings



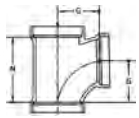
Combo Wye (90°) - Double Reducing (S x S x S x S)

Size (in)	GJ (in)	GK (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2 x 1 1/2	8.36	8.11	1.13	5.38	587181	878.11
3 x 3 x 1 1/2 x 1 1/2	9.67	9.15	1.63	7.63	587182	1094.08
3 x 3 x 2 x 2	9.94	9.81	1.63	7.63	587183	1171.53
4 x 4 x 2 x 2	11.34	10.96	1.88	9.25	587184	1822.75
4 x 4 x 3 x 3	11.52	11.38	1.88	9.25	587185	2056.18
6 x 6 x 3 x 3	9.88	9.88	1.75	12.38	587187T	4250.88
6 x 6 x 4 x 4	10.88	10.81	2.25	12.38	587188T	4250.88

Additional Fuseal 25/50™ PVDF Fittings Available:

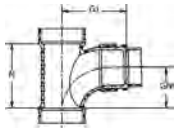
- Pipe Adapters
- Floor Cleanouts
- Strainers
- Sink Strainer Adapters
- Trap Primers

Contact Sales Department for Information
1-800-849-3030



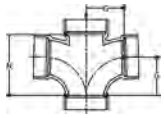
Sanitary Tee (91.2°) (S x S x S)

Size (in)	G (in)	N (in)	Mfg Part #	Price $
1 1/2	1.75	2.75	589151	142.89
2	2.31	3.69	589152	217.07
3	3.06	4.88	589153	451.60
4	3.88	6.13	589154	703.57



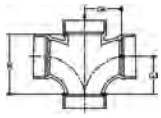
Sanitary Tee (91.2°) - Reducing (S x S x S)

Size (in)	GJ (in)	GN (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2	3.74	2.34	3.69	589915	225.80
3 x 3 x 1 1/2	4.56	3.09	4.88	589917	339.24
3 x 3 x 2	4.56	3.09	4.88	589916	295.61
4 x 4 x 2	5.00	3.88	6.13	589918	1440.96
4 x 4 x 3	4.97	3.88	6.13	589919	1440.96



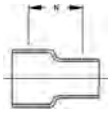
Sanitary Tee (91.2°) - Double (S x S x S x S)

Size (in)	G (in)	N (in)	Mfg Part #	Price $
2	2.31	3.69	589182	445.05
3	3.06	4.88	589183	835.56



Sanitary Tee (91.2°) - Double Reducing (S x S x S x S x S)

Size (in)	GJ (in)	GK (in)	N (in)	Mfg Part #	Price $
2 x 2 x 1 1/2 x 1 1/2	2.31	3.75	3.69	589115	640.31
3 x 3 x 1 1/2 x 1 1/2	3.06	4.56	4.88	589117	1085.36
3 x 3 x 2 x 2	3.06	4.56	4.88	589116	1132.26



Pipe Increaser (SPG x SPG)

Size (in)	N (in)	Mfg Part #	Price $
2 x 1 1/2	3.19	588421	65.99
3 x 1 1/2	3.62	588431	142.89
3 x 2	3.50	588432	165.80
4 x 2	4.00	588442	208.35
4 x 3	3.68	588443	217.07



Reducer Bushing (SPG x S)

Size (in)	L (in)	N (in)	X (in)	Mfg Part #	Price $
2 x 1 1/2	2.31	1.43	2.38	588752	67.74
3 x 1 1/2	2.26	1.50	3.50	588762	136.35
3 x 2	2.38	1.50	3.50	588754	163.62
4 x 2	2.00	1.13	4.50	588758	225.80
4 x 3	2.03	1.09	4.50	588756	251.98
6 x 4	2.19	1.28	6.63	588446	651.21



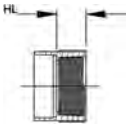
Cap (S)

Size (in)	HL (in)	Mfg Part #	Price $
1 1/2	0.65	588081	67.74
2	0.75	588082	76.36
3	1.62	588083	165.80
4	2.11	588084	225.80
6	1.58	588086	304.34



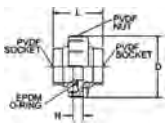
Male Adapter (S x MPT)

Size (in)	HL (in)	Mfg Part #	Price $
1 1/2	1.19	589871	57.26
2	1.25	589872	78.11
3	1.84	589873	165.80
4	2.00	589874	217.07
6	3.50	589876	521.41



Female Adapter (S x FPT)

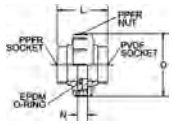
Size (in)	HL (in)	Mfg Part #	Price $
1 1/2	1.13	589891	57.26
2	1.16	589892	78.11
3	1.72	589893	165.80
4	1.84	589894	217.07
6	3.25	589896	521.41



Union (PVDF x PVDF) / PVDF Nut (S x S)

Size (in)	D (in)	L (in)	N (in)	EPDM Part #	FPM Part #	Price $
1 1/2	3.75	3.38	0.63	588261	588271	111.26
2	4.63	3.75	0.75	588262	588272	148.35
3	6.75	4.68	0.90	588263	588273	243.25
4	8.50	5.54	1.00	588264	588274	347.97

Fuseal 25/50™ PVDF Corrosive Waste Electrofusion Fittings



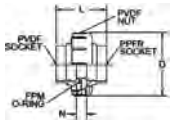
Union (PPFR x PVDF) / PPFR Nut (S x S)

Size (in)	D (in)	L (in)	N (in)	EPDM Part #	Price $	FPM Part #	Price $
1 1/2	3.75	3.38	0.63	588281	78.11	589291	91.96
2	4.63	3.75	0.75	588282	113.44	589292	122.17
3	6.75	4.68	0.90	588283	199.62	589293	225.80
4	8.50	5.54	1.00	588284	313.06	589294	330.52

Additional Fuseal 25/50™ PVDF Fittings Available:

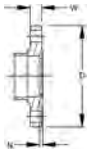
- Pipe Adapters
- Floor Cleanouts
- Strainers
- Sink Strainer Adapters
- Trap Primers

Contact Sales Department for Information
1-800-849-3030



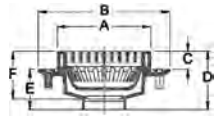
Union (PVDF x PPFR) / PVDF Nut (S x S)

Size (in)	D (in)	L (in)	N (in)	EPDM Part #	Price $	FPM Part #	Price $
1 1/2	3.75	3.38	0.63	589281	78.11	588291	91.96
2	4.63	3.68	0.75	589282	113.44	588292	122.17
3	6.75	4.75	0.90	589283	199.62	588293	225.80
4	8.50	5.54	1.00	589284	313.06	588294	330.52



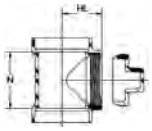
Flange - Solid ANSI 150 lb. Pattern (S)

Size (in)	# Holes	Bolt Hole Dia. (in)	Bolt Cir. Dia. (in)	D (in)	N (in)	W (in)	Mfg Part #	Price $
1 1/2	4	1	4	5.00	0.16	0.66	588921	208.35
2	4	1	5	6.00	0.14	0.75	588922	225.80
3	4	1	6	7.50	0.16	0.94	588923	399.23
4	8	1	8	9.00	0.16	1.14	588924	495.23
6	8	1	10	10.94	0.25	1.02	588926	659.94



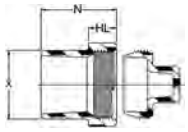
Floor Drain (S)

Size (in)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Mfg Part #	Price $
3	8.50	12.00	1.63	5.25	3.63	4.31	589750	998.09
4	8.50	12.00	1.63	5.25	3.63	4.31	589751	1102.81



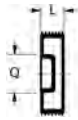
Cleanout Tee with Plug (S x S x FT)

Size (in)	HL (in)	N (in)	Mfg Part #	Price $
1 1/2	1.82	2.12	588114A	260.71
2	2.13	2.74	588115A	313.06
3	2.63	3.75	588116A	616.31
4	3.38	5.00	588117A	1041.73
6	7.75	18.00	588118AF	3904.01



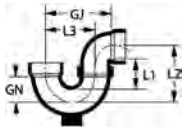
Cleanout Adapter with Plug (Spg x FT)

Size (in)	HL (in)	N (in)	X (in)	Mfg Part #	Price $
1 1/2	0.78	2.09	1.90	588701	76.36
2	0.78	2.22	2.38	588702	98.94
3	1.09	2.66	3.50	588703	217.07
4	1.13	2.94	4.50	588704	281.43
6	1.31	2.63	6.63	588706	703.57



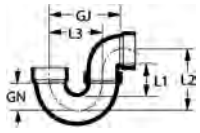
Countersink Plug for Cleanout (MT)

Size (in)	L (in)	Q (in)	Mfg Part #	Price $
3	1.03	1.31	589063	165.80
4	1.16	1.63	589064	231.25



P-Trap with Cleanout (S x S)

Size (in)	GJ (in)	GN (in)	L1 (in)	L2 (in)	L3 (in)	Mfg Part #	Price $
1 1/2	4.71	1.68	2.06	3.64	3.50	588201	347.97
2	6.94	2.44	2.71	4.75	5.06	588202	477.78
3	8.88	2.79	3.41	6.43	6.75	588203	1085.36
4	10.75	3.88	3.88	8.06	8.50	588204	1787.84



P-Trap (S x S)

Size (in)	GJ (in)	GN (in)	L1 (in)	L2 (in)	L3 (in)	Mfg Part #	Price $
1 1/2	4.71	1.68	2.06	3.64	3.50	588991	330.52
2	6.94	2.44	2.71	4.75	5.06	588992	460.33
3	8.88	2.79	3.41	6.43	6.75	588993	1085.36
4	10.75	3.88	3.88	8.06	8.50	588994	1778.02
6	28.06	11.19	10.81	17.44	16.88	588996F	7548.40

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PROGEF® Standard PP

PROGEF® Euro Gray Standard PP Pipe



PROGEF® Standard system is an optimal solution tailored for a wide variety of industrial applications due to its beneficial properties.

PROGEF® Standard has been designed to be highly resistant to impact, abrasion and many chemicals.

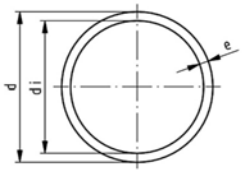
These properties make it the ideal system for industrial applications, for example, chemical production, chemical distribution, galvanization and power stations.

Advantages:
- High quality system solution with a favorable price to performance ratio
- Great surface finish and leach out characteristics
- High impact strength
- High resistance to chemicals and temperatures
- Performs well over a long period of time
- Outstanding weldability

Technical Data:
- Size Range: d16 - d500 mm (3/8" - 20")
- Pressure Rating: d16 - d225 mm, SDR11: PN10 (150 PSI), d50 - d225 mm, SDR17.6: PN6 (90 PSI), d250 - d500 mm, SDR11: PN10 (150 PSI), d250 - d500mm, SDR17.6: PN6 (90 PSI)
- Operating Temperature: 0°C - 80°C (32°F - 176°F)
- Joining Technology: IR Plus Fusion: d20 - d225 mm, Butt Fusion: d20 - d500 mm, Socket Fusion: d16 - d110 mm
- Standard Ratings: FDA CFR 21 177.1520, USP 25 Class VI, ASME-BPE, NSF 61
- Materials: Beta Polypropylene Homopolymer (Beta PP-H)

Fields of Application:
- RO/DI Water Conveyance
- Process Cooling Water
- Chemical Process Industry
- Food Processing



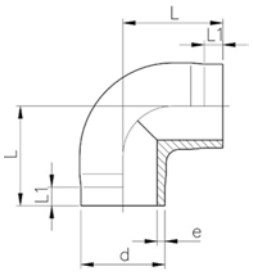


Pipe, PN 10, Standard PP - 5 Meters

Size (mm)	Closest Inch	d (mm)	e (mm)	lbs per meter	Mfg Part #	Price $
16	3/8	16	1.8	0.176	167480710	1.24
20	1/2	20	1.9	0.236	167480711	1.43
25	3/4	25	2.3	0.362	167480712	1.99
32	1	32	2.9	0.575	167480713	2.77
40	1 1/4	40	3.7	0.908	167480714	3.68
50	1 1/2	50	4.6	1.407	167480715	5.57
63	2	63	5.8	2.227	167480716	8.50
75	2 1/2	75	6.8	3.108	167480717	11.82
90	3	90	8.2	4.475	167480718	17.75
110	4	110	10.0	6.636	167480719	25.50
160	6	160	14.6	14.065	167480722	55.37
200	8	200	18.2	21.936	167481724	95.76
225	9	225	20.5	27.778	167481725	118.56
250	10	250	22.7	34.171	167481726	150.15
315	12	315	28.6	54.233	167481728	223.11
355	14	355	32.2	68.784	167481730	351.44
400	16	400	36.3	87.302	167481731	414.95
450	18	450	40.9	110.671	167480731	562.17
500	20	500	45.4	139.551	167480732	620.15

PROGEF® Euro Gray Standard PP Butt Fusion Fittings

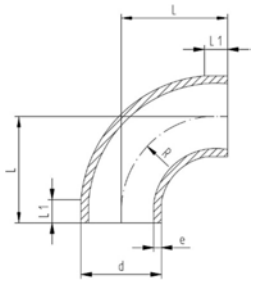




90° Elbow Short Radius, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	L (mm)	L1 (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	38	25	1.9	0.018	727108506	8.87
25	3/4	IR	25	42	26	2.3	0.026	727108507	9.72
32	1	IR	32	46	27	2.9	0.049	727108508	9.72
40	1 1/4	IR	40	51	22	3.7	0.099	727108509	13.35
50	1 1/2	IR	50	58	23	4.6	0.176	727108510	18.27
63	2	IR	63	66	21	5.8	0.304	727108511	25.54

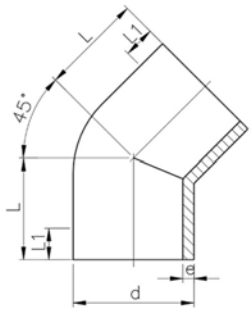




90° Elbow Sweep Radius, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	L (mm)	L1 (mm)	R (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
75	2 1/2	IR	75	100	20	90	6.8	0.511	727018612	36.43
90	3	IR	90	100	20	90	8.2	0.743	727018613	50.96
110	4	IR	110	141	25	130	10.0	1.545	727018614	95.82
160	6	IR	160	175	15	160	14.6	4.486	727018492	205.00
225	9	IR	225	245	20	225	20.5	11.316	727018495	378.00
250	10	-	250	256	48	232	22.7	14.002	727018521	949.73
315	12	-	315	321	48	297	28.6	28.570	727018523	1697.56
355	14	-	355	385	38	355	32.2	42.770	727018574	1589.00
400	16	-	400	438	41	400	36.3	62.728	727018575	2652.00

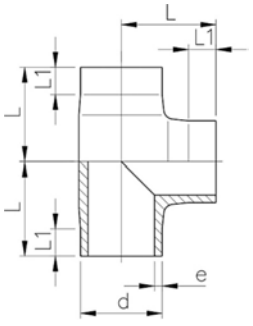




45° Elbow, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	L (mm)	L1 (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	32	24	1.9	0.013	727158506	15.18
25	3/4	IR	25	34	25	2.3	0.022	727158507	15.18
32	1	IR	32	36	25	2.9	0.046	727158508	19.44
40	1 1/4	IR	40	39	25	3.7	0.073	727158509	23.07
50	1 1/2	IR	50	42	26	4.6	0.119	727158510	26.71
63	2	IR	63	47	29	5.8	0.214	727158511	43.69
75	2 1/2	IR	75	49	29	6.8	0.302	727158512	61.86
90	3	IR	90	57	34	8.2	0.489	727158513	73.93
110	4	IR	110	70	43	10.0	0.908	727158514	136.74
160	6	IR	160	100	60	14.6	2.769	727158517	294.86
200	8	IR	200	124	75	18.2	5.397	727158519	465.78
225	9	IR	225	140	85	20.5	7.705	727158520	510.66
250	10	-	250	225	133	22.7	17.394	727158521	1330.06
315	12	-	315	255	154	28.6	25.772	727158523	1670.86





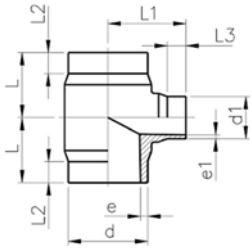
Tee, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	L (mm)	L1 (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	38	24	1.9	0.024	727208506	7.59
25	3/4	IR	25	42	26	2.3	0.040	727208507	7.59
32	1	IR	32	46	26	2.9	0.071	727208508	8.87
40	1 1/4	IR	40	51	22	3.7	0.137	727208509	16.99
50	1 1/2	IR	50	58	22	4.6	0.231	727208510	23.07
63	2	IR	63	66	21	5.8	0.410	727208511	35.14
75	2 1/2	IR	75	75	20	6.8	0.646	727208512	67.95
90	3	IR	90	90	20	8.2	1.149	727208513	98.18
110	4	IR	110	110	20	10.0	2.046	727208514	141.02
160	6	IR	160	160	28	14.6	6.270	727208517	465.78
200	8	IR	200	200	35	18.2	12.300	727208519	728.60
225	9	IR	225	220	35	20.5	17.223	727208520	934.78
250	10	-	250	276	92	22.7	27.293	727208571	1197.59
315	12	-	315	353	118	28.6	40.155	727208573	2271.25
355	14	-	355	345	103	32.2	68.564	727208574	3077.00
400	16	-	400	360	105	36.3	83.776	727208575	4614.00
450	18	-	450	419	135	40.9	127.868	727208576	5074.00
500	20	-	500	465	160	45.4	160.937	727208577	6079.00

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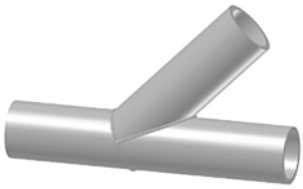
PROGEF® Euro Gray Standard PP Butt Fusion Fittings

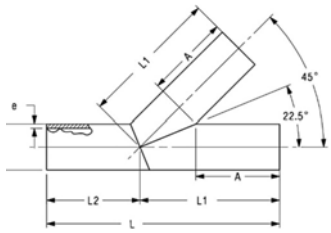




Molded Reducing Tee, PN 10, Standard PP

Size (mm)	Closest Inch	d (mm)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	e (mm)	e1 (mm)	Weight (lb)	Mfg Part #	Price $
63 x 32	2 x 1	63	32	65	70	25	25	5.8	2.9	0.355	727208351	55.60
63 x 40	2 x 1 1/4	63	40	65	70	25	25	5.8	3.7	0.364	727208350	55.60
63 x 50	2 x 1 1/2	63	50	65	70	25	25	5.8	4.6	0.375	727208352	55.60
75 x 32	2 1/2 x 1	75	32	70	75	25	25	6.8	2.9	0.525	727208353	78.30
75 x 50	2 1/2 x 1 1/2	75	50	70	75	25	25	6.8	4.6	0.549	727208354	78.30
75 x 63	2 1/2 x 2	75	63	70	75	25	25	6.8	5.8	0.569	727208355	78.30
90 x 50	3 x 1 1/2	90	50	80	85	25	25	8.2	4.6	0.926	727208357	98.70
90 x 63	3 x 2	90	63	80	85	25	25	8.2	5.8	0.944	727208358	112.00
90 x 75	3 x 2 1/2	90	75	80	85	25	25	8.2	6.8	0.948	727208359	112.00
110 x 32	4 x 1	110	32	90	95	30	25	10.0	2.9	1.437	727208360	141.00
110 x 50	4 x 1 1/2	110	50	90	95	30	25	10.0	4.6	1.453	727208361	143.00
110 x 63	4 x 2	110	63	90	95	30	25	10.0	5.8	1.466	727208362	155.00
110 x 75	4 x 2 1/2	110	75	90	95	30	25	10.0	6.8	1.501	727208363	164.00
110 x 90	4 x 3	110	90	90	95	30	25	10.0	8.2	1.545	727208364	164.00
160 x 63	6 x 2	160	63	142	135	50	30	14.6	5.8	4.696	727208371	421.00
160 x 75	6 x 2 1/2	160	75	142	135	50	30	14.6	6.8	4.725	727208372	421.00
160 x 90	6 x 3	160	90	142	135	50	30	14.6	8.2	4.736	727208373	421.00
160 x 110	6 x 4	160	110	142	135	50	30	14.6	10.0	4.819	727208374	421.00
225 x 90	9 x 3	225	90	155	165	40	30	20.5	8.2	10.088	727208388	956.00
225 x 110	9 x 4	225	110	155	165	40	30	20.5	10.0	10.194	727208389	956.00
225 x 160	9 x 6	225	160	155	165	40	30	20.5	14.6	10.329	727208391	956.00
250 x 160	10 x 6	250	160	276	424	92	55	22.7	14.6	9.987	727208393	2142.00

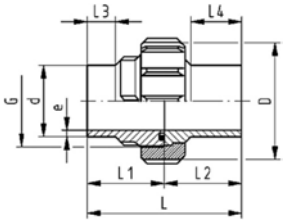




45° Wye, Standard PP

Size (mm)	Closest Inch	L (mm)	L1 (mm)	L2 (mm)	A (mm)	e (mm)	Mfg Part #	Price $
50	1 1/2	371	210	161	150	4.6	157345050	304.00
63	2	389	226	163	150	5.8	157345063	434.00
75	2 1/2	406	241	165	150	6.9	157345075	455.00
90	3	527	309	218	200	8.2	157345090	469.00
110	4	555	333	222	200	10.0	157345110	492.00
160	6	626	393	233	200	14.6	157345160	646.00
200	8	783	491	292	250	18.2	157345200	952.00
225	9	818	522	296	250	20.5	157345225	989.00
250	10	954	602	352	300	22.8	157345250	1124.00
315	12	1146	730	416	350	28.7	157345315	1749.00



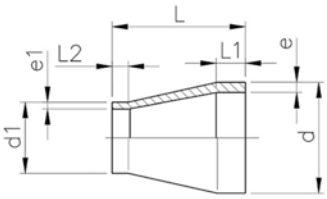


Union, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	D (mm)	G (R/Rp BS Thread) (in.)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	e (mm)	EPDM Mfg Part #	Price $	FPM Mfg Part #	Price $
20	1/2	IR	20	48	1	107	54.0	53.0	13	26	1.9	727518506	41.24	727528506	40.90
25	3/4	IR	25	58	1 1/4	113	57.0	56.0	12	26	2.3	727518507	49.78	727528507	53.40
32	1	IR	32	65	1 1/2	119	60.0	59.0	14	26	2.9	727518508	49.78	727528508	54.50
40	1 1/4	IR	40	79	2	126	63.0	63.0	16	26	3.7	727518509	71.58	727528509	78.30
50	1 1/2	IR	50	91	2 1/4	131	65.5	65.5	19	26	4.6	727518510	89.74	727528510	96.50
63	2	IR	63	111	2 3/4	137	69.0	68.0	20	26	5.8	727518511	118.59	727528511	125.00
75	2 1/2	IR	75	135	S107, 5 X 3, 6	131	66.0	65.5	22	24	6.8	727518512	175.00	727528512	198.00
90	3	IR	90	135	S107, 5 X 3, 6	131	65.5	65.5	22	24	8.2	727518513	205.00	727528513	234.00
110	4	IR	110	158	S127, 5 X 3, 6	131	65.5	65.5	22	25	10.0	727518514	265.00	727528514	301.00

PROGEF® Euro Gray Standard PP Butt Fusion Fittings

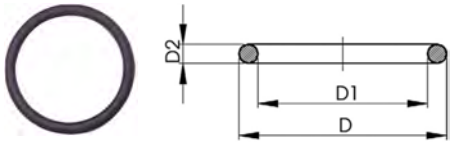




NOTE: Concentric and Eccentric Flush Style Reducers Available

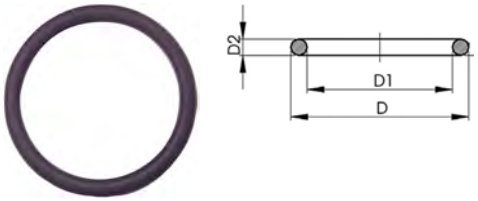
Reducer, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	d1 (mm)	e (mm)	e1 (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
25 x 20	3/4 x 1/2	IR	25	20	2.3	1.9	50	20	20	0.015	727908537	9.50
32 x 20	1 x 1/2	IR	32	20	2.9	1.9	50	20	20	0.022	727908542	13.00
32 x 25	1 x 3/4	IR	32	25	2.9	2.3	50	20	20	0.022	727908541	13.00
40 x 20	1 1/4 x 1/2	IR	40	20	3.7	1.9	58	20	23	0.035	727908548	15.90
40 x 25	1 1/4 x 3/4	IR	40	25	3.7	2.3	55	20	20	0.035	727908547	15.90
40 x 32	1 1/4 x 1	IR	40	32	3.7	2.9	55	20	20	0.040	727908546	15.90
50 x 25	1 1/2 x 3/4	IR	50	25	4.6	2.3	60	20	20	0.053	727908554	19.30
50 x 32	1 1/2 x 1	IR	50	32	4.6	2.9	60	20	20	0.060	727908553	19.30
50 x 40	1 1/2 x 1 1/4	IR	50	40	4.6	3.7	60	20	20	0.066	727908552	19.30
63 x 32	2 x 1	IR	63	32	5.8	2.9	65	20	20	0.095	727908560	21.60
63 x 40	2 x 1 1/4	IR	63	40	5.8	3.7	65	20	20	0.104	727908559	21.60
63 x 50	2 x 1 1/2	IR	63	50	5.8	4.6	65	20	20	0.112	727908558	21.60
75 x 40	2 1/2 x 1 1/4	IR	75	40	6.8	3.7	68	20	20	0.137	727908566	28.40
75 x 50	2 1/2 x 1 1/2	IR	75	50	6.8	4.6	65	20	20	0.157	727908565	28.40
75 x 63	2 1/2 x 2	IR	75	63	6.8	5.8	65	20	20	0.165	727908564	30.34
90 x 63	3 x 2	IR	90	63	8.2	5.8	75	22	19	0.254	727908571	32.90
90 x 75	3 x 2 1/2	IR	90	75	8.2	6.8	75	22	19	0.287	727908570	35.14
110 x 75	4 x 2 1/2	IR	110	75	10.0	6.8	90	28	18	0.474	727908577	41.24
110 x 90	4 x 3	IR	110	90	10.0	8.2	90	28	30	0.496	727908576	38.60
200 x 160	8 x 6	IR	200	160	18.2	14.6	145	50	40	2.533	727908592	280.97
225 x 110	9 x 4	IR	225	110	20.5	10.0	160	55	35	3.274	727908595	263.00
225 x 160	9 x 6	IR	225	160	20.5	14.6	160	55	40	3.446	727908596	334.00
225 x 200	9 x 8	IR	225	200	20.5	18.2	160	55	50	3.799	727908597	276.00
250 x 160	10 x 6	-	250	160	22.7	14.6	194	60	55	3.269	727908990	233.00
250 x 225	10 x 9	-	250	225	22.7	20.5	182	60	55	5.714	727908987	306.00
315 x 225	12 x 9	-	315	225	28.6	20.5	130	30	20	6.299	727908997	378.00
315 x 250	12 x 10	-	315	250	28.6	22.7	100	30	20	7.716	727908996	466.00
355 x 250	14 x 10	-	355	250	32.3	22.7	245	90	60	12.103	727908963	450.00
355 x 315	14 x 12	-	355	315	32.2	28.6	245	90	80	8.157	727908961	1108.00
400 x 315	16 x 12	-	400	315	36.3	28.6	260	95	80	11.684	727908966	1244.00
400 x 355	16 x 14	-	400	355	36.3	32.2	260	95	90	10.582	727908965	2426.00
450 x 315	18 x 12	-	450	315	40.9	28.6	230	60	80	17.637	727908948	3401.00
450 x 355	18 x 14	-	450	355	40.9	32.2	230	60	90	16.314	727908950	4614.00
450 x 400	18 x 16	-	450	400	40.9	36.3	230	60	95	13.228	727908951	4051.00
500 x 315	20 x 12	-	500	315	45.4	28.6	230	60	80	26.455	727908953	3314.00
500 x 355	20 x 14	-	500	355	45.4	32.2	230	60	90	23.810	727908954	6353.00
500 x 400	20 x 16	-	500	400	45.4	36.3	230	60	95	22.046	727908956	6079.00
500 x 450	20 x 18	-	500	450	45.4	40.9	230	60	60	18.298	727908964	5066.00



O-Ring for PROGEF and SYGEF Standard IR/BCF & Socket Fusion Unions

Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	D2 (mm)	Weight (lb)	EPDM Mfg Part #	Price $	FPM Mfg Part #	Price $
16	3/8	16	21	16	3	0.002	748410005	3.20	749410005	3.20
20	1/2	20	27	20	4	0.004	748410006	3.00	749410006	5.00
25	3/4	25	35	28	4	0.004	748410007	3.00	749410007	6.00
32	1	32	40	33	4	0.006	748410008	6.00	749410008	7.00
40	1 1/4	40	51	41	5	0.006	748410009	6.00	749410009	16.00
50	1 1/2	50	58	47	5	0.008	748410010	6.00	749410010	18.00
63	2	63	70	60	5	0.011	748410011	8.00	749410011	19.00



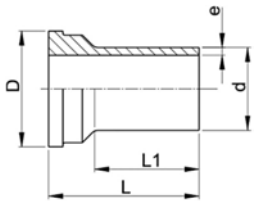
O-Ring for PROGEF and SYGEF Standard IR/BCF Unions

Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	D2 (mm)	Weight (lb)	EPDM Mfg Part #	Price $	FPM Mfg Part #	Price $
75	2 1/2	75	93	82	5.34	0.026	748410014	12.00	749410014	28.00
90	3	90	112	101	5.34	0.033	748410015	18.60	749410015	31.00
110	4	110	134	120	6.99	0.068	748410016	18.60	749410016	49.00

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PROGEF® Euro Gray Standard PP Butt Fusion Fittings

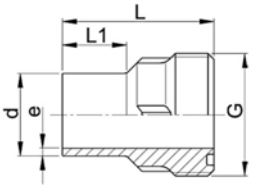




Union End, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	D (mm)	L (mm)	L1 (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	30	54	38	1.9	0.020	727508506	8.00
25	3/4	IR	25	39	57	42	2.3	0.037	727508507	12.00
32	1	IR	32	45	60	41	2.9	0.057	727508508	12.00
40	1 1/4	IR	40	57	63	42	3.7	0.095	727508509	23.00
50	1 1/2	IR	50	63	66	44	4.6	0.128	727508510	23.00
63	2	IR	63	78	69	45	5.8	0.209	727508511	25.00
75	2 1/2	IR	75	101	66	34	6.8	0.322	727508512	34.00
90	3	IR	90	101	66	45	8.2	0.348	727508513	40.90
110	4	IR	110	121	66	40	10.0	0.514	727508514	57.90

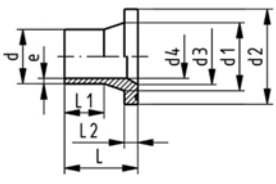




Union Bushing, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	G (R/Rp BS Thread) (in.)	L (mm)	L1 (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	1	54	26	1.9	0.026	727848506	13.70
25	3/4	IR	25	1 1/4	57	26	2.3	0.044	727848507	18.20
32	1	IR	32	1 1/2	60	25	2.6	0.064	727848508	18.20
40	1 1/4	IR	40	2	63	25	3.7	0.104	727848509	26.10
50	1 1/2	IR	50	2 1/4	66	25	4.6	0.137	727848510	26.10
63	2	IR	63	2 3/4	69	25	5.8	0.236	727848511	29.50
75	2 1/2	IR	75	S107, 5 X 3, 6	66	24	6.8	0.379	727848512	56.80
90	3	IR	90	S107, 5 X 3, 6	66	24	8.2	0.401	727848513	70.40
110	4	IR	110	S127, 5 X 3, 6	66	25	10.0	0.569	727848514	95.30



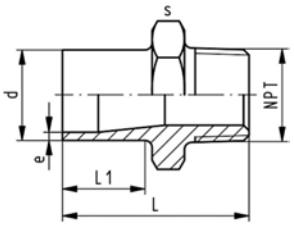


Standard Flange Adaptor, ANSI Serrated, PN 10, Standard PP

Size (mm)	Closest Inch	d (mm)	e (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	20	1.9	26	45	-	16	50	29	7	0.033	727798706	8.30
25	3/4	25	2.3	33	54	-	20	52	27	9	0.049	727798757	9.50
32	1	32	3.0	40	63	-	26	54	28	10	0.086	727798758	13.00
40	1 1/4	40	3.7	50	73	-	32	56	25	11	0.123	727798759	14.20
50	1 1/2	50	4.6	61	82	-	40	62	32	12	0.192	727798760	18.20
63	2	63	5.8	75	102	-	51	68	38	14	0.317	727798711	20.50
75	2 1/2	75	6.9	89	122	66	61	80	43	16	0.536	727798712	23.90
90	3	90	8.2	105	133	78	73	80	41	17	0.683	727798763	35.20
110	4	110	10.0	125	158	100	90	80	40	18	0.972	727798714	39.80
160	6	160	14.6	175	212	151	131	92	45	25	2.028	727798717	87.40
200	8	200	18.2	232	268	203	163	100	30	32	3.682	727798719	131.00
225	9	225	20.5	235	268	210	184	100	35	32	3.671	727798720	146.00
250	10	250	22.7	285	320	254	204	100	25	35	5.035	727798821	246.00
315	12	315	28.6	335	370	309	257	100	25	35	6.594	727798823	291.00
355	14	355	32.2	373	430	346	312	180	90	65	16.391	727798624	976.00
400	16	400	36.3	427	482	404	352	196	95	69	21.204	727798625	2327.00
450	18	450	40.9	467	533	460	396	195	60	108	28.241	727798626	2751.00
500	20	500	45.4	530	585	500	440	188	60	90	31.453	727798627	3502.00

PROGEF® Euro Gray Standard PP Butt Fusion Fittings

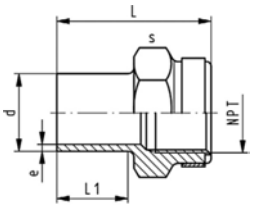




Male Adapter, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	L (mm)	L1 (mm)	s (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	51	23	32	1.9	0.029	727914656	18.27
25	3/4	IR	25	52	23	36	2.3	0.057	727914657	20.62
32	1	IR	32	55	23	46	2.9	0.057	727914658	25.54
40	1 1/4	IR	40	58	24	55	3.7	0.090	727914659	30.34
50	1 1/2	IR	50	60	23	65	4.6	0.137	727914660	50.96
63	2	IR	63	67	26	80	5.8	0.214	727914661	65.48

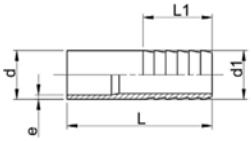




Female Adapter, PN 10, Standard PP

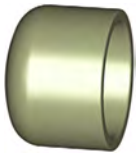
Size (mm)	Closest Inch	FM	d (mm)	L (mm)	L1 (mm)	s (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	49	23	32	1.9	0.037	727914356	21.90
25	3/4	IR	25	51	23	36	2.3	0.049	727914357	25.54
32	1	IR	32	54	23	46	2.9	0.086	727914358	31.52
40	1 1/4	IR	40	56	23	55	3.7	0.126	727914359	36.43
50	1 1/2	IR	50	60	23	65	4.6	0.187	727914360	60.68
63	2	IR	63	62	23	80	5.8	0.269	727914361	66.66

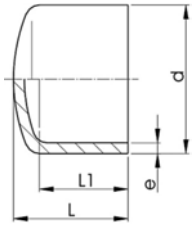




Hose Connector, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	d1 (mm)	L (mm)	L1 (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	20	64	27	1.9	0.015	727968606	12.29
25	3/4	IR	25	25	75	36	2.3	0.031	727968607	14.74
32	1	IR	32	32	82	36	2.9	0.049	727968608	19.44
40	1 1/4	IR	40	40	84	42	3.7	0.071	727968609	26.71
50	1 1/2	IR	50	50	90	48	4.6	0.117	727968610	44.87
63	2	IR	63	63	100	50	5.8	0.194	727968611	50.96

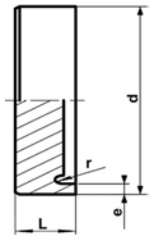




End Cap, PN 10, Standard PP

Size (mm)	Closest Inch	FM	d (mm)	L (mm)	L1 (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	IR	20	42	35	1.9	0.011	727968931	16.48
25	3/4	IR	25	50	42	2.3	0.011	727968932	19.30
32	1	IR	32	55	44	2.9	0.029	727968933	23.90
40	1 1/4	IR	40	65	50	3.7	0.040	727968934	29.50
50	1 1/2	IR	50	70	55	4.6	0.095	727968935	39.80
63	2	IR	63	80	60	5.8	0.176	727968936	53.40
75	2 1/2	IR	75	90	63	6.8	0.278	727968937	80.60
90	3	IR	90	105	76	8.2	0.236	727968938	121.00
110	4	IR	110	125	83	10.0	0.847	727968939	146.00
160	6	IR	160	76	40	14.6	1.508	727968942	217.00
200	8	IR	200	100	50	18.2	2.401	727968944	265.00
225	9	IR	225	103	60	20.5	3.375	727968945	334.00





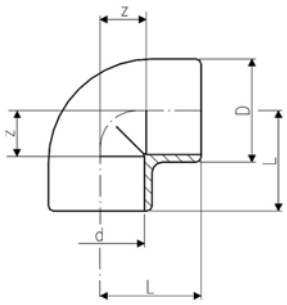
End Cap, S5/SDR11, Standard PP

Size (mm)	Closest Inch	d (mm)	L (mm)	e (mm)	Weight (lb)	Mfg Part #	Price $
250	10	250	60	22.7	4.189	727968846	506.00
315	12	315	70	28.6	7.937	727968848	978.00
355	14	355	80	32.2	11.244	727968849	1589.00
400	16	400	85	36.3	15.873	727968850	2801.00
450	18	450	95	40.9	22.487	727968851	2714.00
500	20	500	105	74.5	30.865	727968852	3376.00

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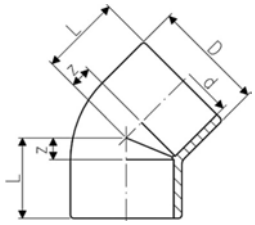




90° Elbow, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	26	25	12	0.031	727100105	7.59
20	1/2	20	31	28	14	0.044	727100106	8.87
25	3/4	25	36	32	16	0.064	727100107	10.14
32	1	32	44	38	20	0.097	727100108	12.61
40	1 1/4	40	54	44	24	0.157	727100109	15.18
50	1 1/2	50	66	51	28	0.267	727100110	23.07
63	2	63	82	62	35	0.503	727100111	29.16
75	2 1/2	75	93	76	45	0.664	727100112	64.31
90	3	90	110	88	53	1.052	727100113	88.57
110	4	110	134	106	65	1.916	727100114	116.44

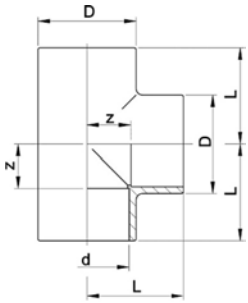




45° Elbow, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	23	20	7	0.020	727150105	10.14
20	1/2	20	31	21	7	0.035	727150106	12.61
25	3/4	25	36	24	8	0.053	727150107	13.89
32	1	32	44	28	10	0.079	727150108	15.18
40	1 1/4	40	53	33	13	0.130	727150109	19.44
50	1 1/2	50	64	36	13	0.185	727150110	25.54
63	2	63	82	43	16	0.403	727150111	31.52
75	2 1/2	75	93	51	20	0.483	727150112	65.48
90	3	90	114	58	23	0.741	727150113	88.57
110	4	110	134	68	27	1.448	727150114	120.72

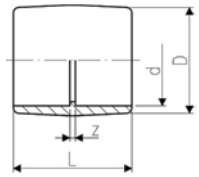




Tee, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	26	25	12	0.044	727200105	8.87
20	1/2	20	31	28	14	0.060	727200106	10.14
25	3/4	25	36	32	16	0.086	727200107	10.14
32	1	32	44	38	20	0.126	727200108	12.61
40	1 1/4	40	54	44	24	0.209	727200109	15.18
50	1 1/2	50	66	51	28	0.355	727200110	26.71
63	2	63	82	62	35	0.631	727200111	38.78
75	2 1/2	75	93	76	45	0.860	727200112	86.10
90	3	90	114	88	53	1.603	727200113	137.81
110	4	110	134	106	65	2.341	727200114	176.27



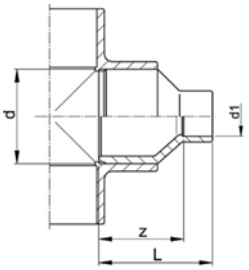


Coupling, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	26	33	7	0.022	727910105	5.12
20	1/2	20	31	35	7	0.029	727910106	5.12
25	3/4	25	36	39	7	0.042	727910107	6.41
32	1	32	44	43	7	0.057	727910108	7.59
40	1 1/4	40	54	48	8	0.090	727910109	10.14
50	1 1/2	50	66	54	8	0.159	727910110	19.44
63	2	63	82	62	8	0.260	727910111	26.71
75	2 1/2	75	93	70	8	0.324	727910112	37.61
90	3	90	112	81	11	0.525	727910113	50.96
110	4	110	134	96	14	0.937	727910114	83.65

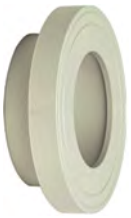
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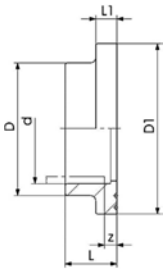




Reducer Bushing, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	d1 (mm)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
20 x 16	1/2 x 3/8	20	16	35	22	0.029	727910334	5.90
25 x 16	3/4 x 3/8	25	16	38	25	0.022	727910338	7.59
25 x 20	3/4 x 1/2	25	20	37	23	0.026	727910337	7.59
32 x 20	1 x 1/2	32	20	43	29	0.035	727910342	10.14
32 x 25	1 x 3/4	32	25	43	27	0.042	727910341	10.14
40 x 20	1 1/4 x 1/2	40	20	48	34	0.049	727910348	12.61
40 x 25	1 1/4 x 3/4	40	25	48	32	0.055	727910347	12.61
40 x 32	1 1/4 x 1	40	32	48	30	0.066	727910346	12.61
50 x 20	1 1/2 x 1/2	50	20	54	40	0.075	727910355	16.99
50 x 25	1 1/2 x 3/4	50	25	54	38	0.075	727910354	16.99
50 x 32	1 1/2 x 1	50	32	54	36	0.086	727910353	16.99
50 x 40	1 1/2 x 1 1/4	50	40	54	34	0.106	727910352	16.99
63 x 25	2 x 3/4	63	25	64	46	0.119	727910361	19.44
63 x 32	2 x 1	63	32	64	46	0.137	727910360	19.44
63 x 40	2 x 1 1/4	63	40	64	44	0.152	727910359	19.44
63 x 50	2 x 1 1/2	63	50	64	41	0.183	727910358	19.44
75 x 63	2 1/2 x 2	75	63	62	35	0.216	727910364	30.34
90 x 63	3 x 2	90	63	88	61	0.375	727910371	43.69
90 x 75	3 x 2 1/2	90	75	70	39	0.313	727910370	43.69
110 x 90	4 x 3	110	90	81	46	0.518	727910376	60.68

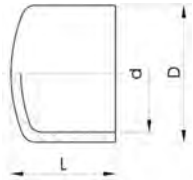




Flange Adapter, ANSI Serrated, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	20	27	45	19	7	5	0.024	727790206	6.41
25	3/4	25	33	54	21	7	5	0.040	727790257	21.90
32	1	32	41	63	23	7	5	0.057	727790258	21.90
40	1 1/4	40	50	73	25	8	5	0.090	727790259	25.54
50	1 1/2	50	61	82	28	8	5	0.121	727790260	26.71
63	2	63	76	102	32	14	5	0.198	727790211	26.71
75	2 1/2	75	90	122	36	16	5	0.342	727790212	29.16
90	3	90	108	133	36	16	5	0.417	727790263	48.51
110	4	110	131	158	48	18	7	0.631	727790214	67.95





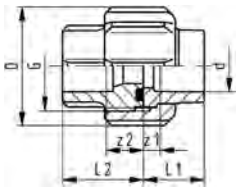
End Cap, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	L (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	25	20	0.013	727960105	7.59
20	1/2	20	30	27	0.020	727960106	7.59
25	3/4	25	36	30	0.033	727960107	8.87
32	1	32	44	34	0.051	727960108	10.14
40	1 1/4	40	53	38	0.077	727960109	12.61
50	1 1/2	50	65	44	0.134	727960110	18.27
63	2	63	80	51	0.225	727960111	23.07
75	2 1/2	75	91	65	0.328	727960112	38.78
90	3	90	111	77	0.611	727960113	48.51
110	4	110	137	93	0.906	727960114	64.31

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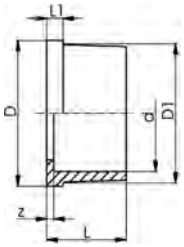




Union, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	G (R/Rp BS Thread) (in.)	L1 (mm)	L2 (mm)	z (mm)	z1 (mm)	Weight (lb)	EPDM Mfg Part #	Price $	FPM Mfg Part #	Price $
16	3/8	16	35	3/4	18	24	5	11	0.044	727510155	37.61	727520155	43.69
20	1/2	20	48	1	19	26	5	12	0.084	727510156	38.78	727520156	46.15
25	3/4	25	58	1 1/4	21	28	5	12	0.137	727510157	41.24	727520157	50.96
32	1	32	65	1 1/2	23	30	5	12	0.176	727510158	50.96	727520158	61.86
40	1 1/4	40	79	2	25	34	5	14	0.302	727510159	67.95	727520159	84.93
50	1 1/2	50	91	2 1/4	28	39	5	16	0.300	727510160	95.82	727520160	113.24
63	2	63	111	2 3/4	32	47	5	20	0.553	727510161	136.74	727520161	158.11
75	2 1/2	75	135	S107, 5 X 3, 6	36	51	5	20	0.952	727510172	207.26	727520172	238.24
90	3	90	158	S127, 5 X 3, 6	42	55	7	20	1.378	727510173	273.48	727520173	310.88
110	4	110	188	S152, 5 X 3, 6	49	54	7	12	2.224	727510174	364.30	727520174	418.78

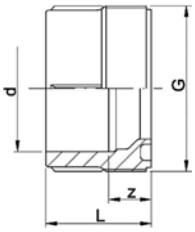




Union End, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	D (mm)	D1 (mm)	L (mm)	L1 (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	24	22	18	4	3	0.007	727500105	3.00
20	1/2	20	30	28	19	5	3	0.013	727500106	4.00
25	3/4	25	39	36	21	5	3	0.024	727500107	4.00
32	1	32	45	42	23	6	3	0.031	727500108	5.00
40	1 1/4	40	57	53	25	6	3	0.055	727500109	6.00
50	1 1/2	50	63	59	28	7	3	0.055	727500110	7.00
63	2	63	79	74	32	8	3	0.095	727500111	8.00
75	2 1/2	75	101	91	36	10	3	0.181	727500112	44.00
90	3	90	121	108	42	11	5	0.287	727500113	57.05
110	4	110	146	131	49	12	6	0.485	727500114	67.95

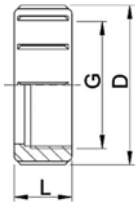




Union Bushing, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	G (R/Rp BS Thread) (in.)	L (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	3/4	24	11	0.013	727840155	13.89
20	1/2	20	1	26	12	0.024	727840156	15.18
25	3/4	25	1 1/4	28	12	0.026	727840157	16.99
32	1	32	1 1/2	30	12	0.046	727840158	19.44
40	1 1/4	40	2	34	14	0.073	727840159	26.71
50	1 1/2	50	2 1/4	39	16	0.086	727840160	37.61
63	2	63	2 3/4	47	20	0.168	727840161	48.51
75	2 1/2	75	S107, 5 X 3, 6	51	18	0.176	727840172	83.65
90	3	90	S127, 5 X 3, 6	55	18	0.485	727840173	113.24
110	4	110	S152, 5 X 3, 6	54	22	0.637	727840174	149.57



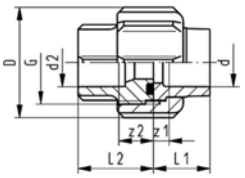


Union Nut, PN 10, Standard PP

Socket Fusion d (mm)	Butt Fusion d (mm)	G (R/Rp BS Thread) (in.)	D (mm)	L (mm)	Weight (lb)	Mfg Part #	Price $
16	16	3/4	35	21	0.015	727890405	18.56
20	20	1	48	24	0.051	727890406	22.00
25	25	1 1/4	58	26	0.077	727890407	21.00
32	32	1 1/2	65	28	0.097	727890408	26.00
40	40	2	77	27	0.097	727890409	32.00
50	50	2 1/4	84	30	0.137	727890410	52.00
63	63	2 3/4	111	39	0.262	727890411	80.00
75	75 - 90	S107, 5 X 3, 6	135	40	0.452	727890422	95.82
90	110	S127, 5 X 3, 6	158	43	1.609	727890423	116.44
110	-	S152, 5 X 3, 6	188	48	1.100	727890424	150.63

PROGEF® Euro Gray Standard PP Socket Fusion Fittings

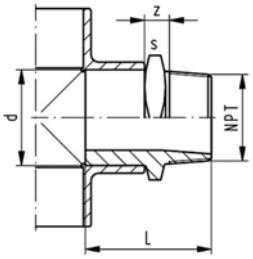




Metric x ASTM Adapter, PN 10, Standard PP, Socket Fusion

d (mm)	d2 (in.)	D (mm)	G (R/Rp BS Thread) (in.)	L1 (mm)	L2 (mm)	z1 (mm)	z2 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	48	1	19	26	5	12	0.090	727513006	60.68
25	3/4	58	1 1/4	21	28	5	12	0.134	727513007	63.03
32	1	65	1 1/2	23	30	5	12	0.062	727513008	76.38
40	1 1/4	79	2	25	34	5	14	0.238	727513009	92.20
50	1 1/2	91	2 1/4	28	39	5	16	0.293	727513010	150.63
63	2	111	2 3/4	32	47	5	20	0.556	727513011	200.85

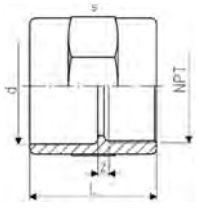




Male Threaded Adapter, PN 10, Standard PP, Socket Fusion (spigot end)

Size (mm)	Closest Inch	d (mm)	L (mm)	s (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
16	3/8	16	37	27	13	0.018	727914555	16.99
20	1/2	20	42	32	13	0.029	727914556	16.99
25	3/4	25	46	36	13	0.033	727914557	19.44
32	1	32	52	46	12	0.057	727914558	25.54
40	1 1/4	40	56	55	14	0.090	727914559	57.05
50	1 1/2	50	60	65	15	0.134	727914560	61.86
63	2	63	69	80	16	0.408	727914561	82.47

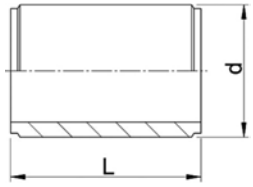




Female Threaded Adapter, PN 10, Standard PP, Socket Fusion

Metric (mm)	NPT (in.)	d (mm)	L (mm)	s (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	20	40	32	7	0.040	727914266	13.89
25	3/4	25	42	36	7	0.051	727914267	19.44
32	1	32	48	46	7	0.086	727914268	23.07
40	1 1/4	40	53	55	7	0.123	727914269	26.71
50	1 1/2	50	54	65	9	0.209	727914270	37.61
63	2	63	62	80	9	0.320	727914271	48.51

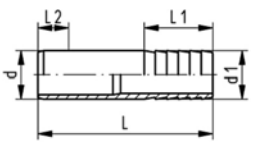




Barrel Nipple, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	L (mm)	PN (bar)	SP	Weight (kg)	Mfg Part #	Price $
20	1/2	20	37	10	10	0.005	727910906	7.59
25	3/4	25	41	10	10	0.006	727910907	7.59
32	1	32	45	10	10	0.010	727910908	10.14
40	1 1/4	40	50	10	10	0.017	727910909	16.99
50	1 1/2	50	55	10	10	0.029	727910910	20.62
63	2	63	64	10	5	0.058	727910911	30.34
75	2 1/2	75	76	10	5	0.095	727910912	40.06
90	3	90	90	10	10	0.163	727910913	43.69
110	4	110	108	10	2	0.305	727910914	60.68





Hose Connecter, PN 10, Standard PP, Socket Fusion

Size (mm)	Closest Inch	d (mm)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	20	20	78	27	14	0.018	727960406	12.61
25	3/4	25	25	91	36	16	0.031	727960407	16.45
32	1	32	32	100	36	18	0.055	727960408	19.44
40	1 1/4	40	40	104	42	20	0.084	727960409	30.34
50	1 1/2	50	50	90	48	23	0.134	727960410	49.78
63	2	63	60	100	50	27	0.185	727960411	54.59

PROGEF® Natural PP

PROGEF® Natural PP Pipe and Butt Fusion Fittings



PROGEF® Natural PP provides economic and pure system solutions for chemical sanitized water application and abrasive fluids.

This unpigmented material has excellent resistance to particular disinfectants and chemicals.

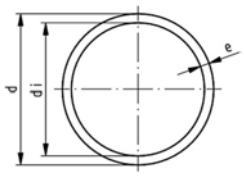
GF is the only supplier who can truly offer a complete piping system solution for reliable slurry supply. This added value for customers is maximized by using PROGEF® Natural for large diameter slurry supply lines, and SYGEF® PFA, our flexible High Purity Piping System solution for the smaller hook-up dimensions!

Advantages:
- Excellent resistance against certain disinfectants and chemicals (mainly alkaline solutions)
- Ensures top quality water to USP standards
- Translucence
- High product quality
- High temperature resistance
- Bead and crevice free weldability

Technical Data:
- Size Range: d20 - d90 mm (1/2" - 3")
- Pressure Rating: d20 - d63, SDR11: PN10 (150 PSI), d75 - d110, SDR17.6: PN6 (90 PSI)
- Operating Temperature: 0°C - 80°C (32°F - 176°F)
- Joining Technology: BCF Plus Fusion, IR Plus Fusion
- Standard Ratings: FDA CFR 21 177.1520, USP 25 Class VI, ASME-BPE
- Material: Polypropylene Random Copolymer (PP-R)

Fields of Application:
- Pharmaceutical Grade water
- Purified water for Life Science applications
- Cost effective, pure distribution of Lab Grade DI water and critical biological fluids
- Specified water applications in microelectronics
- Chemical processes

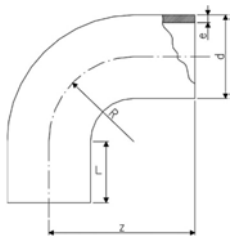




Pipe, PN 10 and PN 6, Natural PP - 5 Meters

Size (mm)	Closest Inch	PN	d (mm)	di (mm)	e (mm)	lbs per meter	Mfg Part #	Price $
20	1/2	10	20	16.2	1.9	0.236	168480151	7.37
25	3/4	10	25	20.4	2.3	0.362	168480152	8.55
32	1	10	32	26.2	2.9	0.575	168480153	11.00
40	1 1/4	10	40	32.6	3.7	0.908	168480154	19.44
50	1 1/2	10	50	40.8	4.6	1.407	168480155	23.07
63	2	10	63	51.4	5.8	2.227	168480156	35.14
90	3	6	90	79.8	5.1	2.932	168480283	83.65

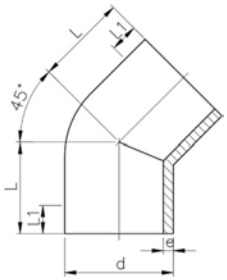




90° Elbow Sweep Radius, PN 10 and PN 6, Natural PP

Size (mm)	Closest Inch	FM	PN	d (mm)	e (mm)	L (mm)	R (mm)	z (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	10	20	1.9	23	15	38	0.015	728018606	15.18
25	3/4	BCF, IR	10	25	2.3	23	19	42	0.026	728018607	15.18
32	1	BCF, IR	10	32	2.9	22	24	46	0.057	728018608	15.18
40	1 1/4	BCF, IR	10	40	3.7	21	30	51	0.084	728018609	20.20
50	1 1/2	BCF, IR	10	50	4.6	21	37	58	0.143	728018610	21.90
63	2	BCF, IR	10	63	5.8	21	45	66	0.254	728018611	27.89
90	3	BCF, IR	6	90	5.1	20	90	100	0.496	728018413	81.30



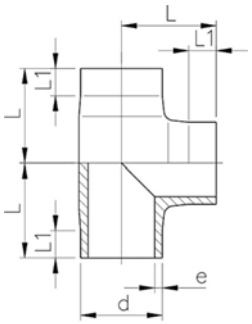


45° Elbow, PN 10 and PN 6, Natural PP

Size (mm)	Closest Inch	FM	PN	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	10	20	1.9	32	24	0.015	728158506	13.89
25	3/4	BCF, IR	10	25	2.3	34	25	0.004	728158507	13.89
32	1	BCF, IR	10	32	2.9	36	25	0.042	728158508	16.99
40	1 1/4	BCF, IR	10	40	3.7	39	25	0.082	728158509	20.62
50	1 1/2	BCF, IR	10	50	4.6	42	26	0.119	728158510	23.07
63	2	BCF, IR	10	63	5.8	47	29	0.214	728158511	38.78
90	3	BCF, IR	6	90	6	57	48	0.362	728158413	106.84

PROGEF® Natural PP Butt Fusion Fittings

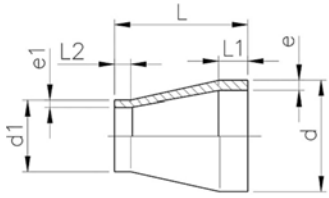




Tee, PN 10 and PN 6, Natural PP

Size (mm)	Closest Inch	FM	PN	d (mm)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	10	20	1.9	38	24	0.024	728208506	8.87
25	3/4	BCF, IR	10	25	2.3	42	26	0.042	728208507	10.14
32	1	BCF, IR	10	32	2.9	46	26	0.071	728208508	10.14
40	1 1/4	BCF, IR	10	40	3.7	51	23	0.130	728208509	21.90
50	1 1/2	BCF, IR	10	50	4.6	58	22	0.223	728208510	30.34
63	2	BCF, IR	10	63	5.8	66	20	0.401	728208511	37.61
90	3	BCF, IR	6	90	5.7	90	20	0.884	728208413	95.82



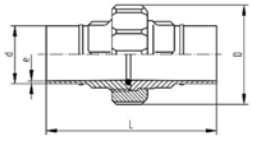


NOTE: Flush Style Reducers Available

Reducer, PN 10 and PN 6, Natural PP

Size (mm)	Closest Inch	FM	PN	d (mm)	d1 (mm)	e (mm)	e1 (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
25 x 20	3/4 x 1/2	BCF, IR	10	25	20	2.3	1.9	50	20	20	0.015	728908537	13.89
32 x 20	1 x 1/2	BCF, IR	10	32	20	3.0	1.9	50	20	20	0.022	728908542	15.18
32 x 25	1 x 3/4	BCF, IR	10	32	25	3.0	2.3	50	20	20	0.024	728908541	15.18
40 x 20	1 1/4 x 1/2	BCF, IR	10	40	20	3.7	1.9	58	20	23	0.033	728908548	21.90
40 x 25	1 1/4 x 3/4	BCF, IR	10	40	25	3.7	2.3	55	20	20	0.035	728908547	21.90
40 x 32	1 1/4 x 1	BCF, IR	10	40	32	3.7	2.9	55	20	20	0.042	728908546	21.90
50 x 25	1 1/2 x 3/4	BCF, IR	10	50	25	4.6	2.3	60	20	20	0.055	728908554	23.07
50 x 32	1 1/2 x 1	BCF, IR	10	50	32	4.6	2.9	60	20	20	0.060	728908553	23.07
50 x 40	1 1/2 x 1 1/4	BCF, IR	10	50	40	4.6	3.7	60	20	20	0.066	728908552	23.07
63 x 32	2 x 1	BCF, IR	10	63	32	5.8	2.9	65	20	20	0.095	728908560	24.25
63 x 40	2 x 1 1/4	BCF, IR	10	63	40	5.8	3.7	65	20	20	0.104	728908559	24.25
63 x 50	2 x 1 1/2	BCF, IR	10	63	50	5.8	4.6	65	20	20	0.115	728908558	24.25
90 x 63	3 x 2	BCF, IR	6	90	63	5.7	5.8	75	22	19	0.192	728908471	67.95

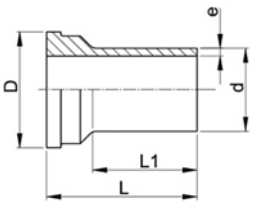




Union, PN 10, Natural PP

Size (mm)	Closest Inch	FM	d (mm)	D (mm)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	EPDM Mfg Part #	FPM Mfg Part #	Price $
20	1/2	BCF, IR	20	48	1.9	107	53	25	0.106	728518526	728528526	63.03
25	3/4	BCF, IR	25	58	2.3	113	56	25	0.168	728518527	728528527	72.75
32	1	BCF, IR	32	65	2.9	119	59	25	0.234	728518528	728528528	84.93
40	1 1/4	BCF, IR	40	79	3.7	126	63	25	0.324	728518529	728528529	113.24
50	1 1/2	BCF, IR	50	91	4.6	131	65	25	0.428	728518530	728528530	137.81
63	2	BCF, IR	63	111	5.8	137	68	25	0.756	728518531	728528531	183.75



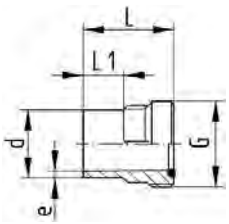


Union End, PN 10, Natural PP

Size (mm)	Closest Inch	FM	d (mm)	e (mm)	D (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	30	53	35	0.020	728608506	12.00
25	3/4	BCF, IR	25	2.3	39	56	36	0.029	728608507	18.00
32	1	BCF, IR	32	2.9	45	59	38	0.035	728608508	18.00
40	1 1/4	BCF, IR	40	3.7	57	63	39	0.077	728608509	26.00
50	1 1/2	BCF, IR	50	4.6	63	65	41	0.119	728608510	27.00
63	2	BCF, IR	63	5.8	78	69	43	0.203	728608511	37.00

PROGEF® Natural PP Butt Fusion Fittings

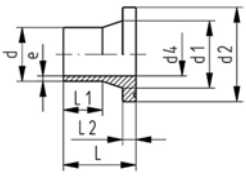




Union Bushing, PN 10, Natural PP

Size (mm)	Closest Inch	FM	d (mm)	G (R/Rp BS Thread) (in.)	e (mm)	L (mm)	L1 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1	1.9	54	26	0.026	728648526	35.14
25	3/4	BCF, IR	25	1 1/4	2.3	57	26	0.044	728648527	40.06
32	1	BCF, IR	32	1 1/2	2.9	60	25	0.064	728648528	42.52
40	1 1/4	BCF, IR	40	2	3.7	63	25	0.104	728648529	52.13
50	1 1/2	BCF, IR	50	2 1/4	4.6	66	25	0.159	728648530	70.30
63	2	BCF, IR	63	2 3/4	5.8	69	25	0.229	728648531	82.47

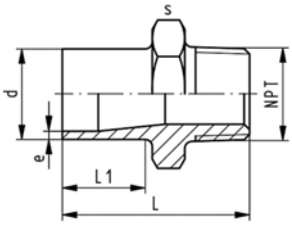




Flange Adapter - ANSI Serrated, PN 10 and PN 6, Natural PP

Size (mm)	Closest Inch	FM	PN	d (mm)	d1 (mm)	d2 (mm)	d4 (mm)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	10	20	27	45	16	1.9	50	29	7	0.033	728798706	16.45
25	3/4	BCF, IR	10	25	33	54	20	2.3	52	27	9	0.062	728798657	29.38
32	1	BCF, IR	10	32	40	63	26	3.0	54	28	10	0.093	728798658	29.80
40	1 1/4	BCF, IR	10	40	50	73	32	3.7	56	25	11	0.141	728798659	33.65
50	1 1/2	BCF, IR	10	50	61	82	40	4.6	62	32	12	0.201	728798660	38.67
63	2	BCF, IR	10	63	75	102	51	5.8	68	38	14	0.313	728798711	40.70
90	3	BCF, IR	6	90	105	138	78	5.7	80	41	17	0.271	728798788	42.52

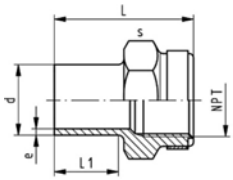




Male Adapter, PN 10, Natural PP

Size (mm)	Closest Inch	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	s (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	51	28	32	0.029	728914106	72.75
25	3/4	BCF, IR	25	2.3	52	28	36	0.037	728914107	72.75
32	1	BCF, IR	32	2.9	55	28	46	0.060	728914108	100.64
40	1 1/4	BCF, IR	40	3.7	58	28	55	0.086	728914109	100.64
50	1 1/2	BCF, IR	50	4.6	60	28	65	0.119	728914110	105.44
63	2	BCF, IR	63	5.8	67	28	80	0.205	728914111	105.44

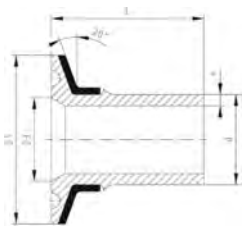




Female Adapter, PN 10, Natural PP

Size (mm)	Closest Inch	FM	d (mm)	e (mm)	L (mm)	L1 (mm)	s (mm)	Weight (lb)	Mfg Part #	Price $
20	1/2	BCF, IR	20	1.9	49	28	32	0.035	728914056	64.31
25	3/4	BCF, IR	25	2.3	51	28	36	0.042	728914057	64.31
32	1	BCF, IR	32	2.9	54	28	46	0.086	728914058	66.66
40	1 1/4	BCF, IR	40	3.7	56	28	55	0.115	728914059	90.92
50	1 1/2	BCF, IR	50	4.6	60	28	64	0.187	728914060	93.37
63	2	BCF, IR	63	5.8	62	28	80	0.309	728914061	104.27

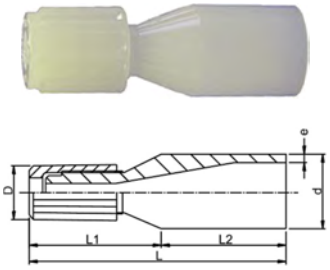




Sanitary Adapter, PN 10, Natural PP

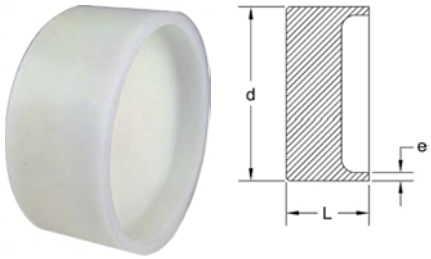
Size (mm)	Closest Inch	FM	d (mm)	D1 (mm)	D3 (mm)	e (mm)	L (mm)	Mfg Part #	Price $
20	1/2	BCF, IR	20	25	16	1.9	49	728598357	100.64
25	3/4	BCF, IR	25	51	22	2.3	50	728598359	141.02
32	1	BCF, IR	32	51	35	2.9	53	728598362	144.23
40	1 1/4	BCF, IR	40	51	35	3.7	54	728598365	149.57
50	1 1/2	BCF, IR	50	64	48	4.6	61	728598367	161.32
63	2	BCF, IR	63	78	60	5.8	67	728598369	178.41

PROGEF® Natural PP Butt Fusion Fittings



Flare Tube Adapter, PN 10, Natural PP

Size (mm)	Tube Size (in)	FM	d (mm)	D (mm)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	Mfg Part #	Price $
20	1/4	BCF, IR	20	19	1.9	74	43	31	728991430	138.89
20	3/8	BCF, IR	20	22	1.9	77	46	31	728991431	138.89
20	1/2	BCF, IR	20	25	1.9	79	48	31	728991432	138.89
20	3/4	BCF, IR	20	34	1.9	83	52	31	728991433	138.89
25	1/4	BCF, IR	25	19	2.3	74	43	31	728991435	141.02
25	3/8	BCF, IR	25	22	2.3	77	46	31	728991436	141.02
25	1/2	BCF, IR	25	25	2.3	79	48	31	728991437	141.02
25	3/4	BCF, IR	25	34	2.3	83	52	31	728991438	141.02
25	1	BCF, IR	25	37	2.3	84	58	31	728991439	141.02
32	1/2	BCF, IR	32	25	3.0	79	48	31	728991442	164.53
32	3/4	BCF, IR	32	34	3.0	83	52	31	728991443	164.53
32	1	BCF, IR	32	37	3.0	89	58	31	728991444	164.53

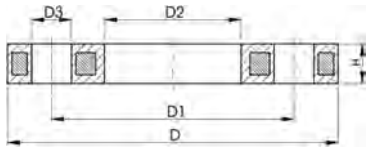


End Cap, PN 10 and PN 6, Natural PP

Size (mm)	Closest Inch	FM	PN	d (mm)	e (mm)	L (mm)	Mfg Part #	Price $
20	1/2	IR	10/6	20	1.9	30	728992680	84.93
25	3/4	IR	10/6	25	2.3	30	728992681	100.64
32	1	IR	10/6	32	3.0	30	728992682	107.90
40	1 1/4	IR	10/6	40	3.7	30	728992683	112.18
50	1 1/2	IR	10/6	50	4.6	36	728992684	120.72
63	2	IR	10/6	63	5.8	37	728992685	137.81
90	3	IR	10/6	90	5.1	40	728992687	231.82

Flange Ring, PP/Steel







Butt Fusion System



Socket System

Butt Fusion and Socket Systems Inch/ANSI

Size (in)	Size (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	Mfg Part #	Price $
1/2	20	95	60	28	16	12	727701206	23.51
3/4	25	105	70	34	16	12	727701207	25.64
1	32	115	79	42	16	16	727701208	33.11
1 1/4	40	140	89	51	16	16	727701209	39.53
1 1/2	50	150	98	62	16	18	727701210	47.01
2	63	165	121	78	19	18	727701211	59.82
2 1/2	75	185	140	92	19	18	727701212	65.16

Butt Fusion Systems Inch/ANSI

Size (in)	Size (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	Mfg Part #	Price $
3	90	200	152	108	19	20	727701313	77.99
4	110	229	190	128	19	20	727701314	96.14
6	160	285	240	178	22	24	727700317	POA
8	200	340	298	235	22	27	727701319	POA
8	225	340	298	238	22	27	727701320	POA

Socket Systems Inch/ANSI

Size (in)	Size (mm)	D (mm)	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)	Mfg Part #	Price $
3	90	200	152	110	19	20	727701213	77.99
4	110	229	190	133	19	20	727701214	96.14
6	160	285	240	190	22	24	727700217	POA
8	225	340	298	250	22	27	727701220	POA

PPro-Seal™ Natural PP

PPro-Seal™ Natural PP Pipe and Electrofusion Fittings



PPro-Seal™ Natural PP has excellent resistance to attack by most organic and inorganic chemicals in common use. In general, PPro-Seal™ is attacked only by strong oxidizing acids and is weakened by certain organic solvents and chlorinated hydrocarbons. Like all thermoplastic products, PPro-Seal™ will not rust, pit, scale or corrode. PPro-Seal™ is not subject to electrolysis, providing years of maintenance-free, leak-free service.

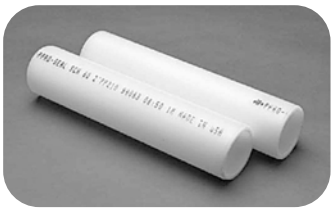
PPro-Seal™ Natural PP is a highly pure product ideal for use in piping systems where purity is not only required, but is essential.

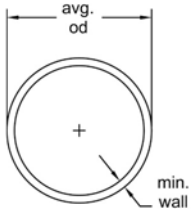
Natural Polypropylene's (PPn) chemical and physical properties make it ideal for laboratory and industrial piping where mixtures of acids, bases, and solvents are involved.

Advantages:
- Excellent chemical and corrosion resistance
- Impact-resistant
- Simple installation procedure
- Electrofusion and threaded fittings offering
- Low installation costs
- Easy to operate electrofusion machines

Technical Data:
- Size Range: d20 - d90 mm (½" - 3")
- Pressure Rating: PN10 (150 PSI)
- Operating Temperature: 0°C - 80°C (32°F - 176°F)
- Joining Technology: Electrofusion, Threaded
- Standard Ratings: FDA CFR 21 177.1520, ASTM D4101, ASTM F1290, USP 25 Class VI
- Material: Polypropylene copolymer (PPn)

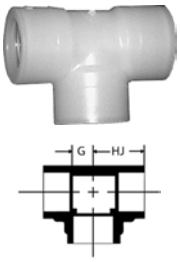
Fields of Application:
- Lab Grade DI Water
- Reverse Osmosis Systems
- Life Sciences
- Chemical Process Industry
- Food and Beverage





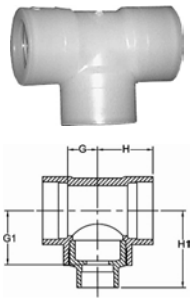
PPro-Seal Pipe, Schedule 80 PPn - 10 Feet

Size (in)	Lengths (ft)	Avg. OD (in)	Min. Wall (in)	Mfg Part #	Price $
1/2	10	0.840	0.147	37K011005	2.67
3/4	10	1.050	0.154	37K011007	3.85
1	10	1.315	0.179	37K011010	5.02
1 1/2	10	1.900	0.200	37K011015	10.14
2	10	2.375	0.218	37K011020	13.89
3	10	3.500	0.300	37K011030	POA



Tee (S x S x S)
PPro-Seal Electrofusion Fittings

Size (in)	G (in)	HJ (in)	Mfg Part #	Price $
1/2	0.51	1.22	801-005F	24.04
3/4	0.58	1.36	801-007F	27.77
1	0.70	1.67	801-010F	31.62
1 1/2	1.00	2.03	801-015F	46.79
2	1.26	2.32	801-020F	63.13
3	1.87	3.72	801-030F	POA



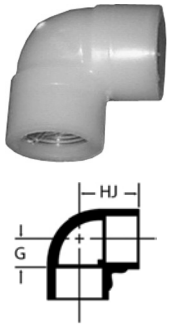
Tee - Reducing (S x S x S)
PPro-Seal Electrofusion Fittings

Size (in)	G (in)	G1 (in)	H (in)	H1 (in)	Mfg Part #	Price $
1 x 1/2	0.89	0.91	1.86	1.63	801-130F	69.44
1 1/2 x 1/2	0.88	1.35	1.91	1.88	801-209F	93.47
1 1/2 x 1	1.00	2.03	2.03	3.00	801-211FFB	93.47
2 x 1/2	0.86	1.62	2.02	2.16	801-247F	124.99
2 x 1	1.26	2.29	2.32	3.26	801-249FFB	124.99



45° Elbow (S x S)
PPro-Seal Electrofusion Fittings

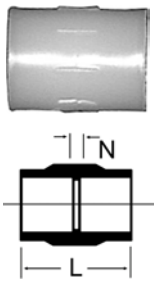
Size (in)	G (in)	HJ (in)	Mfg Part #	Price $
1/2	0.31	1.02	817-005F	27.77
3/4	0.33	1.11	817-007F	29.06
1	0.39	1.36	817-010F	35.36
1 1/2	0.52	1.55	817-015F	55.56
2	0.64	1.70	817-020F	75.74
3	0.81	2.66	817-030F	POA



90° Elbow (S x S)
PPro-Seal Electrofusion Fittings

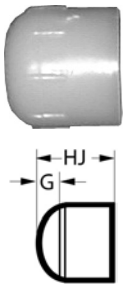
Size (in)	G (in)	HJ (in)	Mfg Part #	Price $
1/2	0.51	1.22	806-005F	20.30
3/4	0.58	1.36	806-007F	24.04
1	0.70	1.67	806-010F	30.34
1 1/2	1.00	2.03	806-015F	40.48
2	1.26	2.32	806-020F	55.56
3	1.87	3.72	806-030F	POA

PPro-Seal™ Natural PP Electrofusion Fittings



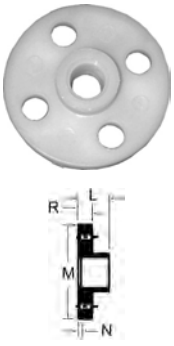
Coupling (S x S)
PPro-Seal Electrofusion Fittings

Size (in)	L (in)	N (in)	Mfg Part #	Price $
1/2	1.56	0.12	829-005F	17.73
3/4	1.68	0.12	829-007F	22.75
1	2.06	0.12	829-010F	24.04
1 1/2	2.25	0.18	829-015F	31.62
2	2.26	0.13	829-020F	42.95
3	4.00	0.31	829-030F	POA



End Cap (S)
PPro-Seal Electrofusion Fittings

Size (in)	G (in)	HJ (in)	Mfg Part #	Price $
1/2	0.42	1.14	847-005F	24.04
3/4	0.45	1.23	847-007F	40.48
1	0.53	1.50	847-010F	46.79
1 1/2	0.63	1.71	847-015F	55.56
2	0.75	1.84	847-020F	75.74
3	1.00	2.38	847-030F	POA

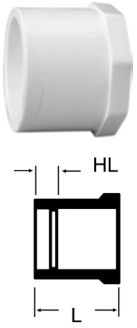


Flange (S) without Backing Ring
PPro-Seal Electrofusion Fittings

Size (in)	# Holes	Bolt Hole Dia. (in)	Bolt Cir. Dia. (in)	L (in)	M (in)	N (in)	R (in)	Mfg Part #	Price $
1/2	4	0.50	2.38	0.86	3.50	0.14	0.41	859-005F	46.79
3/4	4	0.50	2.75	0.97	3.88	0.19	0.47	859-007F	55.56
1	4	0.50	3.13	1.16	4.25	0.19	0.53	859-010F	66.98
1 1/2	4	0.50	3.88	1.24	5.00	0.21	0.66	859-015F	75.74
2	4	0.63	4.75	1.34	6.00	0.28	0.71	859-020F	84.61
3	4	0.63	6.00	2.33	7.50	0.48	1.00	859-030F	POA

304SS Flange Backing Ring
PPro-Seal Fittings

Size (in)	Mfg Part #	Price $
1/2	855-005F	84.61
3/4	855-007F	93.47
1	855-010F	103.52
1 1/2	855-015F	114.31
2	855-020F	144.23
3	855-030F	POA



Reducer Bushing (Spg x S)
PPro-Seal Electrofusion Fittings

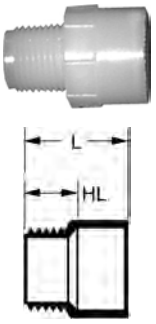
Size (in)	HL (in)	L (in)	Mfg Part #	Price $
3/4 x 1/2	1.14	1.86	837-101F	25.32
1 x 1/2	1.03	1.75	837-130F	37.93
1 x 3/4	1.10	1.88	837-131F	37.93
1 1/2 x 3/4	0.95	1.67	837-210F	48.07
1 1/2 x 1	1.03	2.00	837-211F	48.07
2 x 1	1.03	2.00	837-249F	60.68
2 x 1 1/2	0.81	1.84	837-251F	60.68
3 x 1 1/2	0.91	2.40	837-337F	POA
3 x 2	0.88	2.40	837-338F	POA



Reducer Bushing (Spg x FPT)
PPro-Seal Fittings

Size (in)	L (in)	T Min. (in)	Mfg Part #	Price $
3/4 x 1/2	1.13	0.53	838-101F	25.32
1 x 1/2	1.75	0.53	838-130F	37.93
1 x 3/4	1.31	0.55	838-131F	37.93
1 1/2 x 3/4	1.67	0.55	838-210F	48.07
1 1/2 x 1	1.67	0.68	838-211F	48.07
2 x 1	2.00	0.68	838-249F	60.68
2 x 1 1/2	1.81	0.72	838-251F	60.68

NOTE: Threaded fittings not recommended for pressure applications.



Male Adapter (MPT x S)
PPro-Seal Fittings

Size (in)	HL (in)	L (in)	Mfg Part #	Price $
1/2	1.02	1.73	836-005F	24.04
3/4	1.05	1.83	836-007F	29.06
1	1.28	2.25	836-010F	31.62
1 1/2	1.32	2.35	836-015F	39.21
2	1.37	2.43	836-020F	61.96
3	2.08	3.93	836-030F	POA
Male Adapter Reducing (S x MPT)				
1/2 x 1/4	0.79	2.00	836-036F	25.32

NOTE: Threaded fittings not recommended for pressure applications.

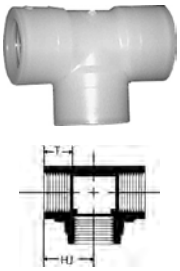


Loose Coil
PPro-Seal Electrofusion Accessory

Size (in)	Mfg Part #	Price $
1/2	37K164005	6.09
3/4	37K164007	6.41
1	37K164010	6.84
1 1/2	37K164015	7.59
2	37K164020	8.01
3	37K164030	POA

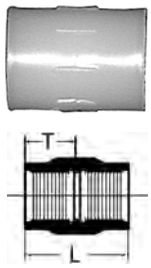
PPro-Seal™ Natural PP

PPro-Seal™ Natural PP Electrofusion Fittings



Tee (FPT x FPT x FPT)
PPro-Seal Threaded Fittings

Size (in)	HJ (in)	T Min. (in)	Mfg Part #	Price $
1/2	1.22	0.53	805-005F	17.73
3/4	1.36	0.55	805-007F	20.30
1	1.67	0.68	805-010F	25.32
1 1/2	2.03	0.72	805-015F	37.93
2	2.32	0.76	805-020F	46.79



Coupling (FPT x FPT)
PPro-Seal Threaded Fittings

Size (in)	L (in)	T Min. (in)	Mfg Part #	Price $
1/2	1.56	0.53	830-005F	12.71
3/4	1.68	0.55	830-007F	16.45
1	2.06	0.68	830-010F	17.73
1 1/2	2.25	0.72	830-015F	24.04
2	2.26	0.76	830-020F	29.06



90° Elbow (FPT x FPT)
PPro-Seal Threaded Fittings

Size (in)	HJ (in)	T Min. (in)	Mfg Part #	Price $
1/2	1.22	0.53	808-005F	13.89
3/4	1.36	0.55	808-007F	17.73
1	1.67	0.68	808-010F	21.47
1 1/2	2.03	0.72	808-015F	27.77
2	2.32	0.76	808-020F	37.93



45° Elbow (FPT x FPT)
PPro-Seal Threaded Fittings

Size (in)	KJ (in)	T Min. (in)	Mfg Part #	Price $
1/2	1.02	0.53	819-005F	27.77
3/4	1.11	0.55	819-007F	29.06
1	1.36	0.68	819-010F	35.36
1 1/2	1.55	0.72	819-015F	55.56
2	1.70	0.76	819-020F	75.74



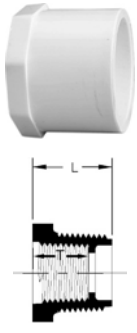
End Cap (FPT)
PPro-Seal Threaded Fittings

Size (in)	W (in)	T Min. (in)	Mfg Part #	Price $
1/2	1.14	0.53	848-005F	22.75
3/4	1.23	0.55	848-007F	40.48
1	1.50	0.68	848-010F	48.07
1 1/2	1.71	0.72	848-015F	55.56
2	1.84	0.76	848-020F	75.74



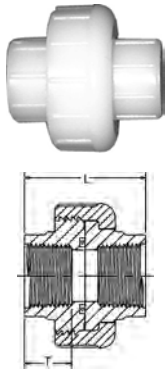
Flange (FPT) without Backing Ring
PPro-Seal Threaded Fittings

Size (in)	# Holes	Bolt Hole Dia. (in)	Bolt Cir. Dia. (in)	L (in)	M (in)	R (in)	T Min. (in)	Mfg Part #	Price $
1/2	4	0.50	2.38	0.86	3.50	0.41	0.69	852-005F	48.07
3/4	4	0.50	2.75	0.97	3.88	0.47	0.69	852-007F	55.56
1	4	0.50	3.13	1.16	4.25	0.53	0.81	852-010F	66.98
1 1/2	4	0.50	3.88	1.24	5.00	0.66	0.88	852-015F	77.03
2	4	0.63	4.75	1.34	6.00	0.71	0.94	852-020F	84.61



Reducer Bushing (MPT x FPT)
PPro-Seal Threaded Fittings

Size (in)	L (in)	T Min. (in)	Mfg Part #	Price $
3/4 x 1/2	1.70	0.53	839-101F	25.32
1 x 1/2	1.77	0.53	839-130F	37.93
1 x 3/4	1.89	0.55	839-131F	37.93
1 1/2 x 1	2.00	0.68	839-211F	48.07
2 x 1	2.00	0.68	839-249F	60.68
2 x 1 1/2	1.81	0.72	839-251F	60.68



Union (FPT x FPT), FPM O-Ring
PPro-Seal Threaded Fittings

Size (in)	L (in)	T Min. (in)	Mfg Part #	Price $
1/2	2.00	0.53	898-005F	59.40
3/4	2.08	0.55	898-007F	63.13
1	2.50	0.68	898-010F	78.31
1 1/2	2.69	0.72	898-015F	119.65
2	2.88	0.76	898-020F	173.07

NOTE: Threaded fittings not recommended for pressure applications.

CPVC Corrosive Waste Drainage System

Proven Solvent Cement Joining <u>Eliminates</u> Troublesome Fusion Equipment, Mechanical Joints & Elastomer Problems



Features:

- Complete System of Pipe, Fittings & Adapters
- All CPVC Construction in Full Assortment of Standard DWV Patterns
- Custom Fabricated Accessories - Drains, Neutralization Tanks & Pump Stations
- Specially Formulated One-Step Solvent Cement Provides Chemical Resistance Equal to System Pipe & Fittings
- ULC Flame & Smoke Rated
- Full Technical Support

Acid Waste System

LABWASTE PIPE (10FT LENGTHS)

Size (in.)	Part #	Price/ft.
1 1/2	LW-015	9.01
2	LW-020	12.19
3	LW-030	22.03
4	LW-040	31.28
6	LW-060	45.51
8	LW-080	87.92
10	LW-100	142.35
12	LW-120	188.06
14	LW-140	229.34
16	LW-160	299.31

Fittings

90° Ell Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1792-015	39.59
2	C1792-020	49.19
3	C1792-030	83.51
4	C1792-040	132.88
6	C1792-060	283.02
8	C1792-080	394.48
10	C1792-100	911.72
12	C1792-120	1528.73

90° Street Ell Spg x Hub



Size (in.)	Part #	Price
1 1/2	C1793-015	46.48
2	C1793-020	58.99
3	C1793-030	78.98
4	C1793-040	125.47
6	C1793-060	250.60
8	C1793-080	389.94

90° Long Turn Ell Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1794-015	40.96
2	C1794-020	55.84
3	C1794-030	95.53
4	C1794-040	137.29
6	C1794-060	363.26

90° Long Turn Ell Spg x Hub



Size (in.)	Part #	Price
1 1/2	C1824-015	43.07
2	C1824-020	57.74
3	C1824-030	98.32
4	C1824-040	139.71

45° Ell Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1790-015	38.88
2	C1790-020	47.39
3	C1790-030	86.95
4	C1790-040	98.55
6	C1790-060	236.92
8	C1790-080	341.61
10	C1790-100	651.34
12	C1790-120	1180.06

45° Street Ell Spg x Hub



Size (in.)	Part #	Price
1 1/2	C1791-015	29.46
2	C1791-020	33.46
3	C1791-030	74.16
4	C1791-040	76.09
6	C1791-060	225.06
8	C1791-080	259.23

60° Ell Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1798-015	39.67
2	C1798-020	47.91
3	C1798-030	86.55
4	C1798-040	138.75

60° Street Ell Spg x Hub



Size (in.)	Part #	Price
1 1/2	C1799-015	39.67
2	C1799-020	47.91
3	C1799-030	87.44
4	C1799-040	138.75

Vent Ell Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1826-015	39.23
2	C1826-020	46.01
3	C1826-030	79.59
4	C1826-040	105.06
6	C1826-060	162.95

22 1/2° Ell Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1796-015	39.67
2	C1796-020	47.31
3	C1796-030	85.53
4	C1796-040	105.35
6	C1796-060	234.68
8	C1796-080	254.73

22 1/2° Street Ell Spg x Hub



Size (in.)	Part #	Price
1 1/2	C1797-015	35.29
2	C1797-020	47.31
3	C1797-030	85.53
4	C1797-040	105.35
6	C1797-060	201.94
8	C1797-080	244.71

Adapter Hub x MIPT



Size (in.)	Part #	Price
1 1/2	C1815-015	24.06
2	C1815-020	29.12
3	C1815-030	47.87
4	C1815-040	99.81
6	C1815-060	220.89

Adapter Hub x FIPT



Size (in.)	Part #	Price
1 1/2	C1813-015	24.33
2	C1813-020	33.14
3	C1813-030	54.69
4	C1813-040	105.12
6	C1813-060	144.94

Ftg. Cleanout Spg x Cleanout w/ Plug



Size (in.)	Part #	Price
1 1/2	C1810-015	25.62
2	C1810-020	30.19
3	C1810-030	55.71
4	C1810-040	95.83
6	C1810-060	136.44

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Sanitary Tee
Hub x Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1800-015	49.19
2	C1800-020	58.91
2x2x1 1/2	C1800-021	58.80
2x1 1/2x2	C1800-022	50.59
2x1 1/2x1 1/2	C1800-023	48.40
3	C1800-030	117.89
3x3x2	C1800-031	110.01
3x3x1 1/2	C1800-032	102.33
4	C1800-040	176.59
4x4x3	C1800-041	164.84
4x4x2	C1800-042	157.77
6x4	C1800-061	339.24
8x4	C1800-084	1149.63

Double Tee (Cross)
Hub x Hub x Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1862-015	74.09
2	C1862-020	87.37
2x2x1 1/2x1 1/2	C1862-024	97.60
3	C1862-030	116.85
3x3x2x2	C1862-033	164.22
3x3x1 1/2x1 1/2	C1862-035	124.78
4	C1862-040	155.96
4x4x3x3	C1862-044	149.66
4x4x2x2	C1862-045	135.56

Test Tee
Hub x Hub x Clean-out w/ Plug



Size (in.)	Part #	Price
1 1/2	C1861-015	58.56
2	C1861-020	64.69
3	C1861-030	135.64
4	C1861-040	184.75
6	C1861-060	410.65

Cleanout Test Tee
Hub x Hub x FPT



Size (in.)	Part #	Price
1 1/2	C1827-015	49.67
2	C1827-020	55.01
3	C1827-030	118.75
4	C1827-040	165.77
6	C1827-060	428.82

Cap



Size (in.)	Part #	Price
1 1/2	C1809-015	24.06
2	C1809-020	28.79
3	C1809-030	49.73
4	C1809-040	101.38
6	C1809-060	137.42
8	C1809-080	238.55

Long Radius TY
Hub x Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1865-015	65.44
2	C1865-020	87.34
2x2x1 1/2	C1865-021	78.62
3	C1865-030	139.42
3x3x2	C1865-031	125.63
3x3x1 1/2	C1865-032	115.97
4	C1865-040	198.03
4x4x3	C1865-041	182.52
4x4x2	C1865-042	173.95

Coupling
Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1868-015	30.93
2	C1868-020	38.59
3	C1868-030	49.39
4	C1868-040	70.28
6	C1868-060	91.68
8	C1868-080	247.26
10	C1868-100	358.54
12	C1868-120	503.80
14	C1868-140	639.71

Increaser-Reducer
Hub x Hub



Size (in.)	Part #	Price
2x1 1/2	C1814-102	60.52
3x1 1/2	C1814-104	63.87
3x2	C1814-103	70.28
4x2	C1814-106	77.25
4x3	C1814-105	84.27
6x3	C1814-107	97.46
6x4	C1814-108	117.29

Ftg. Flush Bushing
Spg x Hub



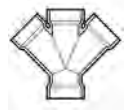
Size (in.)	Part #	Price
2X1 1/2	C1870-102	32.98
3x2	C1870-103	37.99
3x1 1/2	C1870-104	34.86
4x3	C1870-105	86.29
4x2	C1870-106	84.34
6x3	C1870-108	130.28
6x4	C1870-107	125.24
8x4	C1870-110	451.59
8x6	C1870-109	471.13

45°Y
Hub x Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1867-015	50.13
2	C1867-020	70.32
2x2x1 1/2	C1867-021	70.32
2x1 1/2x1 1/2	C1867-022	58.62
3	C1867-030	125.34
3x3x2	C1867-031	116.84
3x3x1 1/2	C1867-032	107.92
4	C1867-040	182.69
4x4x3	C1867-041	175.36
4x4x2	C1867-042	168.17
4x4x1 1/2	C1867-043	130.59
6	C1867-060	381.74
6x6x4	C1867-061	247.89
6x6x3	C1867-062	245.22
8	C1867-080	415.51
8x8x6	C1867-081	321.38
8x8x4	C1867-082	288.77

45°Double Y
Hub x Hub x Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1866-015	94.08
2	C1866-020	99.44
2x1 1/2	C1866-021	149.21
3	C1866-030	179.77
3x2	C1866-031	183.62
3x1 1/2	C1866-032	166.36
4	C1866-040	410.07
4x3	C1866-041	363.27
4x2	C1866-042	355.58
6	C1866-060	586.97
6x4	C1866-061	505.99

Cleanout Plug MIPT



Size (in.)	Part #	Price
1 1/2	C1812-015	8.85
2	C1812-020	9.68
3	C1812-030	16.91
4	C1812-040	18.97
6	C1812-060	36.43
8	C1812-080	188.32

Counter Sunk Cleanout Plug



Size (in.)	Part #	Price
1 1/2	C1811-015	14.76
2	C1811-020	16.02
3	C1811-030	16.57
4	C1811-040	18.64
6	C1811-060	33.25

ALSCO™ SPEARS® LabWaste™ Drainage System

P-Trap
Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1804-015	77.19
2	C1804-020	107.72
3	C1804-030	195.53
4	C1804-040	347.55

P-Trap w/ Cleanout
Hub x Hub x Cleanout w/ plug



Size (in.)	Part #	Price
1 1/2	C1863-015	86.37

P-Trap w/ Plastic Nut (Union connection)
Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1833-015	67.21
2	C1833-020	116.41

Return Bend
Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1876-015	54.00
2	C1876-020	75.42
3	C1876-030	112.20
4	C1876-040	213.74

LA pattern P-Trap w/ Plastic Nut
(Union conn. w/Slip Joint) Slip x H w/Plastic nut



Size (in.)	Part #	Price
1 1/2	C1834-015	146.93

S-Trap
Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1831-015	102.93
2	C1831-020	143.63
3	C1831-030	261.66
4	C1831-040	473.45

Running Trap
Hub x Hub



Size (in.)	Part #	Price
1 1/2	C1832-015	102.93
2	C1832-020	143.63
3	C1832-030	261.66
4	C1832-040	472.94

Double 1/4 Bend (3 way Ell)
All Hub



Size (in.)	Part #	Price
1 1/2	C1825-015	79.91
2	C1825-020	139.63
3	C1825-030	178.49

CPVC-80 Vanstone flange socket



Size (in.)	Part #	Price
1 1/2	1854-015	14.28
2	1854-020	17.26
3	1854-030	33.88
4	1854-040	45.75
6	1854-060	77.97
8	1854-080	234.59

Cleanout Adapter
Spg x FPT



Size (in.)	Part #	Price
1 1/2	C1821-015	24.33
2	C1821-020	26.01
3	C1821-030	50.13
4	C1821-040	89.56
6	C1821-060	129.73
8	C1821-080	200.72

Tail Piece Adapter
Spg x Slip w/ plastic nut



Size (in.)	Part #	Price
1 1/2	C1828-015	25.72

CPVC Solvent Cement (Primerless, One Step)



Size	Part #	Price
Quart	LW5-030	63.86
Gallon	LW5-040	246.82

Pipe Diameter	Number of Joints
1/2”	300
3/4”	200
1”	125
1 1/2”	90
2”	60
3”	40
4”	30
6”	10
8”	5
10”	2-3
12”	1-2
15”	3/4
18”	1/2

These figures are based on laboratory tests. Due to many field variations, these should be used as a general guide only.

Spears® LabWaste™ Custom System Accessories

Complete drainage waste systems are composed of more than just pipe and fittings. We offer custom fabrication of virtually any system accessory for use with LabWaste CPVC Corrosive Waste Drainage Systems such as Floor Drains, Collection Tanks, Neutralization Tanks, and Pump Stations. Plus, custom built supplemental equipment including Fume Hoods, Wet-Stations, Laboratory Faucets and much more.



Spears® LabWaste™
Custom System Accessories

LabWaste™
Neutralization Tanks
Neutralization tanks allow pH balancing of corrosive wastes prior to disposal. Custom produced to virtually any capacity.

Acid Waste System

LabWaste™
Fume Hoods & Wet Process Stations
Full cabinet or counter-top models built to specifications

LabWaste™
Laboratory Fixtures
Standard and Recirculating designs

LabWaste™
Complete Tank & Pump Station
Tank & Pump Station provides collection of corrosive waste for Neutralization, holding, or transfer.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
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ecoFIT Metric PE100

ecoFIT Metric PE100 Pipe and Electrofusion Fittings



ecoFIT PE100 Industrial Polyethylene ushers in a new generation piping system designed specifically for broad-based applications. The dynamic combination of specifiable pipe, fittings, valves, and advanced fusion technologies integrates well into the industrial process industry.

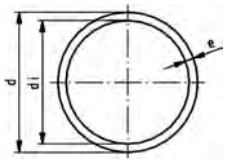
Due to its robust mechanical strength, high impact resistance (including very low temperatures) and excellent chemical resistance, ecoFIT PE100 Industrial Polyethylene is the best all-around product for your industrial process application. In addition to quality PE100 materials Georg Fischer Piping Systems offers state of the art Contact Butt fusion machines with controlled parameters and fast fusion times as well as proven Electrofusion technology all combining repeatable weld joints and confidence in weld quality.

Advantages:
- Robust mechanical strength
- High impact resistance at very low temperatures
- Good abrasion resistance
- High chemical resistance
- Ease of installation
- Low weight
- Excellent cost to performance ratio
- Safely and securely joined by heat fusion
- Corrosion-resistant

Technical Data:
- Size Range: 20mm - 250mm Metric
- Pressure Rating: SDR 11 (200 PSI) @ 73°F, SDR 17 (130 PSI) @ 73°F
- Operating Temperature: -50°C to 60°C (-58°F to 140°F)
- Joining Technology: IR Plus Fusion, Butt Fusion, Electrofusion
- Standard Ratings: ASTM D 2657, ASTM D 2737, ASTM D 3261a, NSF 61
- Material: Polyethylene (PE)

Fields of Application:
- Chilled Water
- Process Cooling Water
- Industrial Water Treatment
- Bulk Water Distribution
- Pharmaceutical Manufacturing
- Pulp and Paper Manufacturing
- HVAC
- Power Generation
- Semiconductor

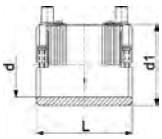




ecoFIT Metric PE100 Pipe - 5 Meters

Size (mm)	PN	d (mm)	di (mm)	e (mm)	Mfg Part #	Price $
20	16	20	16.2	1.9	193017156	4.16
25	16	25	20.4	2.3	193017157	5.63
32	16	32	26.2	2.9	193017158	8.00
40	16	40	32.6	3.7	193017159	11.70
50	16	50	40.8	4.6	193017160	17.30
63	16	63	51.4	5.8	193017161	26.80
75	16	75	61.4	6.8	193017162	39.30
90	10	90	79.8	5.1	193017113	33.85
110	10	110	97.4	6.3	193017114	46.35
160	10	160	141.8	9.1	193017117	97.00
225	10	225	199.4	12.8	193017120	198.90
250	10	250	221.6	14.2	193017121	284.10

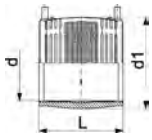




Coupler with Integral Pipe Fixation

Size d (mm)	d1 (mm)	L (mm)	Mfg Part #	Price $
20	31	70	753911606	6.30
25	36	70	753911607	7.10
32	44	72	753911608	7.60
40	54	80	753911609	8.00
50	66	88	753911610	12.40
63	81	96	753911611	13.10

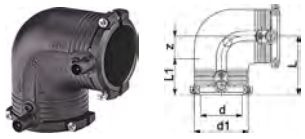




Coupler

Size d (mm)	d1 (mm)	L (mm)	Mfg Part #	Price $
75	96	110	753911612	18.40
90	113	125	753911613	26.80
110	138	145	753911614	29.80
160	196	180	753911617	54.20
225	273	225	753911620	114.00
250	304	248	753911621	159.00

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Elbow 90° with Integral Pipe Fixation

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
20	35	54	34	20	753101606	19.80
25	35	54	34	20	753101607	19.80
32	44	53	36	17	753101608	20.50
40	54	62	39	23	753101609	24.80
50	66	71	43	28	753101610	31.10
63	81	81	48	32	753101611	35.30



Elbow 90°

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
75	97	94	54	40	753101612	52.90
90	115	122	62	60	753101813	62.50
110	140	147	72	76	753101814	90.70
160	196	191	92	103	753101817	247.60



Elbow 90° with Two Separate Fusion Zones

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
225	280	318	112	206	753101820	788.10
250	310	347	123	224	753101821	1023.90



Elbow 45° with Integral Pipe Fixation

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
32	44	44	36	8	753151608	20.50
40	54	50	39	11	753151609	24.80
50	66	56	43	13	753151610	30.90
63	81	63	48	15	753151611	35.30



Elbow 45°

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
75	97	71	54	17	753151612	67.00
90	115	91	62	29	753151813	62.60
110	140	112	72	40	753151814	90.70
160	196	135	92	42	753151817	247.60



Elbow 45° with Two Separate Fusion Zones

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
225	280	247	112	135	753151820	788.10
250	310	275	123	152	753151821	1023.90



Tee 90° Equal with Integral Pipe Fixation

Size d (mm)	d1 (mm)	H (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	Mfg Part #	Price $
20	35	67	88	32	11	92	753211606	21.60
25	35	70	90	32	11	92	753211607	21.60
32	44	74	102	34	15	100	753211608	21.60
40	54	82	119	39	21	114	753211609	24.80
50	66	90	135	42	24	126	753211610	31.40
63	81	102	151	46	28	150	753211611	35.90



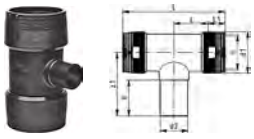
Tee 90° Equal

Size d (mm)	d1 (mm)	H (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	Mfg Part #	Price $
75	97	87	178	54	35	143	753211612	49.30
90	115	94	205	62	41	161	753201813	58.70
110	140	104	255	72	56	184	753201814	92.30
160	196	103	325	92	71	206	753201817	216.30



Tee 90° Equal with Two Separate Fusion Zones

Size d (mm)	d1 (mm)	H (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	Mfg Part #	Price $
225	280	122	636	112	206	270	753201820	817.90
250	310	127	685	123	220	288	753201821	1067.10

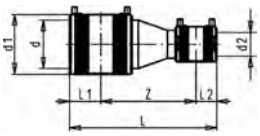


Tee 90° Reduced

Size d x d2 (mm)	d1 (mm)	H (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	Mfg Part #	Price $
110 x 90	140	80	255	72	56	245	753211034	171.20
160 x 63	200	65	493	90	127	176	753211037	582.10
160 x 90	200	79	492	90	158	188	753211039	582.10
160 x 110	200	85	491	90	158	195	753211040	582.10
225 x 90	280	80	666	112	217	226	753211069	1222.20
225 x 110	280	85	670	112	217	235	753211070	1222.20
225 x 160	280	105	667	112	217	255	753211073	1222.20
250 x 110	310	85	709	123	220	245	753211080	1413.30
250 x 160	310	101	711	123	220	264	753211083	1413.30

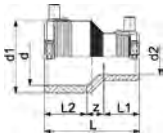
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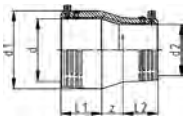
Reducer Kit

Size d x d2 (mm)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Mfg Part #	Price $
75 x 40	96	265	55	40	170	193280992	52.10
75 x 50	96	269	55	44	170	193280993	57.70
75 x 63	96	273	55	48	170	193280994	58.50
90 x 50	113	297	63	44	190	193280958	72.70
90 x 75	113	308	63	55	190	193280995	413.80
110 x 63	138	326	73	48	205	193280950	88.60
110 x 75	138	333	73	55	205	193280996	95.20
160 x 90	196	370	90	63	217	193280954	179.40

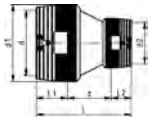
Reducer with Integral Pipe Fixation

Size d x d2 (mm)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Mfg Part #	Price $
25 x 20	35	74	34	34	6	753901639	14.10
32 x 20	44	79	33	36	10	753901640	14.10
32 x 25	44	79	33	36	10	753901641	14.10
40 x 20	54	88	33	39	15	753901644	18.70
40 x 25	54	88	33	39	15	753901645	18.70
40 x 32	54	88	33	39	13	753901646	18.20
50 x 32	66	96	35	43	18	753901651	22.70
50 x 40	66	96	39	43	14	753901652	25.10
63 x 32	81	105	35	48	23	753901656	27.00
63 x 40	81	105	39	48	19	753901657	27.00
63 x 50	81	105	43	48	15	753901658	27.00

Reducer

Size d x d2 (mm)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Mfg Part #	Price $
90 x 63	113	146	63	47	36	753901831	46.60
110 x 90	138	173	73	63	38	753901833	70.60
160 x 110	196	226	91	70	65	753901834	97.90

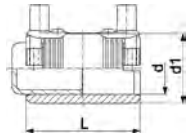
Reducer with Two Separate Fusion Zones

Size d x d2 (mm)	d1 (mm)	L (mm)	L1 (mm)	L2 (mm)	z (mm)	Mfg Part #	Price $
225 x 160	280	385	112	90	183	753901838	641.80
250 x 160	310	400	123	90	187	753901840	776.20



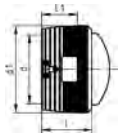

End Cap with Integral Pipe Fixation

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	Mfg Part #	Price $
20	35	52	44	753961606	13.80
25	35	52	44	753961607	14.80
32	44	52	44	753961608	16.90
40	54	56	47	753961609	18.70
50	66	60	49	753961610	27.60
63	81	66	54	753961611	30.90

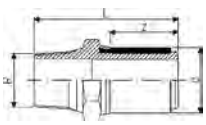
End Cap Kit

Size d (mm)	d1 (mm)	L (mm)	Mfg Part #	Price $
75	96	110	753961712	49.40
90	113	125	753961713	64.70
110	133	145	753961714	83.00

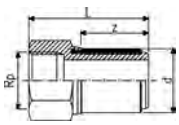
End Cap

Size d (mm)	d1 (mm)	L (mm)	L1 (mm)	Mfg Part #	Price $
160	200	143	90	753961617	143.80
225	280	170	112	753961620	423.90
250	310	185	123	753961621	555.20

Transition Adaptor PE/SS Male Thread NPT

Size d (mm)	NPT (in.)	L (mm)	z (mm)	Mfg Part #	Price $
20	1/2	75	33	153924706	39.30
25	3/4	76	33	153924707	50.30
32	1	80	35	153924708	60.50
40	1 1/4	86	39	153924709	76.80
50	1 1/2	90	43	153924710	79.60
63	2	98	47	153924711	97.70

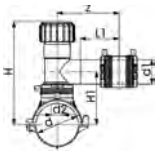



Transition Adaptor PE/SS Female Thread NPT

Size d (mm)	NPT (in.)	L (mm)	z (mm)	Mfg Part #	Price $
20	1/2	65	33	153924206	30.50
25	3/4	66	33	153924207	35.30
32	1	71	35	153924208	41.10
40	1 1/4	77	39	153924209	49.30
50	1 1/2	81	43	153924210	58.30
63	2	89	47	153924211	89.70

ecoFIT Metric PE100 Saddles





Tapping Saddle Kit with 360° Rotatable Outlet

Size d x d1 (mm)	d2 (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
63 x 20	32	186	108	165	76	130	193132402	68.80
63 x 25	32	186	108	165	76	130	193132403	69.80
63 x 32	32	186	108	165	76	130	193132404	70.40
63 x 40	32	186	108	165	76	130	193132405	76.50
63 x 50	32	234	112	165	100	160	193132436	91.20
63 x 63	32	234	112	165	100	160	193132437	82.10
75 x 20	32	191	113	165	76	130	193132442	73.60
75 x 25	32	191	113	165	76	130	193132443	74.60
75 x 32	32	191	113	165	76	130	193132444	75.20
75 x 40	32	240	118	165	76	160	193132445	81.30
75 x 50	32	240	118	165	100	160	193132446	96.10
75 x 63	32	240	118	165	100	160	193132447	86.90
90 x 20	32	199	121	165	76	130	193132452	73.80
90 x 25	32	199	121	165	76	130	193132453	74.80
90 x 32	32	199	121	165	76	130	193132454	75.40
90 x 40	32	199	126	165	76	130	193132455	81.50
90 x 50	32	248	126	165	100	160	193132456	96.20
90 x 63	32	248	126	165	100	160	193132457	87.10
110 x 20	32	209	131	165	76	130	193132462	80.60
110 x 25	32	209	131	165	76	130	193132463	81.50
110 x 32	32	209	131	165	76	130	193132464	82.10
110 x 40	32	209	136	165	76	130	193132465	88.20
110 x 50	35	258	136	165	100	160	193132466	103.00
110 x 63	35	258	136	165	100	160	193132467	93.80
160 x 20	32	234	156	165	76	130	193132492	123.50
160 x 25	32	234	156	165	76	130	193132493	124.50
160 x 32	32	234	156	165	76	130	193132494	125.10
160 x 40	32	234	161	165	76	130	193132495	131.20
160 x 50	35	283	161	165	100	160	193132496	145.90
160 x 63	35	283	161	165	100	160	193132497	136.80
225 x 20	32	266	188	165	71	130	193132522	160.70
225 x 25	32	266	188	165	71	130	193132523	161.70
225 x 32	32	266	188	165	76	130	193132524	162.30
225 x 40	32	266	193	165	76	130	193132525	168.40
225 x 50	35	315	193	165	100	160	193132526	183.10
225 x 63	35	315	193	165	100	160	193132527	174.00

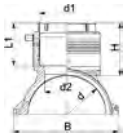




Electrofusion Saddle

Size d x d1 (mm)	Length (mm)	Mfg Part #	Price $
63 x 63	165	193131037	32.40
75 x 63	165	193131047	37.00
90 x 63	165	193131057	37.10
110 x 63	182	193133067	43.70
160 x 63	182	193133097	86.00
225 x 63	165	193131127	122.30
250 x 63	165	193131137	182.80



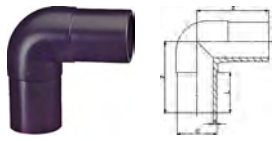


Branch Saddle

Size d x d1 (mm)	B (mm)	d2 (mm)	H (mm)	L (mm)	L1 (mm)	Mfg Part #	Price $
110 x 90	164	65	101	220	82	193135009	249.30
110 x 110	164	65	107	220	88	193135010	260.30
160 x 90	215	65	102	240	82	193135039	340.50
160 x 110	215	86	108	240	88	193135040	351.90
225 x 90	287	65	102	260	82	193135069	381.90
225 x 110	287	86	108	260	88	193135070	396.90
250 x 90	312	65	102	260	82	193135079	406.10
250 x 110	312	86	108	260	88	193135080	419.90

All prices subject to change without notice.

ecoFIT Metric PE100 Long Spigot Butt Fusion Fittings



Elbow 90°

Size d (mm)	e (mm)	L (mm)	z (mm)	Mfg Part #	Price $
20	3.0	52	75	753101006	4.90
25	3.0	52	80	753101007	5.00
32	3.0	54	85	753101008	5.50
40	3.7	57	95	753101009	7.00
50	4.6	63	105	753101010	9.10
63	5.8	65	115	753101011	16.60
75	6.8	72	130	753101012	21.80
90	5.4	81	150	753100813	22.30
110	6.6	86	165	753100814	41.70
160	9.5	102	210	753100817	77.30
225	13.4	120	270	753100820	142.90
250	14.8	130	292	753100821	276.50



Elbow 45°

Size d (mm)	e (mm)	L (mm)	z (mm)	Mfg Part #	Price $
20	3.0	52	70	753151006	4.30
25	3.0	52	75	753151007	4.40
32	3.0	54	80	753151008	6.50
40	3.7	57	85	753151009	8.00
50	4.6	63	90	753151010	9.30
63	5.8	65	95	753151011	16.60
75	6.8	72	105	753151012	22.30
90	5.4	81	120	753150813	22.30
110	6.6	86	130	753150814	36.40
160	9.5	102	162	753150817	77.30
225	13.4	123	205	753150820	142.90
250	14.8	130	217	753150821	278.00



Cap

Size d (mm)	e (mm)	L (mm)	z (mm)	Mfg Part #	Price $
20	3.0	52	52	753961006	4.15
25	3.0	52	52	753961007	4.50
32	3.0	54	54	753961008	5.70
40	3.7	57	57	753961009	6.90
50	4.6	63	63	753961010	8.90
63	5.8	65	65	753961011	11.80
75	6.8	72	80	753961012	21.80
90	5.4	81	90	753960813	26.50
110	6.6	86	98	753960814	33.70
160	9.5	102	120	753960817	50.80
225	13.4	122	148	753960820	104.10
250	14.8	130	205	753960821	141.20



Tee 90° Equal

Size d (mm)	e (mm)	L (mm)	z (mm)	z1 (mm)	Mfg Part #	Price $
90	5.4	80	300	150	753200813	31.20
110	6.6	86	330	165	753200814	44.40
160	9.5	104	428	214	753200817	110.00
225	13.4	122	540	270	753200820	263.80
250	14.8	130	575	288	753200821	375.40



Tee 90° Reduced

Size d x d1 (mm)	e (mm)	e1 (mm)	L (mm)	L1 (mm)	z (mm)	z1 (mm)	Mfg Part #	Price $
63 x 40	2.0	1.75	60	58	230	107	753201026	35.80
63 x 50	5.8	4.6	60	56	216	103	753201044	35.80
75 x 32	6.8	2.9	70	46	258	106	753201045	55.50
75 x 50	6.8	4.6	70	56	257	110	753201046	55.50
75 x 63	6.8	5.8	70	63	252	117	753201047	55.50
110 x 90	6.6	5.4	82	79	318	158	753200832	134.10
160 x 90	9.5	5.4	98	79	410	188	753200836	297.00
160 x 110	9.5	6.6	98	82	410	195	753200837	298.90
225 x 90	13.4	5.4	127	80	555	226	753200840	670.00
225 x 110	13.4	6.6	127	82	555	235	753200841	674.30
225 x 160	13.4	9.5	127	98	555	253	753200842	675.90
250 x 110	14.8	6.6	130	82	575	242	753201878	918.80
250 x 160	14.8	9.5	130	98	575	261	753201879	936.80



Tee 45° Equal

Size d (mm)	e (mm)	L (mm)	z (mm)	z1 (mm)	Mfg Part #	Price $
50	4.6	56	218	139	753251010	POA
63	6.2	63	255	158	753251011	95.00
75	6.8	70	301	190	753251012	143.50
90	5.4	79	368	234	753251063	214.30
110	6.6	82	395	260	753251064	304.30

ecoFIT Metric PE100 Long Spigot Butt Fusion Fittings



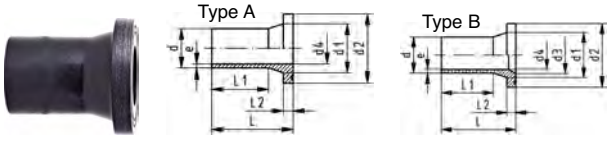
Reducer

Size d x d1 (mm)	e (mm)	e1 (mm)	L (mm)	L1 (mm)	z (mm)	Mfg Part #	Price $
25 x 20	3.0	3.0	52	52	115	753901038	3.80
32 x 20	3.0	3.0	54	52	120	753901042	3.80
32 x 25	3.0	3.0	54	52	120	753901041	3.80
40 x 20	3.7	3.0	57	52	129	753901048	5.50
40 x 25	3.7	3.0	57	52	129	753901047	5.50
40 x 32	3.7	3.0	57	53	129	753901046	5.50
50 x 20	4.6	3.0	63	52	149	753901055	6.30
50 x 25	4.6	3.0	63	52	139	753901054	6.30
50 x 32	4.6	3.0	63	53	140	753901053	6.30
50 x 40	4.6	3.7	63	57	139	753901052	6.30
63 x 32	5.8	3.0	65	53	149	753901060	8.90
63 x 40	5.8	3.7	65	57	150	753901059	8.90
63 x 50	5.8	4.6	65	63	150	753901058	8.90
75 x 40	6.8	3.7	72	57	170	753901063	13.40
75 x 50	6.8	4.6	72	63	170	753901064	13.40
75 x 63	6.8	5.8	72	65	170	753901065	13.40
110 x 90	6.6	5.4	85	80	205	753900876	24.50
160 x 90	9.5	5.4	120	85	248	753900888	56.80
160 x 110	9.5	6.6	100	85	245	753900890	56.80
225 x 160	13.4	9.5	120	100	280	753900896	128.60
250 x 225	14.8	13.4	162	120	332	753900802	201.40



Hose Connector

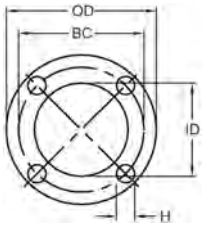
Size d (mm)	d1 (mm)	e (mm)	L (mm)	L1 (mm)	Mfg Part #	Price $
20	20	1.9	64	27	753968606	25.40
25	25	2.3	75	36	753968607	30.80
32	32	2.9	82	36	753968608	39.70
40	40	3.7	84	42	753968609	46.30
50	50	4.6	90	48	753968610	89.10
63	60	5.8	100	50	753968611	98.00



Flange Adapter

Size d (mm)	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	e (mm)	L (mm)	L1 (mm)	L2 (mm)	Type	Mfg Part #	Price $
20	27	45	-	16	1.9	85	41	7	A	753800006	4.05
25	33	54	-	20	2.3	85	41	9	A	753800057	4.25
32	40	63	-	26	3.0	85	44	10	A	753800058	6.90
40	50	73	-	32	3.7	85	49	11	A	753800059	5.80
50	61	82	-	40	4.6	105	55	12	A	753800060	6.30
63	75	102	-	51	5.8	98	69	14	A	753800011	7.50
75	89	122	66	61	6.8	125	89	16	B	753800012	9.30
90	105	138	-	79	5.4	140	103	17	A	753800088	12.20
110	125	158	-	96	6.6	160	117	18	A	753800089	15.30
160	175	212	151	141	9.5	200	147	25	B	753800092	27.40
225	235	268	210	198	13.4	200	138	32	B	753800095	52.40
250	285	320	245	220	14.8	220	148	25	B	753800096	87.70





Flange Backup Ring, GF PE100 for IPS PE Piping, ANSI

Size (mm)	BC (in)	H (in)	I.D. (in)	O.D. (in)	# Holes	Black Epoxy #	Price $	Stainless Steel #	Price $
2	4.75	0.75	2.63	6.00	4	153701111	POA	153701211	POA
3	6.00	0.75	3.63	7.50	4	153701113	POA	153701213	POA
4	7.50	0.75	4.63	9.00	8	153701114	POA	153701214	POA
6	9.50	0.88	6.75	11.00	8	153701115	POA	153701215	POA
8	11.75	0.88	8.75	13.50	8	153701116	POA	153701216	POA
10	14.25	1.00	10.94	16.00	12	153701117	POA	153701217	POA
12	17.00	1.00	13.00	19.00	12	153701118	POA	153701218	POA
14	18.75	1.13	14.38	21.00	12	153701119	POA	153701219	POA
16	21.25	1.13	16.19	23.50	16	153701120	POA	153701220	POA
18	22.75	1.25	18.38	25.00	16	153701121	POA	153701221	POA
20	25.00	1.25	20.38	27.50	20	153701122	POA	153701222	POA
22	27.25	1.38	22.38	29.50	20	153701123	POA	153701223	POA
24	29.50	1.38	24.38	32.00	20	153701124	POA	153701224	POA

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 042219

ALSCO™ Stainless Steel 316 - Pipe & Fittings

PIPE - Stainless Steel Sch. 40 P. E.

Size (in) Nom. IPS	Part #	O.D.	Nom. Wall Thickness	Price Per Ft.
1/4	8300-002	.540	.088	$ 4.89
3/8	8300-003	.675	.091	5.61
1/2	8300-005	.840	.109	7.30
3/4	8300-007	1.050	.113	8.24
1	8300-010	1.315	.133	11.24
1 1/4	8300-012	1.660	.140	14.25
1 1/2	8300-015	1.900	.145	16.88
2	8300-020	2.375	.154	22.17
2 1/2	8300-025	2.875	.203	32.38
3	8300-030	3.500	.216	50.60
4	8300-040	4.500	.237	58.41

Pipe Specifications:

- 1/4" through 4" (Standard 20 Ft. random lengths)
- 316 SS - Sch. 40 Pipe, 150 lbs.
- Meets ASTM, A - 312
- P. E. ends

Note: Larger pipe sizes are available upon request.

Fitting Specifications:

- 1/4" through 4"
- Screwed 150 lbs. Fittings
- Generally conform to ASA B16.3
- Pipe threads conform to ASA B2.1



90° Elbow threaded

Size (in.)	Part #	Price
1/4	8301-002	4.08
3/8	8301-003	5.44
1/2	8301-005	5.74
3/4	8301-007	8.35
1	8301-010	9.95
1 1/4	8301-012	17.05
1 1/2	8301-015	22.74
2	8301-020	28.74
2 1/2	8301-025	63.14
3	8301-030	86.86
4	8301-040	159.62



Tee threaded

Size (in.)	Part #	Price
1/4	8302-002	5.57
3/8	8302-003	7.39
1/2	8302-005	7.94
3/4	8302-007	11.69
1	8302-010	13.10
1 1/4	8302-012	26.08
1 1/2	8302-015	31.65
2	8302-020	40.77
2 1/2	8302-025	95.30
3	8302-030	136.02
4	8302-040	221.60



45° Elbow threaded

Size (in.)	Part #	Price
1/4	8303-002	5.14
3/8	8303-003	5.14
1/2	8303-005	7.13
3/4	8303-007	9.08
1	8303-010	10.70
1 1/4	8303-012	16.83
1 1/2	8303-015	20.02
2	8303-020	27.98
2 1/2	8303-025	73.31
3	8303-030	105.82
4	8303-040	199.20



Coupling threaded

Size (in.)	Part #	Price
1/4	8304-002	2.53
3/8	8304-003	2.70
1/2	8304-005	4.35
3/4	8304-007	6.66
1	8304-010	8.46
1 1/4	8304-012	15.43
1 1/2	8304-015	15.98
2	8304-020	22.49
2 1/2	8304-025	52.84
3	8304-030	68.25
4	8304-040	112.26



Cap threaded

Size (in.)	Part #	Price
1/4	8306-002	2.61
3/8	8306-003	3.08
1/2	8306-005	3.56
3/4	8306-007	4.09
1	8306-010	6.27
1 1/4	8306-012	12.31
1 1/2	8306-015	15.78
2	8306-020	20.21
2 1/2	8306-025	35.84
3	8306-030	46.93
4	8306-040	81.55



Hex Head Plug threaded

Size (in.)	Part #	Price
1/4	8308-002	1.58
3/8	8308-003	2.08
1/2	8308-005	3.11
3/4	8308-007	3.91
1	8308-010	7.46
1 1/4	8308-012	12.37
1 1/2	8308-015	14.64
2	8308-020	21.12
2 1/2	8308-025	33.98
3	8308-030	43.60
4	8308-040	97.45



Square Head Plug threaded

Size (in.)	Part #	Price
1/4	8309-002	1.88
3/8	8309-003	2.48
1/2	8309-005	3.51
3/4	8309-007	4.28
1	8309-010	5.35
1 1/4	8309-012	12.65
1 1/2	8309-015	13.98
2	8309-020	19.29
2 1/2	8309-025	31.07
3	8309-030	37.77
4	8309-040	82.79



Union threaded

Size (in.)	Part #	Price
1/4	8310-002	12.17
3/8	8310-003	12.39
1/2	8310-005	13.45
3/4	8310-007	17.05
1	8310-010	25.74
1 1/4	8310-012	44.50
1 1/2	8310-015	50.51
2	8310-020	60.23
2 1/2	8310-025	154.79
3	8310-030	215.22
4	8310-040	366.61



Cross threaded

Size (in.)	Part #	Price
1/4	8311-002	10.45
3/8	8311-003	12.30
1/2	8311-005	13.37
3/4	8311-007	23.36
1	8311-010	28.20
1 1/4	8311-012	46.00
1 1/2	8311-015	57.43
2	8311-020	79.11
2 1/2	8311-025	197.85
3	8311-030	215.48
4	8311-040	349.14



90° Street Elbow threaded

Size (in.)	Part #	Price
1/4	8312-002	5.56
3/8	8312-003	6.84
1/2	8312-005	8.05
3/4	8312-007	10.60
1	8312-010	16.92
1 1/4	8312-012	25.29
1 1/2	8312-015	28.17
2	8312-020	40.23
2 1/2	8312-025	93.81
3	8312-030	121.58
4	8312-040	240.12



Reducing Coupling threaded*

Size (in.)	Part #	Price
1/4x1/8	8305-002-1/8	4.38
3/8x1/8	8305-003-1/8	4.21
3/8x1/4	8305-003-1/4	4.21
1/2x1/4	8305-005-1/4	7.06
1/2x3/8	8305-005-3/8	7.06
3/4x3/8	8305-007-3/8	8.96
3/4x1/2	8305-007-1/2	8.96
1x1/2	8305-010-1/2	10.66
1x3/4	8305-010-3/4	10.66
1 1/2x3/4	8305-015-3/4	18.59
1 1/2x1	8305-015-1	18.59
2x1	8305-020-1	31.25
2x1 1/2	8305-020-1 1/2	31.25
3x1 1/2	8305-030-1 1/2	92.52
3x2	8305-030-2	92.52
4x2	8305-040-2	153.40
4x3	8305-040-3	153.40



Red. Bushing MPT x FPT*

Size (in.)	Part #	Price
1/4x1/8	8307-002-1/8	2.56
3/8x1/8	8307-003-1/8	2.67
3/8x1/4	8307-003-1/4	2.67
1/2x1/4	8307-005-1/4	3.29
1/2x3/8	8307-005-3/8	3.29
3/4x3/8	8307-007-3/8	4.66
3/4x1/2	8307-007-1/2	4.66
1x1/2	8307-010-1/2	7.39
1x3/4	8307-010-3/4	7.39
1 1/2x3/4	8307-015-3/4	15.37
1 1/2x1	8307-015-1	15.37
2x1	8307-020-1	22.77
2x1 1/2	8307-020-1 1/2	22.77
3x1 1/2	8307-030-1 1/2	57.01
3x2	8307-030-2	57.01
4x2	8307-040-2	102.53
4x3	8307-040-3	102.53

*Other reducing configurations available. Please contact Sales Office for availability.

Stainless Steel 316 Nipples



Stainless Steel Nipples MPT x MPT

All nipples are manufactured from new, mill-tested pipe. All nipples conform to ASTM, A - 312. 150 lbs.



Part #	Dia.x Length	Price
8313-005	1/8" x Close	1.58
8313-015	1/8" x 1 1/2"	2.21
8313-020	1/8" x 2"	2.69
8313-025	1/8" x 2 1/2"	3.17
8313-030	1/8" x 3"	3.65
8313-035	1/8" x 3 1/2"	4.14
8313-040	1/8" x 4"	4.62
8313-045	1/8" x 4 1/2"	5.11
8313-050	1/8" x 5"	5.59
8313-055	1/8" x 5 1/2"	6.07
8313-060	1/8" x 6"	6.56
8313-070	1/8" x 7"	7.62
8313-080	1/8" x 8"	8.46
8313-090	1/8" x 9"	9.56
8313-100	1/8" x 10"	10.51
8313-110	1/8" x 11"	11.50
8313-120	1/8" x 12"	12.47

Part #	Dia.x Length	Price
8314-005	1/4" x Close	1.77
8314-015	1/4" x 1 1/2"	2.27
8314-020	1/4" x 2"	2.77
8314-025	1/4" x 2 1/2"	3.30
8314-030	1/4" x 3"	3.85
8314-035	1/4" x 3 1/2"	4.37
8314-040	1/4" x 4"	4.95
8314-045	1/4" x 4 1/2"	5.48
8314-050	1/4" x 5"	6.28
8314-055	1/4" x 5 1/2"	6.55
8314-060	1/4" x 6"	7.09
8314-070	1/4" x 7"	8.28
8314-080	1/4" x 8"	9.35
8314-090	1/4" x 9"	10.42
8314-100	1/4" x 10"	11.49
8314-110	1/4" x 11"	12.82
8314-120	1/4" x 12"	13.63

Part #	Dia.x Length	Price
8315-005	3/8" x Close	2.19
8315-015	3/8" x 1 1/2"	2.74
8315-020	3/8" x 2"	3.49
8315-025	3/8" x 2 1/2"	4.03
8315-030	3/8" x 3"	4.70
8315-035	3/8" x 3 1/2"	5.37
8315-040	3/8" x 4"	6.04
8315-045	3/8" x 4 1/2"	6.71
8315-050	3/8" x 5"	7.24
8315-055	3/8" x 5 1/2"	8.05
8315-060	3/8" x 6"	8.72
8315-070	3/8" x 7"	9.84
8315-080	3/8" x 8"	11.58
8315-090	3/8" x 9"	12.92
8315-100	3/8" x 10"	14.26
8315-110	3/8" x 11"	15.60
8315-120	3/8" x 12"	16.94

Part #	Dia.x Length	Price
8316-005	1/2" x Close	2.91
8316-015	1/2" x 1 1/2"	3.60
8316-020	1/2" x 2"	4.39
8316-025	1/2" x 2 1/2"	5.31
8316-030	1/2" x 3"	6.23
8316-035	1/2" x 3 1/2"	7.15
8316-040	1/2" x 4"	8.09
8316-045	1/2" x 4 1/2"	9.01
8316-050	1/2" x 5"	9.82
8316-055	1/2" x 5 1/2"	10.84
8316-060	1/2" x 6"	11.76
8316-070	1/2" x 7"	13.72
8316-080	1/2" x 8"	15.56
8316-090	1/2" x 9"	17.39
8316-100	1/2" x 10"	19.23
8316-110	1/2" x 11"	21.72
8316-120	1/2" x 12"	22.91

Part #	Dia.x Length	Price
8317-005	3/4" x Close	3.81
8317-015	3/4" x 1 1/2"	4.07
8317-020	3/4" x 2"	4.96
8317-025	3/4" x 2 1/2"	6.00
8317-030	3/4" x 3"	7.04
8317-035	3/4" x 3 1/2"	8.08
8317-040	3/4" x 4"	9.12
8317-045	3/4" x 4 1/2"	10.29
8317-050	3/4" x 5"	11.20
8317-055	3/4" x 5 1/2"	12.24
8317-060	3/4" x 6"	13.28
8317-070	3/4" x 7"	15.45
8317-080	3/4" x 8"	17.53
8317-090	3/4" x 9"	19.61
8317-100	3/4" x 10"	21.69
8317-110	3/4" x 11"	23.77
8317-120	3/4" x 12"	25.85

Part #	Dia.x Length	Price
8318-005	1" x Close	5.28
8318-020	1" x 2"	6.70
8318-025	1" x 2 1/2"	8.04
8318-030	1" x 3"	9.45
8318-035	1" x 3 1/2"	10.86
8318-040	1" x 4"	12.28
8318-045	1" x 4 1/2"	13.82
8318-050	1" x 5"	15.11
8318-055	1" x 5 1/2"	16.52
8318-060	1" x 6"	17.94
8318-070	1" x 7"	20.99
8318-080	1" x 8"	23.81
8318-090	1" x 9"	26.64
8318-100	1" x 10"	29.72
8318-110	1" x 11"	32.30
8318-120	1" x 12"	35.12

Part #	Dia.x Length	Price
8319-005	1 1/4" x Close	7.23
8319-020	1 1/4" x 2"	8.59
8319-025	1 1/4" x 2 1/2"	10.30
8319-030	1 1/4" x 3"	12.13
8319-035	1 1/4" x 3 1/2"	13.95
8319-040	1 1/4" x 4"	15.77
8319-045	1 1/4" x 4 1/2"	17.73
8319-050	1 1/4" x 5"	18.64
8319-055	1 1/4" x 5 1/2"	21.24
8319-060	1 1/4" x 6"	23.06
8319-070	1 1/4" x 7"	26.78
8319-080	1 1/4" x 8"	30.43
8319-090	1 1/4" x 9"	34.07
8319-100	1 1/4" x 10"	37.72
8319-110	1 1/4" x 11"	41.36
8319-120	1 1/4" x 12"	45.01

Part #	Dia.x Length	Price
8320-005	1 1/2" x Close	8.92
8320-020	1 1/2" x 2"	9.87
8320-025	1 1/2" x 2 1/2"	10.73
8320-030	1 1/2" x 3"	14.18
8320-035	1 1/2" x 3 1/2"	16.47
8320-040	1 1/2" x 4"	18.49
8320-045	1 1/2" x 4 1/2"	20.38
8320-050	1 1/2" x 5"	22.79
8320-055	1 1/2" x 5 1/2"	24.95
8320-060	1 1/2" x 6"	27.10
8320-070	1 1/2" x 7"	31.58
8320-080	1 1/2" x 8"	35.89
8320-090	1 1/2" x 9"	40.07
8320-100	1 1/2" x 10"	44.50
8320-110	1 1/2" x 11"	48.81
8320-120	1 1/2" x 12"	53.11

Part #	Dia.x Length	Price
8321-005	2" x Close	14.12
8321-025	2" x 2 1/2"	15.86
8321-030	2" x 3"	18.52
8321-035	2" x 3 1/2"	21.35
8321-040	2" x 4"	24.19
8321-045	2" x 4 1/2"	27.03
8321-050	2" x 5"	29.88
8321-055	2" x 5 1/2"	32.71
8321-060	2" x 6"	35.55
8321-070	2" x 7"	41.63
8321-080	2" x 8"	47.30
8321-090	2" x 9"	52.99
8321-100	2" x 10"	58.66
8321-110	2" x 11"	64.35
8321-120	2" x 12"	83.02

Part #	Dia.x Length	Price
8322-005	2 1/2" x Close	26.35
8322-030	2 1/2" x 3"	30.50
8322-035	2 1/2" x 3 1/2"	37.25
8322-040	2 1/2" x 4"	38.80
8322-045	2 1/2" x 4 1/2"	42.55
8322-050	2 1/2" x 5"	46.67
8322-055	2 1/2" x 5 1/2"	50.82
8322-060	2 1/2" x 6"	54.96
8322-070	2 1/2" x 7"	64.00
8322-080	2 1/2" x 8"	72.29
8322-090	2 1/2" x 9"	80.59
8322-100	2 1/2" x 10"	88.88
8322-110	2 1/2" x 11"	97.18
8322-120	2 1/2" x 12"	105.47

Part #	Dia.x Length	Price
8323-005	3" x Close	37.33
8323-030	3" x 3"	41.48
8323-035	3" x 3 1/2"	47.00
8323-040	3" x 4"	52.53
8323-045	3" x 4 1/2"	55.42
8323-050	3" x 5"	61.20
8323-055	3" x 5 1/2"	66.73
8323-060	3" x 6"	73.55
8323-070	3" x 7"	86.03
8323-080	3" x 8"	97.08
8323-090	3" x 9"	108.13
8323-100	3" x 10"	119.18
8323-110	3" x 11"	130.22
8323-120	3" x 12"	141.29

Part #	Dia.x Length	Price
8325-005	4" x Close	50.42
8325-040	4" x 4"	67.24
8325-045	4 x 4 1/2"	74.22
8325-050	4" x 5"	81.69
8325-055	4" x 5 1/2"	89.29
8325-060	4" x 6"	96.65
8325-070	4" x 7"	115.07
8325-080	4" x 8"	130.02
8325-090	4" x 9"	145.10
8325-100	4" x 10"	159.92
8325-110	4" x 11"	174.87
8325-120	4" x 12"	189.82

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Ball Valves

ASAHI Duo-Bloc Type 21 True Union Ball Valves



Features:

- True Union design permits installation or repair without expanding the pipeline
- Blocks in two directions, upstream and downstream, leaving full pressure on the opposite end of the valve
- PTFE seats with elastomeric backing cushions ensure bubble-tight shut-off and a low fixed torque, while at the same time compensating for wear
- All sizes rated for full vacuum service
- Pressure rated up to 230PSI (PVC,CPVC,PVDF)
- Double O-ring seals on stem for an added protection
- CPVC threaded end connectors on sizes 1/2" - 1" come with stainless steel reinforcing rings

Sizes: 1/2" - 6"
Socket, Threaded, Flanged, Butt fusion
Bodies: PVC, CPVC, PP, PVDF
Seats: PTFE backed with EPDM or FKM
Seals: EPDM or FKM (Fpm® type)

PRESSURE VS TEMPERATURE (PSI, WATER, NON-SHOCK)

Size (inches)	PVC 30° F 120° F	CPVC 30° F 120° F	CPVC 121° F 140° F	CPVC 141° F 175° F	CPVC 176° F 195° F	PP -5° F 85° F	PP 86° F 140° F	PP 141° F 175° F	PVDF -5° F 140° F	PVDF 141° F 175° F	PVDF 176° F 195° F	PVDF 196° F 210° F
½–2	150	150	120	85	55	150	85	60	150	120	110	85
2½	150	150	120	85	55	150	75	45	150	120	110	85
3-6	150	150	85	60	45	150	75	45	150	85	85	75

Valve Stem Torque

Size (in.)	Torque (in.-lbs.)
1/2	31
3/4	39
1	44
1 1/4	44
1 1/2	65
2	74
2 1/2	178
3	280
4	521
6	521

4

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/2	6700-005	$42.90
3/4	6700-007	$52.14
1	6700-010	$60.72
1 1/4	6700-012	$79.86
1 1/2	6700-015	$99.66
2	6700-020	$133.98
2 1/2	6700-025-S	$295.68
2 1/2	6700-025-T	$295.68
3	6700-030-S	$304.26
3	6700-030-T	$304.26
4	6700-040-S	$535.92
4	6700-040-T	$535.92
6**	6700-060-S	$1307.46
6**	6700-060-T	$1307.46

Size (in.)*	PVC/FKM◊ soc./thr. Part #	Price $
1/2	6702-005	$46.20
3/4	6702-007	$58.74
1	6702-010	$68.64
1 1/4	6702-012	$93.06
1 1/2	6702-015	$112.20
2	6702-020	$147.18
2 1/2	6702-025-S	$347.82
2 1/2	6702-025-T	$347.82
3	6702-030-S	$357.72
3	6702-030-T	$357.72
4	6702-040-S	$605.88
4	6702-040-T	$605.88
6**	6702-060-S	$1419.00
6**	6702-060-T	$1419.00

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/2	6704-005	$62.70
3/4	6704-007	$77.22
1	6704-010	$97.02
1 1/4	6704-012	$133.98
1 1/2	6704-015	$160.38
2	6704-020	$219.12
2 1/2	6704-025-S	$608.52
2 1/2	6704-025-T	$608.52
3	6704-030-S	$627.66
3	6704-030-T	$627.66
4	6704-040-S	$1076.46
4	6704-040-T	$1076.46
6**	6704-060-S	$1885.62
6**	6704-060-T	$1885.62

Size (in.)*	CPVC/FKM◊ soc./thr. Part #	Price $
1/2	6706-005	$66.66
3/4	6706-007	$81.18
1	6706-010	$102.30
1 1/4	6706-012	$141.24
1 1/2	6706-015	$169.62
2	6706-020	$231.66
2 1/2	6706-025-S	$646.14
2 1/2	6706-025-T	$646.14
3	6706-030-S	$667.92
3	6706-030-T	$667.92
4	6706-040-S	$1145.10
4	6706-040-T	$1145.10
6**	6706-060-S	$2110.68
6**	6706-060-T	$2110.68

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	6701-005	$94.00
3/4	6701-007	$105.00
1	6701-010	$140.00
1 1/4	6701-012	$223.00
1 1/2	6701-015	$259.00
2	6701-020	$370.00
2 1/2	6701-025	$492.00
3	6701-030	$665.00
4	6701-040	$1100.00
6**	6701-060	$1602.00

Size (in.)	PVC/FKM◊ flanged Part #	Price $
1/2	6703-005	$108.00
3/4	6703-007	$115.00
1	6703-010	$155.00
1 1/4	6703-012	$254.00
1 1/2	6703-015	$273.00
2	6703-020	$385.00
2 1/2	6703-025	$589.00
3	6703-030	$740.00
4	6703-040	$1194.00
6**	6703-060	$1693.00

Size (in.)	CPVC/EPDM flanged Part #	Price $
1/2	6705-005	$136.00
3/4	6705-007	$155.00
1	6705-010	$204.00
1 1/4	6705-012	$329.00
1 1/2	6705-015	$399.00
2	6705-020	$547.00
2 1/2	6705-025	$664.00
3	6705-030	$945.00
4	6705-040	$1826.00
6**	6705-060	$2775.00

Size (in.)	CPVC/FKM◊ flanged Part #	Price $
1/2	6707-005	$145.00
3/4	6707-007	$169.00
1	6707-010	$221.00
1 1/4	6707-012	$359.00
1 1/2	6707-015	$415.00
2	6707-020	$567.00
2 1/2	6707-025	$757.00
3	6707-030	$1190.00
4	6707-040	$1924.00
6**	6707-060	$2867.00

Size (in.)	PP/EPDM flanged Part #	Price $
1/2	1621-005	$138.00
3/4	1621-007	$161.00
1	1621-010	$208.00
1 1/4	1621-012	$389.00
1 1/2	1621-015	$541.00
2	1621-020	$541.00
2 1/2	1621-025	$712.00
3	1621-030	$990.00
4	1621-040	$1452.00
6**	1621-060	$6182.00

Size (in.)	PP/FKM◊ flanged Part #	Price $
1/2	1625-005	$157.00
3/4	1625-007	$185.00
1	1625-010	$238.00
1 1/4	1625-012	$443.00
1 1/2	1625-015	$615.00
2	1625-020	$615.00
2 1/2	1625-025	$808.00
3	1625-030	$1123.00
4	1625-040	$1650.00
6**	1625-060	$6861.00

Size (in.)	PVDF/FKM◊ flanged Part #	Price $
1/2	1629005	$441.00
3/4	1629007	$565.00
1	1629010	$793.00
1 1/4	1629012	$937.00
1 1/2	1629015	$1159.00
2	1629020	$1578.00
2 1/2	1629025	$2673.00
3	1629030	$3434.00
4	1629040	$6590.00
6	1629060	$9083.00

*1/2" thru 2" PVC and CPVC valves are supplied with both socket and threaded end connectors. 2 1/2" and above are supplied with either socket or threaded end connectors.
**6" venturied from 4" valve. 6" PP Flanged ball valve is Full port and of special design. ◊FKM = Fpm® type

All PP and PVDF valves in threaded, butt fusion, DIN socket and IPS socket are located on the next page.

Ball Valves

ASAHI Duo-Bloc Type 21 True Union Ball Valves



Features:

- True Union design permits installation or repair without expanding the pipeline
- Blocks in two directions, upstream and downstream, leaving full pressure on the opposite end of the valve
- PTFE seats with elastomeric backing cushions ensure bubble-tight shut-off and a low fixed torque, while at the same time compensating for wear
- All sizes rated for full vacuum service
- Pressure rated up to 230PSI (PVC,CPVC,PVDF)
- Double O-ring seals on stem for an added protection
- CPVC threaded end connectors on sizes 1/2" - 1" come with stainless steel reinforcing rings

Sizes: 1/2" - 6"
Socket, Threaded, Flanged, Butt fusion
Bodies: PVC, CPVC, PP, PVDF
Seats: PTFE backed with EPDM or FKM
Seals: EPDM or FKM (Fpm® type)

PRESSURE VS TEMPERATURE (PSI, WATER, NON-SHOCK)

Size (inches)	PVC	CPVC				PP			PVDF			
	30° F 120° F	30° F 120° F	121° F 140° F	141° F 175° F	176° F 195° F	-5° F 85° F	86° F 140° F	141° F 175° F	-5° F 140° F	141° F 175° F	176° F 195° F	196° F 210° F
½–2	150	150	120	85	55	150	85	60	150	120	110	85
2½	150	150	120	85	55	150	75	45	150	120	110	85
3-6	150	150	85	60	45	150	75	45	150	85	85	75

All flanged PP and PVDF valves are located on the previous page.

Size (in.)	PP/EPDM Butt fus. Part #	Price $
1/2	1620-005	$69.00
3/4	1620-007	$88.00
1	1620-010	$105.00
1 1/4	1620-012	$151.00
1 1/2	1620-015	$174.00
2	1620-020	$235.00
2 1/2	1620-025	$478.00
3	1620-030	$621.00
4	1620-040	$1035.00
-	-	-

Size (in.)	PP/EPDM thr. Part #	Price $
1/2	1619-005	$69.00
3/4	1619-007	$88.00
1	1619-010	$105.00
1 1/4	1619-012	$151.00
1 1/2	1619-015	$174.00
2	1619-020	$235.00
2 1/2	1619-025	$478.00
3	1619-030	$621.00
4	1619-040	$1035.00
-	-	-

Size (in.)	PP/EPDM Din Soc. Part #	Price $
1/2	1638-005	$69.00
3/4	1638-007	$88.00
1	1638-010	$105.00
1 1/4	1638-012	$151.00
1 1/2	1638-015	$174.00
2	1638-020	$235.00
2 1/2	1638-025	$478.00
3	1638-030	$621.00
4	1638-040	$1035.00
-	-	-

Size (in.)	PP/EPDM IPS Soc. Part #	Price $
1/2	1618-005	$69.00
3/4	1618-007	$88.00
1	1618-010	$105.00
1 1/4	1618-012	$151.00
1 1/2	1618-015	$174.00
2	1618-020	$235.00
2 1/2	1618-025	$478.00
3	1618-030	$621.00
4	1618-040	$1035.00
-	-	-

Size (in.)	PP/FKM◊ Butt fus. Part #	Price $
1/2	1624-005	$82.00
3/4	1624-007	$99.00
1	1624-010	$116.00
1 1/4	1624-012	$172.00
1 1/2	1624-015	$197.00
2	1624-020	$267.00
2 1/2	1624-025	$544.00
3	1624-030	$708.00
4	1624-040	$1176.00
-	-	-

Size (in.)	PP/FKM◊ thr. Part #	Price $
1/2	1623-005	$82.00
3/4	1623-007	$99.00
1	1623-010	$116.00
1 1/4	1623-012	$172.00
1 1/2	1623-015	$197.00
2	1623-020	$267.00
2 1/2	1623-025	$544.00
3	1623-030	$708.00
4	1623-040	$1176.00
-	-	-

Size (in.)	PP/FKM◊ Din Soc. Part #	Price $
1/2	1652-005	$82.00
3/4	1652-007	$99.00
1	1652-010	$116.00
1 1/4	1652-012	$172.00
1 1/2	1652-015	$197.00
2	1652-020	$267.00
2 1/2	1652-025	$544.00
3	1652-030	$708.00
4	1652-040	$1176.00
-	-	-

Size (in.)	PP/FKM◊ IPS Soc. Part #	Price $
1/2	1622-005	$82.00
3/4	1622-007	$99.00
1	1622-010	$116.00
1 1/4	1622-012	$172.00
1 1/2	1622-015	$197.00
2	1622-020	$267.00
2 1/2	1622-025	$544.00
3	1622-030	$708.00
4	1622-040	$1176.00
-	-	-

Size (in.)	PVDF/FKM◊ Butt fus. Part #	Price $
1/2	1628005	$213.00
3/4	1628007	$284.00
1	1628010	$413.00
1 1/4	1628012	$485.00
1 1/2	1628015	$714.00
2	1628020	$963.00
2 1/2	1628025	$1774.00
3	1628030	$2437.00
4	1628040	$5966.00
-	-	-

Size (in.)	PVDF/FKM◊ thr. Part #	Price $
1/2	1627005	$213.00
3/4	1627007	$284.00
1	1627010	$413.00
1 1/4	1627012	$485.00
1 1/2	1627015	$714.00
2	1627020	$963.00
2 1/2	1627025	$1774.00
3	1627030	$2437.00
4	1627040	$5966.00
-	-	-

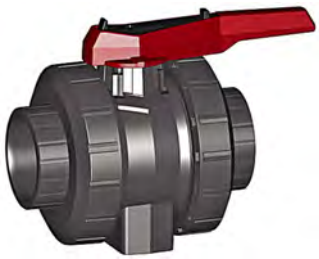
Size (in.)	PVDF/FKM◊ Din Soc. Part #	Price $
1/2	1666-005	$213.00
3/4	1666-007	$284.00
1	1666-010	$413.00
1 1/4	1666-012	$485.00
1 1/2	1666-015	$714.00
2	1666-020	$963.00
2 1/2	1666-025	$1774.00
3	1666-030	$2437.00
4	1666-040	$5966.00
-	-	-

Size (in.)	PVDF/FKM◊ IPS Soc. Part #	Price $
1/2	1626005	$213.00
3/4	1626007	$284.00
1	1626010	$413.00
1 1/4	1626012	$485.00
1 1/2	1626015	$714.00
2	1626020	$963.00
2 1/2	1626025	$1774.00
3	1626030	$2437.00
4	1626040	$5966.00
-	-	-

*1/2" thru 2" PVC and CPVC valves are supplied with both socket and threaded end connectors. 2 1/2" and above are supplied with either socket or threaded end connectors.
**6" venturied from 4" valve. 6" PP Flanged ball valve is Full port and of special design. ◊FKM = Fpm® type

GF True Union Ball Valves Type 546 - PVC







The ball valve type 546 is yet another innovative product developed by GF Piping Systems; it comprises extensive experience and the latest technology.

A broad spectrum of product features provides you with quality, flexibility, reliability, in addition to modularity. The ball valve type 546, successor of the ball valve type 346, is the fully developed result of 40 years GF Piping Systems experience in plastic pipeline Know-How.

The ball valve type 546 is part of a modular system that satisfies your requirements on operational reliability as well as those on eco-friendliness and cost-effectiveness.

Model:
- Designed for easy installation and removal
- Z-dimension, valve end and union nut are not compatible with Type 346 and Type 370
- Ball seals PTFE
- Integrated stainless steel mounting inserts

Options:
- Individual configuration of the valve
- Lockable hand lever with ratchet settings
- Handle extension
- Control ball for throttling applications available up to 2"
- Multifunctional module with integrated limit switches
- Pneumatic or electric actuators from GF

Pressure Rating:
- PN16 (up to 232 PSI at water 68°F); for PVC, CPVC and PVDF Cement and Fusion
- PN10 (up to 150 PSI at water 68°F); for PVC, CPVC and PVDF, Threaded NPT or Flanged
- PN10 (up to 150 PSI at water 68°F); for PP

Advantages:
- Integrated fixation system with mounted threaded inserts
- Biggest range of products (via the configurator several executions can be generated)
- Ergonomic handle (optional lockable) with integrated tool for dismounting the union bushing
- For the manual - and the actuated valve with many options - from electrical position feedback, the lockable handle to the pipe clip

Operating Torque

Size (in.)	Torque (in.-lbs.)
3/8	18
1/2	18
3/4	28
1	35
1 1/4	48
1 1/2	65
2	88
2 1/2	125
3	205
4	354

PVC / EPDM / 3/8" to 2"

Size (in.)	PN (bar)	SOCKET and THREADED		Price $
		Mfg Part #	ALSCO Part #	
3/8	16 / 10	161 546 341	2644-003	32.16
1/2	16 / 10	161 546 342	2644-005	33.12
3/4	16 / 10	161 546 343	2644-007	39.36
1	16 / 10	161 546 344	2644-010	47.52
1 1/4	16 / 10	161 546 345	2644-012	59.52
1 1/2	16 / 10	161 546 346	2644-015	76.32
2	16 / 10	161 546 347	2644-020	96.48

PVC / EPDM / 2 1/2" to 4"

Size (in.)	PN (bar)	SOCKET		Price $	THREADED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2 1/2	16 / 10	161 546 348	2644-025	231.36	161 546 648	2644-025-T	312.00
3	16 / 10	161 546 349	2644-030	276.96	161 546 649	2644-030-T	383.52
4	16 / 10	161 546 350	2644-040	365.28	161 546 650	2644-040-T	456.48

NOTE: Threaded valve ends are only enclosed for 3/8" to 2"

PVC / FPM / 3/8" to 2"

Size (in.)	PN (bar)	SOCKET and THREADED		Price $
		Mfg Part #	ALSCO Part #	
3/8	16 / 10	161 546 351	2645-003	39.36
1/2	16 / 10	161 546 352	2645-005	39.84
3/4	16 / 10	161 546 353	2645-007	46.56
1	16 / 10	161 546 354	2645-010	58.08
1 1/4	16 / 10	161 546 355	2645-012	71.52
1 1/2	16 / 10	161 546 356	2645-015	90.24
2	16 / 10	161 546 357	2645-020	120.96

PVC / FPM / 2 1/2" to 4"

Size (in.)	PN (bar)	SOCKET		Price $	THREADED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2 1/2	16 / 10	161 546 358	2645-025	275.04	161 546 658	2645-025-T	367.20
3	16 / 10	161 546 359	2645-030	334.56	161 546 659	2645-030-T	449.28
4	16 / 10	161 546 360	2645-040	444.96	161 546 660	2645-040-T	529.92

NOTE: Threaded valve ends are only enclosed for 3/8" to 2"

PVC / EPDM

Size (in.)	PN (bar)	FLANGED	Price $
		ALSCO Part #	
1/2	10	161 546 582	83.52
3/4	10	161 546 583	89.76
1	10	161 546 584	99.84
1 1/4	10	161 546 585	126.24
1 1/2	10	161 546 586	135.36
2	10	161 546 587	145.92
2 1/2	10	161 546 168	311.04
3	10	161 546 169	365.76
4	10	161 546 170	479.04

PVC / FPM

Size (in.)	PN (bar)	FLANGED	Price $
		ALSCO Part #	
1/2	10	161 546 592	89.28
3/4	10	161 546 593	100.80
1	10	161 546 594	120.48
1 1/4	10	161 546 595	142.08
1 1/2	10	161 546 596	155.52
2	10	161 546 597	170.88
2 1/2	10	161 546 178	353.28
3	10	161 546 179	423.84
4	10	161 546 180	560.64

GF True Union Ball Valves Type 546 - CPVC



CPVC / EPDM / 3/8" to 2"

Size (in.)	PN (bar)	SOCKET and THREADED		Price $
		Mfg Part #	ALSCO Part #	
3/8	16 / 10	163 546 341	2646-003	53.28
1/2	16 / 10	163 546 342	2646-005	56.16
3/4	16 / 10	163 546 343	2646-007	63.36
1	16 / 10	163 546 344	2646-010	77.28
1 1/4	16 / 10	163 546 345	2646-012	98.40
1 1/2	16 / 10	163 546 346	2646-015	117.60
2	16 / 10	163 546 347	2646-020	145.44

CPVC / EPDM / 2 1/2" to 4"

Size (in.)	PN (bar)	SOCKET		Price $
		Mfg Part #	ALSCO Part #	
2 1/2	16	163 546 348	2646-025	378.24
3	16	163 546 349	2646-030	462.24
4	16	163 546 350	2646-040	555.84

NOTE: Threaded valve ends are only enclosed for 3/8" to 2"



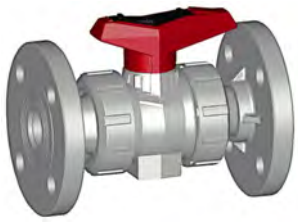
CPVC / FPM / 3/8" to 2"

Size (in.)	PN (bar)	SOCKET and THREADED		Price $
		Mfg Part #	ALSCO Part #	
3/8	16 / 10	163 546 351	2647-003	59.04
1/2	16 / 10	163 546 352	2647-005	60.00
3/4	16 / 10	163 546 353	2647-007	73.44
1	16 / 10	163 546 354	2647-010	92.16
1 1/4	16 / 10	163 546 355	2647-012	115.20
1 1/2	16 / 10	163 546 356	2647-015	137.76
2	16 / 10	163 546 357	2647-020	183.84

CPVC / FPM / 2 1/2" to 4"

Size (in.)	PN (bar)	SOCKET		Price $
		Mfg Part #	ALSCO Part #	
2 1/2	16	163 546 358	2647-025	429.12
3	16	163 546 359	2647-030	535.20
4	16	163 546 360	2647-040	644.16

NOTE: Threaded valve ends are only enclosed for 3/8" to 2"



CPVC / EPDM

Size (in.)	PN (bar)	FLANGED	Price $
		ALSCO Part #	
1/2	10	163 546 582	84.00
3/4	10	163 546 583	93.12
1	10	163 546 584	133.44
1 1/4	10	163 546 585	141.12
1 1/2	10	163 546 586	163.68
2	10	163 546 587	246.24
2 1/2	10	163 546 588	478.08
3	10	163 546 589	583.20
4	10	163 546 590	683.04

CPVC / FPM

Size (in.)	PN (bar)	FLANGED	Price $
		ALSCO Part #	
1/2	10	163 546 592	120.96
3/4	10	163 546 593	129.12
1	10	163 546 594	158.88
1 1/4	10	163 546 595	188.64
1 1/2	10	163 546 596	208.80
2	10	163 546 597	279.36
2 1/2	10	163 546 598	535.20
3	10	163 546 599	661.92
4	10	163 546 600	828.96

GF True Union Ball Valves Type 546 - Accessories



- Includes upper and lower extension adapter, does not include 3/4" pipe





PVC Handle Extension for Type 546

Size (in.)	ALSCO Part #	Price $
3/8 - 1/2	161 486 443	22.00
3/4 - 1	161 486 444	22.00
1 1/4 - 1 1/2	161 486 445	25.00
2	161 486 446	25.00



- 2 mounting screws included

Mounting Plate for Type 546

Size (in.)	Mfg Part #	ALSCO Part #	Price $
3/8 - 1	167 484 110	4904	4.00
1 1/4 - 2	167 484 111	4905	4.00





ALSO AVAILABLE
Multifunctional Module
with Inductive Limit Switches
PNP or NPN
5-30V DC 100mA

- Accessory to Ball Valve Type 546
- For operation with handle, multifunctional handle has to be ordered separately
- Including Plug 3P+E / Protection: IP65
- Including screws to mount the module and stainless steel coupling piece (V2A) for dimension DN65-100
- Multifunctional module acts as an intermediate element for actuators

Multifunctional Module with Mechanical Limit Switches Ag Ni 1-240V AC/DC 6A

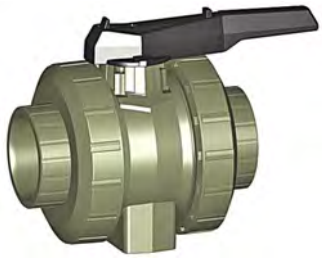
Size (in.)	Mfg Part #	ALSCO Part #	Price $
3/8 - 1/2	167 482 626	4910-AG	66.00
3/4 - 1	167 482 627	4911-AG	69.00
1 1/4 - 1 1/2	167 482 628	4912-AG	84.00
2	167 482 629	4913-AG	84.00
2 1/2 - 3	167 482 630	4914-AG	122.00
4	167 482 631	4915-AG	140.00

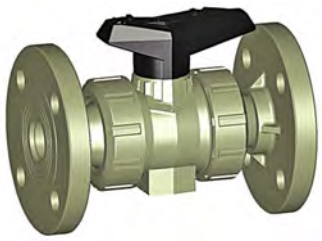
Multifunctional Module with Mechanical Limit Switches Au 4-30V DC 100mA

Size (in.)	Mfg Part #	ALSCO Part #	Price $
3/8 - 1/2	167 482 635	4910-AU	66.00
3/4 - 1	167 482 636	4911-AU	69.00
1 1/4 - 1 1/2	167 482 637	4912-AU	84.00
2	167 482 638	4913-AU	84.00
2 1/2 - 3	167 482 639	4914-AU	122.00
4	167 482 640	4915-AU	140.00

GF True Union Ball Valves Type 546 - PP







PP / EPDM

Size (in.)	PN (bar)	SOCKET FUSION		Price $	THREADED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	10	167 546 401	2648-003-SF	74.00	167 546 321	2648-003-T	103.00
1/2	10	167 546 402	2648-005-SF	79.00	167 546 322	2648-005-T	108.00
3/4	10	167 546 403	2648-007-SF	95.00	167 546 323	2648-007-T	126.00
1	10	167 546 404	2648-010-SF	130.00	167 546 324	2648-010-T	151.00
1 1/4	10	167 546 405	2648-012-SF	143.00	167 546 325	2648-012-T	194.00
1 1/2	10	167 546 406	2648-015-SF	191.00	167 546 326	2648-015-T	242.00
2	10	167 546 407	2648-020-SF	230.00	167 546 327	2648-020-T	294.00
2 1/2	10	167 546 408	2648-025-SF	556.00	N/A	N/A	N/A
3	10	167 546 409	2648-030-SF	693.00	N/A	N/A	N/A
4	10	167 546 410	2648-040-SF	835.00	N/A	N/A	N/A

PP / FPM

Size (in.)	PN (bar)	SOCKET FUSION		Price $	THREADED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	10	167 546 411	2649-003-SF	94.00	167 546 331	2649-003-T	121.00
1/2	10	167 546 412	2649-005-SF	96.00	167 546 332	2649-005-T	126.00
3/4	10	167 546 413	2649-007-SF	114.00	167 546 333	2649-007-T	142.00
1	10	167 546 414	2649-010-SF	139.00	167 546 334	2649-010-T	178.00
1 1/4	10	167 546 415	2649-012-SF	175.00	167 546 335	2649-012-T	221.00
1 1/2	10	167 546 416	2649-015-SF	230.00	167 546 336	2649-015-T	286.00
2	10	167 546 417	2649-020-SF	296.00	167 546 337	2649-020-T	355.00
2 1/2	10	167 546 418	2649-025-SF	719.00	N/A	N/A	N/A
3	10	167 546 419	2649-030-SF	900.00	N/A	N/A	N/A
4	10	167 546 420	2649-040-SF	1077.00	N/A	N/A	N/A

PP / EPDM

Size (in.)	PN (bar)	FLANGED	Price $
		ALSCO Part #	
1/2	10	167 546 582	140.21
3/4	10	167 546 583	150.52
1	10	167 546 584	185.57
1 1/4	10	167 546 585	253.61
1 1/2	10	167 546 586	282.47
2	10	167 546 587	353.61
2 1/2	10	167 546 588	696.91
3	10	167 546 589	879.38
4	10	167 546 590	1059.79

PP / FPM

Size (in.)	PN (bar)	FLANGED	Price $
		ALSCO Part #	
1/2	10	167 546 592	155.67
3/4	10	167 546 593	175.26
1	10	167 546 594	212.37
1 1/4	10	167 546 595	268.04
1 1/2	10	167 546 596	317.53
2	10	167 546 597	381.44
2 1/2	10	167 546 598	837.11
3	10	167 546 599	1046.39
4	10	167 546 600	1255.67

GF True Union Ball Valves Type 546 - PVDF







PVDF / FPM

Size (in.)	PN (bar)	SOCKET FUSION		Price $	THREADED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	16 / 10	175 546 411	2650-003-SF	239.00	175 546 331	2650-003-T	297.00
1/2	16 / 10	175 546 412	2650-005-SF	255.00	175 546 332	2650-005-T	314.00
3/4	16 / 10	175 546 413	2650-007-SF	314.00	175 546 333	2650-007-T	371.00
1	16 / 10	175 546 414	2650-010-SF	413.00	175 546 334	2650-010-T	480.00
1 1/4	16 / 10	175 546 415	2650-012-SF	527.00	175 546 335	2650-012-T	645.00
1 1/2	16 / 10	175 546 416	2650-015-SF	775.00	175 546 336	2650-015-T	844.00
2	16 / 10	175 546 417	2650-020-SF	1071.00	175 546 337	2650-020-T	1170.00
2 1/2	16 / 10	175 546 418	2650-025-SF	2948.00	N/A	N/A	N/A
3	16 / 10	175 546 419	2650-030-SF	3669.00	N/A	N/A	N/A
4	16 / 10	175 546 420	2650-040-SF	4404.00	N/A	N/A	N/A

PVDF / FPM

Size (in.)	PN (bar)	FLANGED	Price $
		ALSCO Part #	
1/2	10	175 546 592	314.00
3/4	10	175 546 593	411.00
1	10	175 546 594	478.00
1 1/4	10	175 546 595	597.00
1 1/2	10	175 546 596	827.00
2	10	175 546 597	1126.00

Ball Valves

Spears True Union Ball Valves



Features:
- Available in PVC and CPVC • EPDM or Fpm® seals • PTFE Seats
- 150 PSI, non-shock, max. operating at 73° F
- Valve permits radial installation or removal and allows flow in either direction
- Seat backing O-ring provide a self-adjusting seal between seat and floating ball
- Handle features double stop engagement
- Valve features good chemical and corrosion resistance

NOTE: 1/2" thru 2" valves are supplied with both socket and threaded end connectors.
*Bushed from 1/2" valve. **4" valve venturied to 6", socket only.

Options:
- 2" Square/T-Style Operator Nut
- Stem Extension Kit
- Complete Multi-Mount Actuation Mounting Kit

Operating Torque

Size (in.)	Torque (in.-lbs.)
1/2	20
3/4	30
1	40
1 1/4	60
1 1/2	80
2	90
2 1/2 - 3	300
4 - 6	400

PVC / EPDM

Size (in.)	Socket #	Threaded #	Price $
3/8*	0008-003-S	0008-003-T	47.56
1/2	0008-005		50.06
3/4	0008-007		59.21
1	0008-010		70.54
1 1/4	0008-012		97.58
1 1/2	0008-015		117.57
2	0008-020		155.10
2 1/2	0008-025-S	0008-025-T	283.25
3	0008-030-S	0008-030-T	373.45
4	0008-040-S	0008-040-T	630.95

PVC / Fpm®

Size (in.)	Socket #	Threaded #	Price $
3/8*	0009-003-S	0009-003-T	52.92
1/2	0009-005		55.70
3/4	0009-007		65.90
1	0009-010		78.58
1 1/4	0009-012		124.55
1 1/2	0009-015		130.48
2	0009-020		170.81
2 1/2	0009-025-S	0009-025-T	383.81
3	0009-030-S	0009-030-T	414.95
4	0009-040-S	0009-040-T	701.06

CPVC / EPDM

Size (in.)	Socket #	Threaded #	Price $
3/8*	2249-003-S	2249-003-T	62.81
1/2	2249-005		66.11
3/4	2249-007		83.28
1	2249-010		99.13
1 1/4	2249-012		157.60
1 1/2	2249-015		166.44
2	2249-020		222.62
2 1/2	2249-025-S	2249-025-T	474.14
3	2249-030-S	2249-030-T	554.39
4	2249-040-S	2249-040-T	1004.55

CPVC / Fpm®

Size (in.)	Socket #	Threaded #	Price $
3/8*	0012-003-S	0012-003-T	69.80
1/2	0012-005		73.48
3/4	0012-007		92.55
1	0012-010		110.15
1 1/4	0012-012		175.16
1 1/2	0012-015		184.94
2	0012-020		255.90
2 1/2	0012-025-S	0012-025-T	526.79
3	0012-030-S	0012-030-T	616.00
4	0012-040-S	0012-040-T	1116.17

PVC / EPDM

Size (in.)	Flanged #	Price $
1/2	0010-005	71.62
3/4	0010-007	90.74
1	0010-010	109.83
1 1/4	0010-012	128.91
1 1/2	0010-015	162.35
2	0010-020	258.55
2 1/2	0010-025	456.59
3	0010-030	501.33
4	0010-040	1008.01
6**	0010-060	1470.09

PVC / Fpm®

Size (in.)	Flanged #	Price $
1/2	0011-005	76.40
3/4	0011-007	98.68
1	0011-010	118.06
1 1/4	0011-012	143.24
1 1/2	0011-015	176.66
2	0011-020	274.20
2 1/2	0011-025	461.06
3	0011-030	622.44
4	0011-040	1168.46
6**	0011-060	1507.76

CPVC / EPDM

Size (in.)	Flanged #	Price $
1/2	2250-005	112.17
3/4	2250-007	137.51
1	2250-010	157.45
1 1/4	2250-012	235.22
1 1/2	2250-015	258.75
2	2250-020	360.05
2 1/2	2250-025	638.40
3	2250-030	933.62
4	2250-040	1637.41
6**	2250-060	2538.05

CPVC / Fpm®

Size (in.)	Flanged #	Price $
1/2	0013-005	114.59
3/4	0013-007	143.24
1	0013-010	167.12
1 1/4	0013-012	243.47
1 1/2	0013-015	267.33
2	0013-020	428.81
2 1/2	0013-025	766.28
3	0013-030	954.90
4	0013-040	1702.90
6**	0013-060	2626.01

Colonial Slo-Close True Union Ball Valves







VKey-1

Part #	Price $
VKey-1	2.31

Patented thermoplastic gear driven operating nut rotates 360° to achieve a 90° turn of the ball. The result is slow closure and the elimination of water hammer, while maintaining the positive shutoff and reliable service of a ball valve.

Features:
- Handle features a cross to accept standard sprinkler key wrench (or Lasco plastic key VKey-1) for buried service actuation.
- Replaces brass or bronze gate valves for irrigation uses.
- Thermoplastic construction eliminates process and atmospheric corrosion.
- True Union End Connectors allow for easy and quick removal from line.
- Slo-Close valves are for Open or Closed operation. Do not attempt to meter or throttle by leaving valve in partially open/closed position.
- End connections meet ASTM requirement: PVC D 2467, CPVC F-439. 1" - 2" valves are supplied with socket and threaded end connectors.
- Full port design - same I.D. as Sch 80 pipe minimizes turbulence at high flow rates.
- Floating ball design for positive seal.
- Dual Stem o-rings for extra protection against leaks.
- Pressure rating: Non-shock water at 73° F

A unique 3/4" cap and a 3/4" tee provides the makings of a specially designed PVC version of a sprinkler key for use with Slo-Close Valves. The kit includes tee and cap. By adding pipe (not included), you can create the perfect key length to reach each valve.

Colonial Slo-Close True Union Ball Valves

Size (in.)	Max PSI	Operating Torque (in.-lbs.)	End Connectors	PVC / EPDM Part #	Price $	PVC / FKM Part #	Price $	CPVC / EPDM Part #	Price $	CPVC / FKM Part #	Price $
1	235	60	S x S & T x T	V10101N-SC	99.04	V10102N-SC	107.94	V10103N-SC	137.52	V10104N-SC	149.32
1 1/4	235	110	S x S & T x T	V14101N-SC	125.98	V14102N-SC	136.24	V14103N-SC	193.84	V14104N-SC	215.06
1 1/2	235	110	S x S & T x T	V17101N-SC	125.98	V17102N-SC	136.24	V17103N-SC	193.84	V17104N-SC	215.06
2	235	180	S x S & T x T	V20101N-SC	194.85	V20102N-SC	223.97	V20103N-SC	256.71	V20104N-SC	288.34
2 1/2	150	N/A	S x S	V27101N-SC	409.36	N/A	N/A	N/A	N/A	N/A	N/A
2 1/2	150	N/A	T x T	V27111N-SC	409.36	N/A	N/A	N/A	N/A	N/A	N/A
3	150	600	S x S	V30101N-SC	373.27	V30102N-SC	510.93	V30103N-SC	472.37	V30104N-SC	771.09
3	150	600	T x T	V30111N-SC	373.27	V30112N-SC	510.93	V30113N-SC	472.37	V30114N-SC	771.09

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 100118

Ball Valves

Plast-O-Matic True Union Ball Valves, "MBV"



Other "MBV" Options

Series "MBVL" Lock Out/Tag Out Ball Valves Sizes 1/2" - 4"



Lock not included

Series "MBVM" Metering Manual Ball Valves Sizes 1/2" - 2"



Manual version of Plast-O-Matic's popular ball valve line; constructed with integral mounting lugs for easy addition of an actuator when needed. Features also include energized PTFE seats, Trunnion design, reinforced shaft and PTFE thrust washer. 2-way and 3-way designs. Socket, threaded, flanged ends, NPT, BSP or Metric; customizing available.

Design Advantages:

- Heavy-duty, extra-large diameter shaft is reinforced by additional resin and eliminates stem breaks.
- Double shaft O-rings.
- PTFE shaft bearing eliminates friction and wear.
- PTFE seats backed up with O-rings reduce the wear and tear of repeated cycling.
- Trunnion Design: Upper and lower supports retain ball under pressure. Trunnion design allows multi-directional flow; means that the valve is in no danger of being installed "backwards."
- Concentric machined and mirror-polished ball.
- Dual sliding seats use triple O-rings for balance and maximum leak protection.
- Smooth flow path eliminates pressure loss.
- True union ends for ease of piping and removal.

Features:

- Molded mounting brackets for excellent support and ease of piping installation.
- Pressure rated at 175 PSI (11,91 BAR). Kynar® PVDF ball valve rated to 232 PSI.
- Plast-O-Matic True Blue Ball Valves sizes 1/2", 3/4", 1", 1 1/4", 1 1/2" and 2" are 100% molded, machined & assembled in USA. Some materials on 3" and 4" valves are imported, however, all machining & assembly is done in USA.
- 100 percent pressure tested.
- Available in Geon® PVC, Corzan® CPVC, Natural (virgin, unpigmented) Polypropylene, and Kynar® PVDF. Available seal materials are EPDM and FKM. Handle is molded ABS. Other materials available.

4

PVC / EPDM

Size (in.)	Soc. / Thr. #	Price $	Soc. Fus. #	Price $
1/2	4364-005	79.00	4364-005-SF	81.00
3/4	4364-007	86.00	4364-007-SF	99.00
1	4364-010	105.00	4364-010-SF	117.00
1 1/4	4364-012	135.00	4364-012-SF	144.00
1 1/2	4364-015	163.00	4364-015-SF	175.00
2	4364-020	192.00	4364-020-SF	203.00

Size (in.)	Threaded #	Price $	Soc. Fus. #	Price $
3	4364-030	501.00	4364-030-SF	532.00
4	4364-040	733.00	N/A	N/A

PVC / FKM

Size (in.)	Soc. / Thr. #	Price $	Soc. Fus. #	Price $
1/2	4360-005	80.00	4360-005-SF	82.00
3/4	4360-007	88.00	4360-007-SF	101.00
1	4360-010	107.00	4360-010-SF	119.00
1 1/4	4360-012	138.00	4360-012-SF	148.00
1 1/2	4360-015	167.00	4360-015-SF	181.00
2	4360-020	197.00	4360-020-SF	209.00

Size (in.)	Threaded #	Price $	Soc. Fus. #	Price $
3	4360-030	510.00	4360-030-SF	541.00
4	4360-040	744.00	N/A	N/A

Dual end connectors (socket & threaded) are provided on all 2-way "PVC" manual ball valves 1/2" through 2" only.

Operating Torque

Size (in.)	Torque (in.-lbs.)
1/2	25
3/4	35
1	45
1 1/4	70
1 1/2	70
2	70
3	N/A
4	N/A

CPVC / EPDM

Size (in.)	Socket #	Price $	Threaded #	Price $	Soc. Fus. #	Price $
1/2	4365-005-S	102.00	4365-005-T	102.00	4365-005-SF	122.00
3/4	4365-007-S	114.00	4365-007-T	114.00	4365-007-SF	135.00
1	4365-010-S	150.00	4365-010-T	150.00	4365-010-SF	171.00
1 1/4	4365-012-S	205.00	4365-012-T	205.00	4365-012-SF	226.00
1 1/2	4365-015-S	255.00	4365-015-T	255.00	4365-015-SF	273.00
2	4365-020-S	315.00	4365-020-T	315.00	4365-020-SF	316.00
3	N/A	N/A	4365-030-T	818.00	4365-030-SF	841.00
4	N/A	N/A	4365-040-T	1084.00	N/A	N/A

CPVC / FKM

Size (in.)	Socket #	Price $	Threaded #	Price $	Soc. Fus. #	Price $
1/2	4361-005-S	103.00	4361-005-T	103.00	4361-005-SF	123.00
3/4	4361-007-S	116.00	4361-007-T	116.00	4361-007-SF	137.00
1	4361-010-S	154.00	4361-010-T	154.00	4361-010-SF	173.00
1 1/4	4361-012-S	211.00	4361-012-T	211.00	4361-012-SF	230.00
1 1/2	4361-015-S	260.00	4361-015-T	260.00	4361-015-SF	279.00
2	4361-020-S	321.00	4361-020-T	321.00	4361-020-SF	322.00
3	N/A	N/A	4361-030-T	827.00	4361-030-SF	850.00
4	N/A	N/A	4361-040-T	1095.00	N/A	N/A

Natural PP / EPDM

Size (in.)	Socket #	Price $	Threaded #	Price $	Soc. Fus. #	Price $
1/2	4366-005-S	86.00	4366-005-T	86.00	4366-005-SF	106.00
3/4	4366-007-S	109.00	4366-007-T	109.00	4366-007-SF	129.00
1	4366-010-S	140.00	4366-010-T	140.00	4366-010-SF	160.00
1 1/4	4366-012-S	184.00	4366-012-T	184.00	4366-012-SF	205.00
1 1/2	4366-015-S	209.00	4366-015-T	209.00	4366-015-SF	230.00
2	4366-020-S	277.00	4366-020-T	277.00	4366-020-SF	287.00
3	4366-030-SP	684.00	4366-030-T	697.00	4366-030-SF	708.00
4	4366-040-SP	903.00	4366-040-T	921.00	4366-040-SF	892.00

Natural PP / FKM

Size (in.)	Socket #	Price $	Threaded #	Price $	Soc. Fus. #	Price $
1/2	4362-005-S	87.00	4362-005-T	87.00	4362-005-SF	107.00
3/4	4362-007-S	111.00	4362-007-T	111.00	4362-007-SF	131.00
1	4362-010-S	144.00	4362-010-T	144.00	4362-010-SF	163.00
1 1/4	4362-012-S	190.00	4362-012-T	190.00	4362-012-SF	210.00
1 1/2	4362-015-S	214.00	4362-015-T	214.00	4362-015-SF	236.00
2	4362-020-S	283.00	4362-020-T	283.00	4362-020-SF	293.00
3	4362-030-SP	693.00	4362-030-T	707.00	4362-030-SF	718.00
4	4362-040-SP	915.00	4362-040-T	933.00	4362-040-SF	905.00

PVDF / EPDM

Size (in.)	Socket #	Price $	Threaded #	Price $	Soc. Fus. #	Price $
1/2	4367-005-S	243.00	4367-005-T	243.00	4367-005-SF	274.00
3/4	4367-007-S	270.00	4367-007-T	270.00	4367-007-SF	303.00
1	4367-010-S	379.00	4367-010-T	379.00	4367-010-SF	413.00
1 1/2	4367-015-S	691.00	4367-015-T	691.00	4367-015-SF	724.00
2	4367-020-S	966.00	4367-020-T	966.00	4367-020-SF	1000.00

PVDF / FKM

Size (in.)	Socket #	Price $	Threaded #	Price $	Soc. Fus. #	Price $
1/2	4363-005-S	244.00	4363-005-T	244.00	4363-005-SF	276.00
3/4	4363-007-S	272.00	4363-007-T	272.00	4363-007-SF	305.00
1	4363-010-S	382.00	4363-010-T	382.00	4363-010-SF	415.00
1 1/2	4363-015-S	696.00	4363-015-T	696.00	4363-015-SF	730.00
2	4363-020-S	973.00	4363-020-T	973.00	4363-020-SF	1006.00
3	4363-030-SP	2546.00	4363-030-T	2597.00	4363-030-SF	1607.00
4	4363-040-SP	5521.00	4363-040-T	5631.00	4363-040-SF	1988.00

Ball Valves

Plast-O-Matic Sanitary Connections



Plast-O-Matic is now providing factory installed sanitary connections on a number of high purity valves and piping products. Precision CNC machining and 100% testing ensures the clean, leak-free connections required with "tri-clamp" or "tri-clover" fittings.

Sanitary connections are offered on ball valves and available by custom order on:

- Pressure Regulators
- Relief / Backpressure Valves
- Diaphragm Valves
- Check Valves

Operating Torque

Size (in.)	Torque (in.-lbs.)
3/4 Mini	35
1 Maxi	45
1 Ladish	45
1 1/2	70
2	70

Plast-O-Matic Ball Valves with Sanitary Connections

PP / EPDM

Size (in.)	Part #	Price $
3/4 Mini	MBV050EPSC-PP	285.00
1 Maxi	MBV100EPSCM-PP	331.00
1 Ladish	MBV100EPSC-PP	377.00
1 1/2	MBV150EPSC-PP	421.00
2	MBV200EPSC-PP	563.00

PP / FKM

Size (in.)	Part #	Price $
3/4 Mini	MBV050VSC-PP	288.00
1 Maxi	MBV100VSCM-PP	334.00
1 Ladish	MBV100VSC-PP	381.00
1 1/2	MBV150VSC-PP	428.00
2	MBV200VSC-PP	568.00

PVDF / EPDM

Size (in.)	Part #	Price $
3/4 Mini	MBV050EPSC-PF	561.00
1 Maxi	MBV100EPSCM-PF	638.00
1 Ladish	MBV100EPSC-PF	767.00
1 1/2	MBV150EPSC-PF	893.00
2	MBV200EPSC-PF	1235.00

PVDF / FKM

Size (in.)	Part #	Price $
3/4 Mini	MBV050VSC-PF	564.00
1 Maxi	MBV100VSCM-PF	641.00
1 Ladish	MBV100VSC-PF	770.00
1 1/2	MBV150VSC-PF	898.00
2	MBV200VSC-PF	1241.00

4

Cepex® Industrial True Union Ball Valves



Features:

- **Available in PVC or CORZAN CPVC**
- **Sizes 1/2" to 2" rated at 240 PSI @ 70° F**
- **Sizes 2 1/2" to 4" rated at 150 PSI @ 70° F**
- **Socket or Threaded end connectors**
- **Fully serviceable • PTFE seats**
- **O-rings available in EPDM or Fpm®**
- **100% hydro tested prior to leaving factory**
- **Extremely smooth handle operation**
- **Color: PVC: Dark Grey CPVC: Light Grey**

Operating Torque

Size (in.)	Torque (in.-lbs.)
3/8	8.9
1/2	8.9
3/4	17.7
1	31.0
1 1/4	31.0
1 1/2	44.3
2	132.8
2 1/2	221.3
3	398.3
4	531.0

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/2	5247-005	24.22
3/4	5247-007	28.73
1	5247-010	34.88
1 1/4	5247-012	44.43
1 1/2	5247-015	58.08
2	5247-020	70.96
2 1/2	5247-025-S	133.24
2 1/2	5247-025-T	133.24
3	5247-030-S	161.45
3	5247-030-T	161.45
4	5247-040-S	338.17
4	5247-040-T	362.86

Size (in.)*	PVC/Fpm® soc./thr. Part #	Price $
1/2	5248-005	27.34
3/4	5248-007	30.77
1	5248-010	35.88
1 1/4	5248-012	52.11
1 1/2	5248-015	60.46
2	5248-020	76.08
2 1/2	5248-025-S	152.02
2 1/2	5248-025-T	177.00
3	5248-030-S	188.78
3	5248-030-T	203.23
4	5248-040-S	433.76
4	5248-040-T	389.65

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/2	5249-005	30.77
3/4	5249-007	36.76
1	5249-010	46.12
1 1/4	5249-012	68.34
1 1/2	5249-015	76.88
2	5249-020	103.41
2 1/2	5249-025-S	206.69
2 1/2	5249-025-T	220.36
3	5249-030-S	287.82
3	5249-030-T	304.04
4	5249-040-S	474.95
4	5249-040-T	512.41

Size (in.)*	CPVC/Fpm® soc./thr. Part #	Price $
1/2	5250-005	36.76
3/4	5250-007	44.43
1	5250-010	56.35
1 1/4	5250-012	81.93
1 1/2	5250-015	92.24
2	5250-020	124.69
2 1/2	5250-025-S	248.57
2 1/2	5250-025-T	263.91
3	5250-030-S	344.23
3	5250-030-T	363.83
4	5250-040-S	582.43
4	5250-040-T	614.00

***1/2" thru 2" valves are supplied with both socket and threaded end connectors. 2 1/2" and above are supplied with either socket or threaded end connectors. Corzan® CPVC is a registered trademark of Noveon. Flanged valves available.**

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Hayward TBH Series True Union Ball Valve



Size (in.)	Operating Torque (in.-lbs.)	Stem Width (in.)	Mounting Pattern
1/4	N/A	0.50	F05
3/8	N/A	0.50	F05
1/2	40	0.50	F05
3/4	50	0.50	F05
1	60	0.50	F05
1 1/4	N/A	0.50	F05, F07
1 1/2	70	0.50	F05, F07
2	80	0.50	F05, F07

A new generation of thermoplastic floating ball valves. The TBH Series features a low maintenance design with new patent pending System2™ Sealing Technology. Assisting users in protecting property and life, a standard integral lock-out feature secures onto the body of the valve. Actuator ready design with ISO 5211 pattern - on all sizes. Available in 1/4" - 2" / DN8 - DN50 in PVC and CPVC materials with either EPDM or FPM seals.

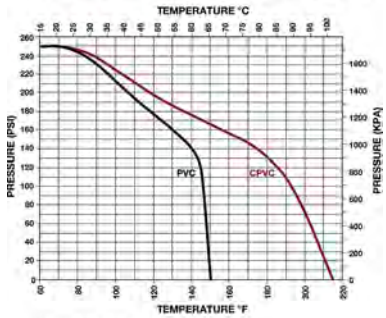
Features:

- System2™ Sealing Technology provides longer cycle life
- 250 PSI / 16 Bar, non-shock at 70°F/23°C full pressure rating
- Consistent operating torque with adjustment-free design
- Lockout/Tagout mechanism that secures directly to valve body for enhanced safety
- Ergonomic handle for improved grip and comfort
- ISO mounting flange simplifies actuation
- Permanent markings, eliminates labels
- Integral footpad for skid or panel mount
- FPM or EPDM seals
- Double O-Ring stem seals
- Reversible PTFE seats - standard
- Easy replacement for existing Hayward TB Series
- NSF/ANSI 61 and NSF/ANSI 372 Listed

Options:

- Pneumatic or Electric Actuators
- Stem Extensions
- Manual Limit Switch or Spring Return Handle

PRESSURE / TEMPERATURE CHART*



* Flanged valves rated to 150 PSI

4

PVC / FPM

Size (in.)	Socket		Threaded	
	Part #	Price $	Part #	Price $
1/4	TBH1025A0SV0000	33.72	TBH1025A0TV0000	33.72
3/8	TBH1037A0SV0000	33.72	TBH1037A0TV0000	33.72

PVC / FPM

Size (in.)	Socket and Threaded*		Socket		Flanged	
	Part #	Price $	Part #	Price $	Part #	Price $
1/2	TBH1050ASTV0000	33.72	TBH1050A0SV0000	33.05	TBH1050A0FV0000	50.59
3/4	TBH1075ASTV0000	39.82	TBH1075A0SV0000	39.00	TBH1075A0FV0000	62.69
1	TBH1100ASTV0000	48.36	TBH1100A0SV0000	45.94	TBH1100A0FV0000	77.66
1 1/4	TBH1125ASTV0000	64.13	TBH1125A0SV0000	60.91	TBH1125A0FV0000	94.46
1 1/2	TBH1150ASTV0000	78.72	TBH1150A0SV0000	74.81	TBH1150A0FV0000	106.92
2	TBH1200ASTV0000	103.10	TBH1200A0SV0000	97.97	TBH1200A0FV0000	168.02

PVC / EPDM

Size (in.)	Socket and Threaded*		Socket		Flanged	
	Part #	Price $	Part #	Price $	Part #	Price $
1/2	TBH1050ASTE0000	29.62	TBH1050A0SE0000	28.15	TBH1050A0FE0000	45.48
3/4	TBH1075ASTE0000	36.55	TBH1075A0SE0000	34.73	TBH1075A0FE0000	57.38
1	TBH1100ASTE0000	42.26	TBH1100A0SE0000	40.15	TBH1100A0FE0000	70.06
1 1/4	TBH1125ASTE0000	56.06	TBH1125A0SE0000	53.30	TBH1125A0FE0000	81.98
1 1/2	TBH1150ASTE0000	70.63	TBH1150A0SE0000	67.10	TBH1150A0FE0000	100.13
2	TBH1200ASTE0000	92.57	TBH1200A0SE0000	87.94	TBH1200A0FE0000	154.01

CPVC / FPM

Size (in.)	Socket and Threaded*		Socket		Flanged	
	Part #	Price $	Part #	Price $	Part #	Price $
1/2	TBH2050ASTV0000	47.02	TBH2050A0SV0000	44.66	TBH2050A0FV0000	66.24
3/4	TBH2075ASTV0000	58.42	TBH2075A0SV0000	55.51	TBH2075A0FV0000	78.50
1	TBH2100ASTV0000	71.45	TBH2100A0SV0000	67.90	TBH2100A0FV0000	104.06
1 1/4	TBH2125ASTV0000	98.83	TBH2125A0SV0000	93.91	TBH2125A0FV0000	124.27
1 1/2	TBH2150ASTV0000	118.34	TBH2150A0SV0000	112.44	TBH2150A0FV0000	145.25
2	TBH2200ASTV0000	162.46	TBH2200A0SV0000	154.34	TBH2200A0FV0000	273.91

CPVC / EPDM

Size (in.)	Socket and Threaded*		Socket		Flanged	
	Part #	Price $	Part #	Price $	Part #	Price $
1/2	TBH2050ASTE0000	44.14	TBH2050A0SE0000	41.95	TBH2050A0FE0000	61.46
3/4	TBH2075ASTE0000	55.58	TBH2075A0SE0000	52.82	TBH2075A0FE0000	73.22
1	TBH2100ASTE0000	67.42	TBH2100A0SE0000	64.08	TBH2100A0FE0000	96.46
1 1/4	TBH2125ASTE0000	93.89	TBH2125A0SE0000	89.21	TBH2125A0FE0000	108.89
1 1/2	TBH2150ASTE0000	111.84	TBH2150A0SE0000	106.25	TBH2150A0FE0000	134.40
2	TBH2200ASTE0000	154.25	TBH2200A0SE0000	146.54	TBH2200A0FE0000	241.97

* Supplied with socket and threaded end connectors.

Ball Valves

HAYWARD® True Union Ball Valves



True Union Ball Valve

1/4" to 6" - PVC, Corzan™, PPL

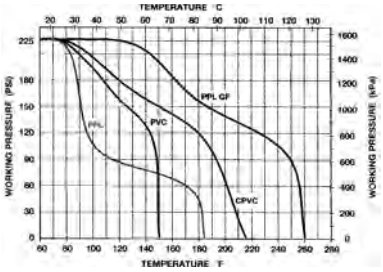
- Rugged, Heavy Wall Plastic Construction
- True Union Design
- Advanced Design Features
- Never a Problem with Corrosion
- Easily Automated

Features:

- 1/4" to 6" PVC, Corzan™ CPVC, PPL (PP available in threaded only)
- Full Port Design
- Reversible PTFE Seats
- Easy Maintenance
- FPM(Fpm® type) or EPDM Seals
- Easily Automated
- Double O-Ring Stem Seals
- Adjustable Seat Retainer

Options:

- Stem Extensions
- Lockouts
- Spring Return Handle
- Pneumatic Actuators
- Electric Actuators
- 2"- Square Operating Nuts



Cv Factors

Size	Factor	Size	Factor
1/4"	1.0	1-1/2"	90.0
3/8"	8.0	2"	140.0
1/2"	8.0	2-1/2"	330.0
3/4"	15.0	3"	480.0
1"	29.0	4"	600.0
1-1/4"	75.0	6"	800.0

Pressure Loss Calculation Formula

$$\Delta P = \left[\frac{Q}{Cv}\right]^2$$

ΔP = Pressure Drop
Q = Flow in GPM
Cv = Flow Coefficient

Operating Torque

Size (in.)	Torque (in.-lbs.)
1/4	N/A
3/8	N/A
1/2	40
3/4	50
1	60
1 1/4	N/A
1 1/2	70
2	80
2 1/2	140
3	140
4	170
6	170

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/4	0014-002-S	$35.23
1/4	0014-002-T	$35.23
3/8	0014-003-S	$35.23
3/8	0014-003-T	$35.23
1/2	0014-005	$30.96
3/4	0014-007	$38.21
1	0014-010	$44.18
1 1/4	0014-012	$58.61
1 1/2	0014-015	$73.82
2	0014-020	$96.72
2 1/2	0014-025-S	$214.51
2 1/2	0014-025-T	$214.51
3	0014-030-S	$222.05
3	0014-030-T	$222.05
4	0014-040-S	$390.74
4	0014-040-T	$390.74

Size (in.)*	PVC/FPM* soc./thr. Part #	Price $
1/4	0015-002-S	$35.23
1/4	0015-002-T	$35.23
3/8	0015-003-S	$35.23
3/8	0015-003-T	$35.23
1/2	0015-005	$35.23
3/4	0015-007	$41.62
1	0015-010	$50.54
1 1/4	0015-012	$67.01
1 1/2	0015-015	$82.30
2	0015-020	$107.74
2 1/2	0015-025-S	$253.13
2 1/2	0015-025-T	$253.13
3	0015-030-S	$261.62
3	0015-030-T	$261.62
4	0015-040-S	$441.62
4	0015-040-T	$441.62

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/4	0018-002-S	$46.13
1/4	0018-002-T	$46.13
3/8	0018-003-S	$46.13
3/8	0018-003-T	$46.13
1/2	0018-005	$46.13
3/4	0018-007	$58.10
1	0018-010	$70.46
1 1/4	0018-012	$98.11
1 1/2	0018-015	$116.88
2	0018-020	$161.18
2 1/2	0018-025-S	$448.39
2 1/2	0018-025-T	$448.39
3	0018-030-S	$462.07
3	0018-030-T	$462.07
4	0018-040-S	$792.65
4	0018-040-T	$792.65

Size (in.)*	CPVC/FPM* soc./thr. Part #	Price $
1/4	0019-002-S	$46.13
1/4	0019-002-T	$46.13
3/8	0019-003-S	$49.13
3/8	0019-003-T	$49.13
1/2	0019-005	$49.13
3/4	0019-007	$61.06
1	0019-010	$74.69
1 1/4	0019-012	$103.27
1 1/2	0019-015	$123.67
2	0019-020	$169.78
2 1/2	0019-025-S	$477.29
2 1/2	0019-025-T	$477.29
3	0019-030-S	$492.10
3	0019-030-T	$492.10
4	0019-040-S	$843.91
4	0019-040-T	$843.91

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	0016-005	$56.83
3/4	0016-007	$69.60
1	0016-010	$94.18
1 1/4	0016-012	$150.94
1 1/2	0016-015	$174.70
2	0016-020	$205.22
2 1/2	0016-025	$370.42
3	0016-030	$448.30
4	0016-040	$717.17
6**	0016-060	$1054.27

Size (in.)	PVC/FPM* flanged Part #	Price $
1/2	0017-005	$63.24
3/4	0017-007	$75.96
1	0017-010	$104.40
1 1/4	0017-012	$173.83
1 1/2	0017-015	$186.55
2	0017-020	$223.85
2 1/2	0017-025	$377.38
3	0017-030	$507.43
4	0017-040	$798.84
6**	0017-060	$1096.85

Size (in.)	CPVC/EPDM flanged Part #	Price $
1/2	0020-005	$76.82
3/4	0020-007	$88.78
1	0020-010	$129.67
1 1/4	0020-012	$200.45
1 1/2	0020-015	$234.53
2	0020-020	$322.37
2 1/2	0020-025	$484.42
3	0020-030	$697.37
4	0020-040	$1281.91
6**	0020-060	$1732.68

Size (in.)	CPVC/FPM* flanged Part #	Price $
1/2	0021-005	$82.78
3/4	0021-007	$95.16
1	0021-010	$139.87
1 1/4	0021-012	$228.72
1 1/2	0021-015	$253.44
2	0021-020	$364.94
2 1/2	0021-025	$567.36
3	0021-030	$812.71
4	0021-040	$1343.54
6**	0021-060	$1910.35

*1/2" thru 2" valves are supplied with both socket and threaded end connectors. For 1/4", 3/8" & 2 1/2" and above are supplied with either/or socket or threaded end connectors. Corzan® CPVC is a registered trademark of Noveon. Polypro available in threaded only. FPM = Fpm® type. **4" valve venturied to 6".

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Ball Valves

CHEMTROL TRU-BLOC True Union Ball Valves

FEATURES:

- Available in PVC and CPVC with PTFE ball seats in sizes 1/2" through 6".
- 150 PSI, non-shock, maximum operating pressure at 73°F.
- The True Union feature, an exclusive Chemtrol introduction over 20 years ago, has become the standard of the plastic valve industry.
- Double block design stops flow in either direction - upstream or downstream - when the alternate union is removed for servicing piping system.
- Heavy duty stub-acme thread for seal carrier retaining ring provides more reliability than others.
- Full-port design, minimum flow restriction.
- Distinctive orange handle not only indicates open or closed at a glance, but molded-in arrows dictate rotational direction for easy operation within 90° stops.



OPTIONS:

- Round safety handle available 1/2" - 1 1/2"
- Pneumatic and electric actuator available.
- Pad lock safety feature for 2 1/2" - 6".

NOTE: The valves on this page can be actuated.

NSF Approved

Operating Torque

Size (in.)	Torque (in.-lbs.)
1/2	55
3/4	55
1	75
1 1/4	90
1 1/2	90
2	225
3	360
4	540
6	540

4

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/2	0026-005	$46.09
3/4	0026-007	$54.33
1	0026-010	$64.90
1 1/4	0026-012	$102.78
1 1/2	0026-015	$102.78
2	0026-020	$134.77
-	-	-
-	-	-
3	0026-030-S	$327.53
3	0026-030-T	$327.53
4	0026-040-S	$554.58
4	0026-040-T	$554.58
6**	0026-060-S	$1311.40

Size (in.)*	PVC/Fpm® soc./thr. Part #	Price $
1/2	0027-005	$51.18
3/4	0027-007	$60.62
1	0027-010	$72.25
1 1/4	0027-012	$114.39
1 1/2	0027-015	$114.39
2	0027-020	$150.18
-	-	-
-	-	-
3	0027-030-S	$364.27
3	0027-030-T	$364.27
4	0027-040-S	$615.41
4	0027-040-T	$615.41
6**	0027-060-S	$1380.13

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/2	0030-005	$64.80
3/4	0030-007	$81.45
1	0030-010	$96.93
1 1/4	0030-012	$155.08
1 1/2	0030-015	$155.08
2	0030-020	$215.12
-	-	-
-	-	-
3	0030-030-S	$633.58
3	0030-030-T	$633.58
4	0030-040-S	$960.64
4	0030-040-T	$960.64
6**	0030-060-S	$2136.95

Size (in.)*	CPVC/Fpm® soc./thr. Part #	Price $
1/2	0031-005	$71.31
3/4	0031-007	$89.74
1	0031-010	$107.68
1 1/4	0031-012	$171.51
1 1/2	0031-015	$171.51
2	0031-020	$236.37
-	-	-
-	-	-
3	0031-030-S	$703.89
3	0031-030-T	$703.89
4	0031-040-S	$1067.29
4	0031-040-T	$1067.29
6**	0031-060-S	$2157.49

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	0028-005	$122.06
3/4	0028-007	$125.06
1	0028-010	$143.39
1 1/4	0028-012	$185.10
1 1/2	0028-015	$185.10
2	0028-020	$195.68
-	-	-
3	0028-030	$443.98
4	0028-040	$828.71
6**	0028-060	$1411.73

Size (in.)	PVC/Fpm® flanged Part #	Price $
1/2	0029-005	$127.98
3/4	0029-007	$136.67
1	0029-010	$159.98
1 1/4	0029-012	$206.35
1 1/2	0029-015	$206.35
2	0029-020	$219.07
-	-	-
3	0029-030	$493.75
4	0029-040	$851.62
6**	0029-060	$1438.59

Size (in.)	CPVC/EPDM flanged Part #	Price $
1/2	0032-005	$144.41
3/4	0032-007	$152.15
1	0032-010	$184.15
1 1/4	0032-012	$242.21
1 1/2	0032-015	$242.21
2	0032-020	$330.38
-	-	-
3	0032-030	$851.62
4	0032-040	$1729.31
6**	0032-060	$2777.64

Size (in.)	CPVC/Fpm® flanged Part #	Price $
1/2	0033-005	$158.95
3/4	0033-007	$167.56
1	0033-010	$204.37
1 1/4	0033-012	$267.49
1 1/2	0033-015	$267.49
2	0033-020	$365.22
-	-	-
3	0033-030	$972.49
4	0033-040	$1788.56
6**	0033-060	$2809.24

*1/2" thru 2" valves are supplied with both socket and threaded end connectors. 2 1/2" and above are supplied with either socket or threaded end connectors. **4" valve venturied to 6".

Size (in.)	Red PVDF/Fpm® soc./thr. Part #	Price $
1/2	0931-005-S	$257.10
1/2	0931-005-T	$257.10
3/4	0931-007-S	$366.10
3/4	0931-007-T	$366.10
1	0931-010-S	$532.00
1	0931-010-T	$532.00
-	-	-
1 1/2	0931-015-S	$922.00
1 1/2	0931-015-T	$922.00
2	0931-020-S	$1226.00
2	0931-020-T	$1226.00
3	0931-030	$3465.00
4	0931-040	$5122.00



FEATURES:

- Available in Red and Natural PVDF (Kynar)
- 150 psi @ 70°F, non shock, full port
- Unique external adjustment provision for seat wear.
- Double block design stops flow in either direction - upstream or downstream - when the alternate union is removed for servicing piping system.
- Heavy duty stub-acme thread for seal carrier retaining ring provides more reliability than other designs.
- For high purity applications, manufactured and assembled without hydrocarbon lubricants.
- Distinctive black handle not only shows open or closed at a glance but molded-in arrows dictate rotational direction for easy operation within 90° stops.

Size (in.)	Red PVDF/Fpm® flanged Part #	Price $
1/2	0932-005	$694.00
3/4	0932-007	$828.00
1	0932-010	$1166.00
-	-	-
1 1/2	0932-015	$2015.00
2	0932-020	$2562.00
-	-	-
3	0932-030	$6588.00
4	0932-040	$9722.00

True-Bloc
True Union
CHEMTROL

Size (in.)	Nat PVDF/Fpm® flanged Part #	Price $
1/2	0934-005	$727.00
3/4	0934-007	$865.00
1	0934-010	$1216.00
-	-	-
1 1/2	0934-015	$2108.00
2	0934-020	$2674.00
-	-	-
3	0934-030	$6935.00
4	0934-040	$10229.00

Size (in.)	Nat PVDF/Fpm® soc./thr. Part #	Price $
1/2	0933-005-S	$282.50
1/2	0933-005-T	$282.50
3/4	0933-007-S	$379.90
3/4	0933-007-T	$379.90
1	0933-010-S	$551.00
1	0933-010-T	$551.00
-	-	-
1 1/2	0933-015-S	$963.00
1 1/2	0933-015-T	$963.00
2	0933-020-S	$1323.00
2	0933-020-T	$1323.00
3	0933-030	$3647.00
4	0933-040	$5384.00



Ball Valves

CHEMTROL True Union Ball Valves

Features:

- Available in Black and Natural PP
- FLOW externally molded unto body to indicated fixed end containing a seat. Flow can be blocked while downstream piping is disconnected for repair.
- The true union feature, an exclusive Chemtrol introduction over 20 years ago, has become the standard of the plastic valve industry.
- Interference-fit handle, no handle screw to prevent removal.
- 150 psi @ 73° F, non-shock, full-port
- ADJ externally molded onto body to indicate open end use for assembly. External adjustment of upstream union can be compensate for wear of PTFE® seats, no production interruption for valve removal required.



Size (in.)	Blk PP/Fpm® soc./thr. Part #	Price $
1/2	0928-005-S	$134.50
1/2	0928-005-T	$134.50
3/4	0928-007-S	$157.70
3/4	0928-007-T	$157.70
1	0928-010-S	$199.10
1	0928-010-T	$199.10
1 1/4	0928-012-T	$336.20
1 1/2	0928-015-S	$336.20
1 1/2	0928-015-T	$336.20
2	0928-020-S	$448.50
2	0928-020-T	$448.50
3	0928-030-S	$1166.00
3	0928-030-T	$1166.00
4	0928-040-S	$1965.00
4	0928-040-T	$1978.00



Size (in.)	Nat PP/Fpm® soc. Part #	Price $
1/2	0930-005	$157.70
3/4	0930-007	$191.30
1	0930-010	$232.70
-	-	-
1 1/2	0930-015	$361.90
2	0930-020	$488.60
-	-	-
3	0930-030	$1154.00
4	0930-040	$1961.00

Size (in.)	Blk PP/Fpm® flanged Part #	Price $
1/2	0929-005	$325.70
3/4	0929-007	$347.80
1	0929-010	$378.70
-	-	-
1 1/2	0929-015	$610.00
2	0929-020	$788.00
-	-	-
3	0929-030	$2214.00
4	0929-040	$3766.00

Black Polypro valves come either socket or threaded. Natural Polypro valves come socket only.
1 1/4" Black - threaded only.

LOCKOUTS



Lockout Ring Kit

- Available for 1/2"- 2" SU & TB valves
- Corrosion resistant, light-weight PVC ring and handle
- Inexpensive
- Field mounted

Size (in.)	Lockout Ring Kit Part #	Price $
1/2	5300-005	11.28
3/4	5300-007	13.43
1	5300-010	15.04
1 1/4	5300-012	18.60
1 1/2	5300-015	18.60
2	5300-020	23.86





Lock not included

Lockout Cover

- 5 different sizes to cover valve handles from 1" to 13"
- "Polypro" plastic
- Fully dielectric
- Resistant to cracking & abrasion
- Resistant to temperature changes (-50° to 360°F)
- Red

Part #	Description	Price Each
5301-025-R	Fits handle dia. to 2 1/2"	$ 10.81
5301-050-R	Fits handle dia. 2 1/2" to 5"	18.08
5301-065-R	Fits handle dia. 5" to 6 1/2"	21.72
5301-100-R	Fits handle dia. 6 1/2" to 10"	27.17
5301-130-R	Fits handle dia. 10" to 13"	52.63

Locking Handle *



- Locking handle replaces standard handle.

Description	Part #	Price
* Locking Handle	VL25153	$25.87
** Locking Device	VL20153	$13.93
Note: Pad Locks not included in price.		

Locking Device **

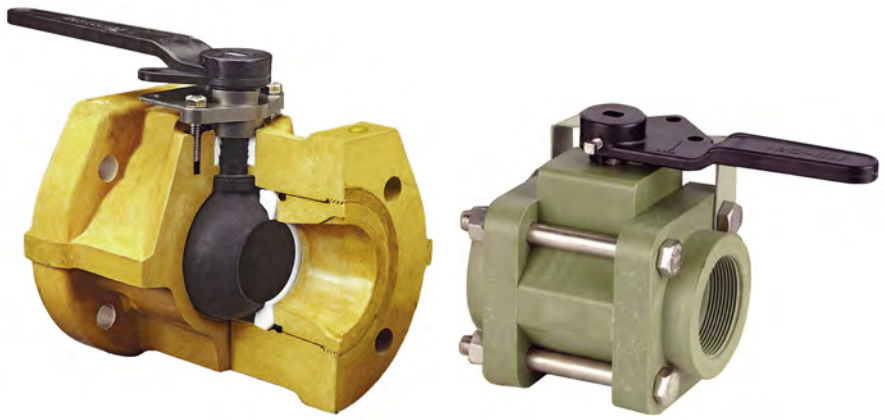


- Stainless Steel
- Locks in open or closed positions
- Installs under valve handle

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 100318

Ball Valves

Nil-Cor Ball Valves



Nil-Cor offers a choice of six ball valve models in a selection of corrosion resistant advanced composite materials and sizes to meet the requirements of the chemical process industry. All Nil-Cor ball valves feature lightweight, corrosion resistant bodies and a lock-out provision as standard equipment.

Nil-Cor ball valves are available in sizes from l/2" through 10", with lever or gear manual operators. Automated valves can be expertly factory assembled with pneumatic, electric or hydraulic actuators and accessories per customer specification.

310 Series
Vinyl Ester Resin / "Glass Fiber" Reinforced

This mixture of high strength, specially formulated, compression molded glass fiber and vinyl ester thermoset resin offers outstanding corrosion resistance and excellent retention of properties at high temperatures. The 310 series is our most poplar resin system, offering chemical resistance to a wide range of chemicals including HCL, brine, sea water and corrosive environments.

- Available sizes: 1" to 10"
- Operating temperature: -50°F to +250°F
- Pressure rating: 275 psig

300 Series
Vinyl Ester Resin / "Graphite Fiber" Reinforced

Graphite fibers provide high strength and chemical inertness, conductivity and surface lubricity to valve moving parts. The compression molded 300 material offers the same broad chemical resistance as the 310 material, but at higher temperatures. In addition, the 300 series resists certain chemicals that might attack glass fibers.

- Available sizes: 1" to 10"
- Operating temperature: -50°F to +250°F
- Pressure rating: 275 psig

610XP Series
Novolac Epoxy / "Glass Fiber" Reinforced

The 610XP provides chemical resistance to corrosive salt solutions, caustics, solvents and most acids. The compression molded novolac epoxy resin system optimizes both chemical resistance and mechanical capabilities of the 610XP. Rock solid composite construction provides a value which can handle a multitude of aggressive chemicals internally and externally.

- Available sizes: 1" to 10"
- Operating temperature: -50°F to +300°F
- Pressure rating: 275 psig

500XP Series
Novolac Epoxy / "Graphite Fiber" Reinforced

Made from a solid construction of graphite fibers combined with high strength corrosion resistant novolac epoxy resin. The 500XP provides outstanding resistance to solvents, organic acids, caustics, and salt solutions in higher temperature applications. The valve also provides conductivity for those applications where grounding throughout the piping system is required.

- Available sizes: 1" to 10"
- Operating temperature: -50°F to +300°F
- Pressure rating: 275 psig

410 Series
Polysulfone Resin / "Glass Fiber" Reinforced

The 410 has been designed and manufactured specifically for troublesome caustic and sodium hypochlorite solutions. The valve body is made of a solid construction of glass fiber and polysulfone resin. The resin is also approved by the FDA for food contact.

- Available sizes: 1" to 4"
- Operating temperature: -50°F to +300°F
- Pressure rating: 275 psig

410 Series Threaded
Polysulfone Resin / "Glass Fiber" Reinforced

Nil-Cor produces the world's only advanced composite three-piece NPT threaded-end ball valve. The valve has the same chemical resistance as the 410 but in smaller sizes and convenient threaded connections. The 410 series can also be repaired in line by simply removing 4 tie rods and sliding out the center valve section.

- Available sizes: 1/2" to 2"
- Operating temperature: -50°F to +250°F
- Pressure rating: 275 psig
- Other materials available

NOTE: All Nil-Cor Ball Valves are POA - Price On Application

Ball Valves

ASAHI Omni® Ball Valves



The Omni® Type-27 plastic manual valves are economical, one-piece valves that cannot be taken apart. Omni® plastic manual ball valves are molded body design quarter turn valves with hyperbolic flow characteristics, low pressure drops and reliable sealing. They offer relatively poor flow control and are typically used in on/off applications. They are excellent for use in clean fluid service applications with very little to no suspended solids. Omni® ball valves are well suited for a wide variety of fluid flow applications.

Features:
- 2-way blocking valve
- Compact, Low profile
- Unibody sealed carrier construction
- Short face to face dimension
- 2-Stem O-rings
- PTFE seats with elastomeric backing
- Ergonomic handle design
- Full vacuum service rating
- Full port opening
- Accepts molded ISO top flange for actuation mounting

PVC / EPDM

Size (in.)	Socket #	Price $	Threaded #	Price $
3/8	161070003	21.78	161071003	21.78
1/2	161070005	21.78	161071005	21.78
3/4	161070007	21.78	161071007	21.78
1	161070010	28.38	161071010	28.38
1 1/4	161070012	36.96	161071012	36.96
1 1/2	161070015	46.86	161071015	46.86
2	161070020	64.02	161071020	64.02

CPVC / EPDM

Size (in.)	Socket #	Price $	Threaded #	Price $
3/8	161072003	33.66	161073003	33.66
1/2	161072005	33.66	161073005	33.66
3/4	161072007	48.84	161073007	48.84
1	161072010	62.04	161073010	62.04
1 1/4	161072012	116.82	161073012	116.82
1 1/2	161072015	116.82	161073015	116.82
2	161072020	156.42	161073020	156.42

Pressure vs. Temperature

Nominal Size		PVC	CPVC			
(in.)	(mm)	30° F 120° F	30° F 120° F	121° F 140° F	141° F 175° F	176° F 195° F
3/8 - 2	13 - 50	150	150	120	90	60

PVC MIP Compact Ball Valves



MIP Compact Valves answer the need for an economically priced compact quarter turn ball valve for use in irrigation, water treatment, pool/spa, and commercial plumbing applications. Available in 1/2" - 4" sizes.

Features:
- Thermoplastic design eliminates process and atmospheric corrosion.
- Pressure rated up to 150 psi, non-shock water at 73° F
- 100% Leak Tested
- Both White and Gray have Sch 80 wall thickness.
- Polished PVC Ball insures smooth turning and longer service life.
- Bi-directional: Can be installed in either direction.
- Replacement handle kits available.
- Socket dimensions meet ASTM standard PVC: D-2467
- FPT x FPT version: Threads meet ASTM standard D-2464, ANSI B1.20.1
- PVC Material meets ASTM D-1784.
- NSF – 61 Approved for Potable Water Service. Product also Certified to NSF/ANSI 61, Annex G and is in compliance with California's Health and Safety Code Section 116875 and Vermont Act 193.

PVC / EPDM

Size (in.)	White		Gray		Price $
	Soc. #	Thr. #	Soc. #	Thr. #	
1/2	4335	4345	4335-G	4345-G	2.50
3/4	4336	4346	4336-G	4346-G	3.50
1	4337	4347	4337-G	4347-G	5.01
1 1/4	4338	N/A	4338-G	4348-G	7.70
1 1/2	4339	4349	4339-G	4349-G	10.00
2	4340	4350	4340-G	4350-G	14.56
2 1/2	4341	N/A	N/A	N/A	47.70
3	4342	4352	N/A	N/A	72.70
4	4343	4353	N/A	N/A	116.43

HAYWARD® Qic2™ Ball Valve



Features:
- Rugged, Compact Design
- Perfect for OEM Applications
- High in quality, low in cost
- Available in PVC (Grey) with EPDM seals and PTFE seats in sizes 1/2" - 2", NSF approved.
- 150 psi @ 70°F, non shock
- No Internal Parts to Replace
- Easy 1/4-Turn Operation
- Socket or Threaded Connections

Size (in.)	Part # PVC/EPDM	Price	Size (in.)	Part # PVC/EPDM	Price
1/2	0022-005-S	$18.79	1 1/4	0022-012-S	$50.35
1/2	0022-005-T	$18.79	1 1/4	0022-012-T	$50.35
3/4	0022-007-S	$24.14	1 1/2	0022-015-S	$50.35
3/4	0022-007-T	$24.14	1 1/2	0022-015-T	$50.35
1	0022-010-S	$28.54	2	0022-020-S	$65.66
1	0022-010-T	$28.54	2	0022-020-T	$65.66

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Banjo Micro Ball Valves

Banjo Polypropylene Micro Valves

Features:
- 90° rotating handle.
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Standard FKM seats and O-rings.
- Maximum operating pressure 300 P.S.I.





Poly Micro Valves - Threaded

Description	Max PSI	Thread Size	Opening Thru Ball	Mfg Part #	Price $
1/4" Female NPT Micro Valve	300	1/4"	3/8"	LV025V	12.49
3/8" Female NPT Micro Valve	300	3/8"	3/8"	LV038V	12.49
1/2" Female NPT Micro Valve	300	1/2"	15/32"	LV050V	13.31
1/2" Side Load Micro Valve	300	1/2"	1/2"	LV050SLV	16.32
1/4" Female x Male NPT Micro Valve	300	1/4"	3/8"	LV025MTV	12.49
3/8" Female x Male NPT Micro Valve	300	3/8"	3/8"	LV038MTV	12.49
3/8" Female x 1/2" Male NPT Micro Valve	300	3/8" x 1/2"	3/8"	LV038050MTV	13.31
1/2" Female x Male NPT Micro Valve	300	1/2"	15/32"	LV050MTV	13.31
1/2" Female x 1" Male NPT Micro Valve	300	1/2" x 1"	15/32"	LV050100MTV	13.31

Poly Micro Valves - Hose Barb

Description	Max PSI	Thread Size	Opening Thru Ball	Mfg Part #	Price $
1/4" Hose Barb Micro Valve	300	1/4"	3/8"	LVHB025V	12.49
3/8" Hose Barb Micro Valve	300	3/8"	3/8"	LVHB038V	12.49
1/2" Hose Barb Micro Valve	300	1/2"	15/32"	LVHB050V	13.31
3/4" Hose Barb Micro Valve	300	3/4"	15/32"	LVHB075V	13.31
3/8" Hose Barb x 1/2" Male NPT Micro Valve	300	1/2"	3/8"	LVHB038050MTV	13.31
3/4" Hose Barb x 3/4" Male NPT Micro Valve	300	3/4"	1/2"	LVHB075MTV	13.31
3/4" Hose Barb x 1" Male NPT Micro Valve	300	1"	15/32"	LVHB075100MTV	13.31

4

Banjo Polypropylene Push-Lock Micro Valves



The one and done solution that fits your need in any micro valve situation. Introducing the new Push-Lock Valve from Banjo. Made with corrosion resistant polypropylene material and FKM seals for a wide variety of chemical compatibilities. Used in a variety of chemical and non-chemical applications, the Push-Lock Valves are a popular choice among top industrial engineers and end users because the push lock valves provide a permanent leak proof connection for linking plastic tubing to soft metals and drastically reducing installation time.

Available in three popular sizes:
- 1/4" - LVPL025V
- 3/8" - LVPL038V
- 1/2" - LVPL050V

Handle turns 90°

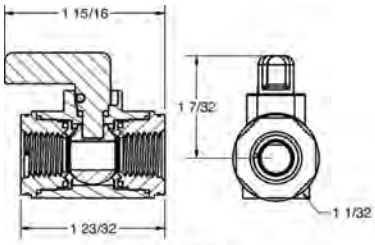
John Guest® Fitting



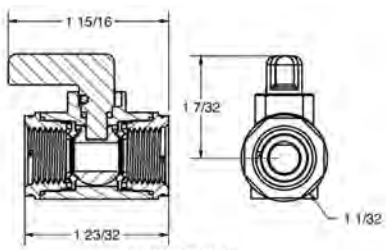
The brand "John Guest" is a registered trademark of John Guest International Limited.

Polypropylene Push-Lock Micro Valves

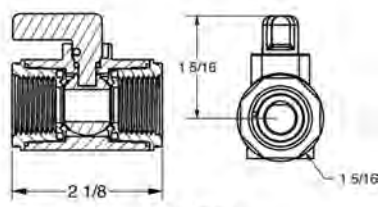
Description	Max PSI	Size	Opening Thru Ball	Mfg Part #	Price $
1/4" Female Micro Valve	300	1/4"	3/8"	LVPL025V	17.68
3/8" Female Micro Valve	300	3/8"	3/8"	LVPL038V	17.68
1/2" Female Micro Valve	300	1/2"	15/32"	LVPL050V	22.97



LVPL025V



LVPL038V



LVPL050V

Control Ball Valves

Hayward TBH-Z Series True Union Ball Valves



The TBH-Z Series (Z-Ball) true union ball valves have a drilled ball to vent gases for sodium hypochlorite service. Available in PVC or CPVC materials with FPM o-rings only and PTFE seats. Sizes are 1/2" to 2" with IPS or DIN/EN socket, threaded and flanged end connections. All valves are assembled with silicone free lubricant. Assisting users in protecting property and life, a standard integral lock-out feature secures onto the body of the valve. Actuator ready design with ISO 5211 pattern on all sizes. Fully pressure rated for 250 PSI / PN16 at 70°F/23°C non-shock across all sizes and materials.

Features:

- Full 250 psi / PN16 Rating, Non-Shock at 70°F / 23°C
- Integral ISO 5211 Mounting Pad for Easy Actuation
- Standard Lock-Out Plate, Lock-Out / Tag-Out for up to 4 Locks
- Permanent Laser Markings, Eliminates Labels
- System friendly "Molded-In" Footpad for Skid or Panel Mount
- UV Resistant Sure Grip Ergonomic Handle
- FPM or EPDM Seals
- Double O-Ring Stem Seals
- Reversible PTFE Seats - Standard
- Easy Replacement for Existing Hayward TB Series
- System2™ Sealing Technology Seat Carrier Design - Patent Pending

PVC / FPM

Size (in.)	Socket and Threaded*		Flanged	
	Part #	Price $	Part #	Price $
1/2	TBH1050ASTV0Z00	112.10	TBH1050A0FV0Z00	146.05
3/4	TBH1075ASTV0Z00	124.35	TBH1075A0FV0Z00	170.40
1	TBH1100ASTV0Z00	141.50	TBH1100A0FV0Z00	200.50
1 1/4	TBH1125ASTV0Z00	173.30	TBH1125A0FV0Z00	234.35
1 1/2	TBH1150ASTV0Z00	202.65	TBH1150A0FV0Z00	259.40
2	TBH1200ASTV0Z00	251.75	TBH1200A0FV0Z00	382.45

* 1/2" - 2" valves are supplied with socket and threaded end connectors.

CPVC / FPM

Size (in.)	Socket and Threaded*		Flanged	
	Part #	Price $	Part #	Price $
1/2	TBH2050ASTV0Z00	139.05	TBH2050A0FV0Z00	177.75
3/4	TBH2075ASTV0Z00	162.05	TBH2075A0FV0Z00	202.50
1	TBH2100ASTV0Z00	188.30	TBH2100A0FV0Z00	253.95
1 1/4	TBH2125ASTV0Z00	243.35	TBH2125A0FV0Z00	294.55
1 1/2	TBH2150ASTV0Z00	282.65	TBH2150A0FV0Z00	336.80
2	TBH2200ASTV0Z00	371.45	TBH2200A0FV0Z00	595.80

Hayward CVH Series Profile2™ True Union Ball Valves



The CVH Series Profile2™ with characterized ball for proportional flow configurations. Features a low maintenance design with its new patent pending System2™ Sealing Technology. Available in PVC and CPVC materials with FPM or EPDM seals. Provides two linear flow curves – one for fast opening, one for slow opening. Slow opening shipped standard. Fast open on request. Sizes are 1/2" to 2" with IPS or DIN/EN socket, threaded and flanged end connections. All valves are assembled with silicone free lubricant.

Features:

- Full 250 psi / PN16 Rating, Non-Shock at 70°F / 23°C
- Profile2™ Integral ISO 5211 Mounting Pad for Easy Actuation
- Standard Lock-Out Plate, Lock-Out / Tag-Out for up to 4 Locks
- System2™ Sealing Technology Seat Carrier Design - Patent Pending
- Permanent Laser Markings, Eliminates Labels
- System friendly "Molded-In" Footpad for Skid or Panel Mount
- UV Resistant Sure Grip Ergonomic Handle
- FPM or EPDM Seals
- Double O-Ring Stem Seals
- Reversible PTFE Seats - Standard
- Easy Replacement for Existing Hayward TBZ Series

PVC / FPM

Size (in.)	Socket and Threaded*		Flanged	
	Part #	Price $	Part #	Price $
1/2	CVH1050ASTV0A00	124.20	CVH1050A0FV0A00	137.10
3/4	CVH1075ASTV0A00	124.20	CVH1075A0FV0A00	141.70
1	CVH1100ASTV0A00	124.20	CVH1100A0FV0A00	146.60
2	CVH1200ASTV0A00	199.30	CVH1200A0FV0A00	248.30

PVC / EPDM

Size (in.)	Socket and Threaded*		Flanged	
	Part #	Price $	Part #	Price $
1/2	CVH1050ASTE0A00	119.30	CVH1050A0FE0A00	131.40
3/4	CVH1075ASTE0A00	119.30	CVH1075A0FE0A00	135.20
1	CVH1100ASTE0A00	119.30	CVH1100A0FE0A00	140.55
2	CVH1200ASTE0A00	184.65	CVH1200A0FE0A00	231.55

CPVC / FPM

Size (in.)	Socket and Threaded*		Flanged	
	Part #	Price $	Part #	Price $
1/2	CVH2050ASTV0A00	146.25	CVH2050A0FV0A00	160.95
3/4	CVH2075ASTV0A00	146.25	CVH2075A0FV0A00	161.60
1	CVH2100ASTV0A00	146.25	CVH2100A0FV0A00	171.15
2	CVH2200ASTV0A00	254.65	CVH2200A0FV0A00	339.70

CPVC / EPDM

Size (in.)	Socket and Threaded*		Flanged	
	Part #	Price $	Part #	Price $
1/2	CVH2050ASTE0A00	141.40	CVH2050A0FE0A00	154.65
3/4	CVH2075ASTE0A00	141.40	CVH2075A0FE0A00	154.90
1	CVH2100ASTE0A00	141.40	CVH2100A0FE0A00	163.55
2	CVH2200ASTE0A00	243.15	CVH2200A0FE0A00	310.10

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
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Control Ball Valves

Hayward CV Series Profile2™ Proportional Control Ball Valves

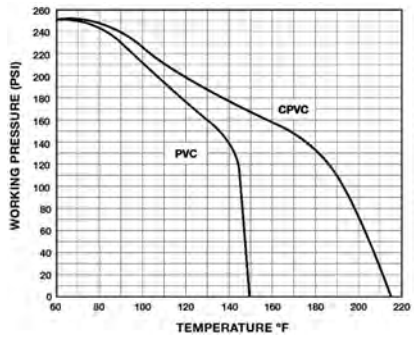


CV Series Profile2™ ball valves are available in PVC and CPVC with either FPM or EPDM o-rings. The seats are PTFE. Up to 2 in. sizes have socket & threaded end connections. The proportional control provides two linear flow curves, one for fast opening, and one for slow opening. All valves are assembled with silicone free lubricant.

Features:
- PVC and CPVC
- Precise Flow Control
- True Union Design
- Reversible Seats

Options:
- Lockouts Available
- 2 in. Square Operating Nut
- Stem Extensions
- Pneumatic and Electric Actuators
- Spring Return Handle

Operating Temperature / Pressure



Size (in.)	End Connection	PSI	Operating Torque (in.-lbs.)	PVC / EPDM		PVC / FPM		CPVC / EPDM		CPVC / FPM	
				ALSCO Part #	Price $	ALSCO Part #	Price $	ALSCO Part #	Price $	ALSCO Part #	Price $
3	Socket	235	140	CV1300SE	350.00	CV1300SV	386.80	CV2300SE	546.90	CV2300SV	581.45
3	Threaded	235	140	CV1300TE	350.00	CV1300TV	386.80	CV2300TE	546.90	CV2300TV	581.45
3	Flanged	235	140	CV1300FE	568.05	CV1300FV	603.35	CV2300FE	759.15	CV2300FV	795.50
4	Socket	235	170	CV1400SE	534.80	CV1400SV	582.00	CV2400SE	876.80	CV2400SV	921.05
4	Threaded	235	170	CV1400TE	534.80	CV1400TV	582.00	CV2400TE	876.80	CV2400TV	921.05
4	Flanged	235	170	CV1400FE	970.95	CV1400FV	1014.55	CV2400FE	1302.25	CV2400FV	1349.00
6	Flanged	150	170	CV1600FE	1259.20	CV1600FV	1304.40	CV2600FE	1586.80	CV2600FV	1632.70

GF Metering Ball Valves Type 523



The new design of this valve, which is based on the ball valve 546, facilitates the metering of the smallest quantities of media, and can be used for sampling. The newly developed metering ball valve is available in two dimensions - DN10 and DN15, and comes with a new scale and display.

Model:
- Micro-doser
- Excellent control characteristics
- Designed for easy installation and removal
- Ball seals PTFE
- Z-length, end connectors and union nuts not compatible to Type 323
- Angle of operation 180° with scale
- Integrated stainless steel mounting inserts

Features:
- Same installation length as the 546 ball valve
- Circular Scale
- Union type ends for easy installation and removal
- Special spherical shape of the ball

PVC / EPDM

Size (in.)	PSI	SOCKET and THREADED		Price $
		Mfg Part #	ALSCO Part #	
3/8	150	161 523 521	0935-003	108.00
1/2	150	161 523 522	0935-005	114.00

PVC / FPM

Size (in.)	PSI	SOCKET and THREADED		Price $
		Mfg Part #	ALSCO Part #	
3/8	150	161 523 531	0936-003	121.00
1/2	150	161 523 532	0936-005	123.00

Operating Torque

Size (in.)	Torque (in.-lbs.)
3/8	18
1/2	18

PP / EPDM

Size (in.)	PSI	FUSION SOCKET METRIC		Price $
		Mfg Part #	ALSCO Part #	
3/8	150	167 523 401	0937-003-SF	185.00
1/2	150	167 523 402	0937-005-SF	185.00

PP / FPM

Size (in.)	PSI	FUSION SOCKET METRIC		Price $
		Mfg Part #	ALSCO Part #	
3/8	150	167 523 411	0291-003-SF	201.00
1/2	150	167 523 412	0291-005-SF	201.00

PVDF / FPM

Size (in.)	PSI	FUSION SOCKET METRIC		Price $
		Mfg Part #	ALSCO Part #	
3/8	240	175 523 411	175 523 411	402.00
1/2	240	175 523 412	175 523 412	427.00

All prices subject to change without notice.

Control Ball Valves

Plast-O-Matic Series ZC Control Ball Valves



Series ZC - "Characterized" Control Ball Valves - Specially angled or custom-made ball openings provide precise flow control. For use as manual control valves, or with 4-20mA control using our Series EBVA actuator.

Standard:
- Based on the Plast-O-Matic "Engineered" True Blue Ball Valve with dual floating seats and Trunnion design
- 15°, 30°, 45°, 60°, 90° V-Balls standard
- 3/8", 2 1/2", 3" and 4" ball valve sizes are available
- Pressure rated at 175 PSI and Kynar® PVDF ball valve rated to 232 PSI
- Manual or Actuated
- Electronic control via the New Plast-O-Matic EBVA Actuator with 4-20mA or 0-10 DC digital positioning

Custom:
- Ball design can be customized to provide virtually any flow rate
- We use pre-tested combinations of holes and cuts to deliver precisely the type of flow your application requires
- Custom slots or angles for atypical flow rates
- Special valve materials available

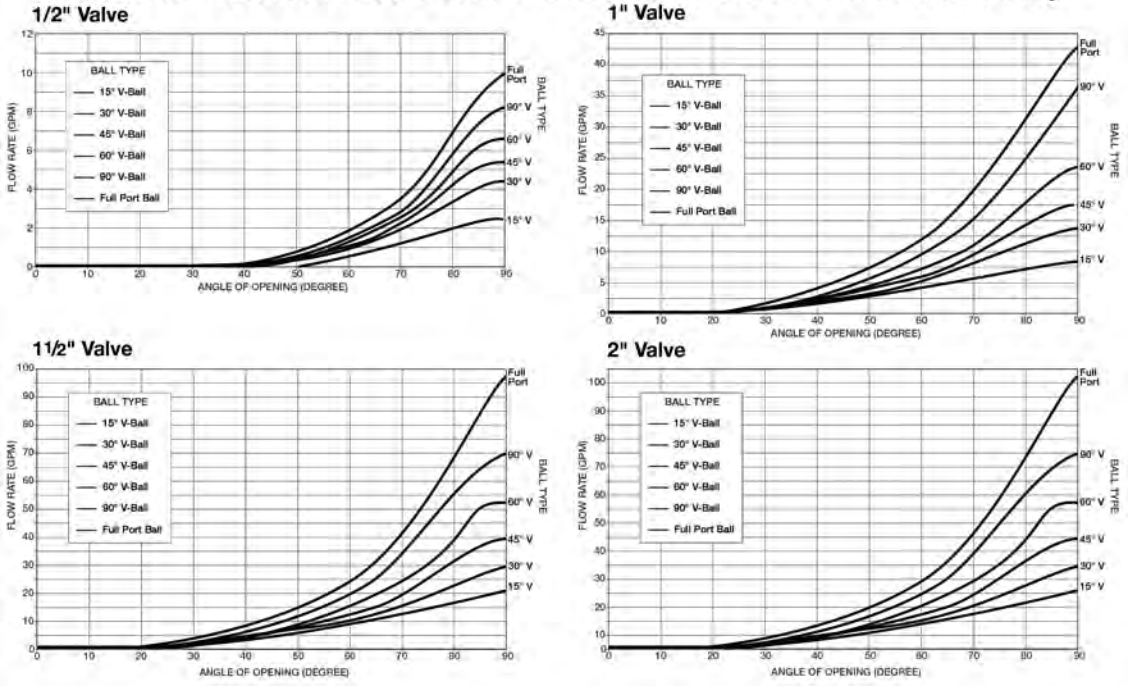
Standard V-Ball Configurations



Operating Torque

Size (in.)	Torque (in.-lbs.)
1/2	25
3/4	35
1	45
1 1/4	70
1 1/2	70
2	70

Series ZC – Characterized V-Ball Performance Curves at 1 PSI Pressure Drop



When ordering, add the V-Ball Configuration Suffix to the ALSCO Part #.
Example: 1", PVC, EPDM, 45°, Manual Series ZC Control Ball Valve is 4364-010-45

PVC / EPDM

Size (in.)	PSI	ALSCO Part # Skt. & Thd.	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4364-005	-15	-30	-45	-60	-90	177.00
3/4	175	4364-007	-15	-30	-45	-60	-90	200.00
1	175	4364-010	-15	-30	-45	-60	-90	228.00
1 1/4	175	4364-012	-15	-30	-45	-60	-90	266.00
1 1/2	175	4364-015	-15	-30	-45	-60	-90	307.00
2	175	4364-020	-15	-30	-45	-60	-90	359.00

PVC / FKM

Size (in.)	PSI	ALSCO Part # Skt. & Thd.	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4360-005	-15	-30	-45	-60	-90	171.00
3/4	175	4360-007	-15	-30	-45	-60	-90	202.00
1	175	4360-010	-15	-30	-45	-60	-90	230.00
1 1/4	175	4360-012	-15	-30	-45	-60	-90	269.00
1 1/2	175	4360-015	-15	-30	-45	-60	-90	311.00
2	175	4360-020	-15	-30	-45	-60	-90	364.00

CPVC / EPDM

Size (in.)	PSI	ALSCO Part # Socket	ALSCO Part # Threaded	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4365-005-S	4365-005-T	-15	-30	-45	-60	-90	196.00
3/4	175	4365-007-S	4365-007-T	-15	-30	-45	-60	-90	222.00
1	175	4365-010-S	4365-010-T	-15	-30	-45	-60	-90	265.00
1 1/4	175	4365-012-S	4365-012-T	-15	-30	-45	-60	-90	324.00
1 1/2	175	4365-015-S	4365-015-T	-15	-30	-45	-60	-90	383.00
2	175	4365-020-S	4365-020-T	-15	-30	-45	-60	-90	462.00

CPVC / FKM

Size (in.)	PSI	ALSCO Part # Socket	ALSCO Part # Threaded	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4361-005-S	4361-005-T	-15	-30	-45	-60	-90	197.00
3/4	175	4361-007-S	4361-007-T	-15	-30	-45	-60	-90	224.00
1	175	4361-010-S	4361-010-T	-15	-30	-45	-60	-90	268.00
1 1/4	175	4361-012-S	4361-012-T	-15	-30	-45	-60	-90	329.00
1 1/2	175	4361-015-S	4361-015-T	-15	-30	-45	-60	-90	388.00
2	175	4361-020-S	4361-020-T	-15	-30	-45	-60	-90	467.00

Series ZC Control Ball Valves are available in combinations with PP & PVDF Body Material and EPDM & FKM Seal Material
Call for Pricing 1-800-849-3030

Control Ball Valves

Plast-O-Matic Series ZC Control Ball Valves with EBVA Multi-Voltage Actuator with Fail-Safe and 4-20mA Digital Positioner Options





EBVA
Multi-Voltage Actuator

The EBVA features a rugged weatherproof and anti-corrosive polyamide housing and more features than the original EBV. A visual indicator shows whether the actuator is operating correctly, or had tripped out either by its electronic torque limiter, or has been left in 'manual' mode. Site operators are no longer left with the 'valve or actuator' question when an actuator does not respond to a signal.

The EBVA is quick and easy to install, with a double-D drive, allowing fast mounting to True-Blue valves. There is no need to remove the cover to connect the EBVA electrically, saving installation time. Using the external DIN plugs and external wiring diagrams supplied with the actuator, installation can be pre-wired.

Protection against valve jams is provided by an electronic torque limiter, which auto-relaxes the gearbox when activated, allowing the manual override to be selected to assist in clearing the jam. The effect of condensation is eliminated by an internal thermostatic anti-condensation heater that does not require a separate independent power supply. Standard function for the EBVA is power open, power close, stays put on power failure.

New to the EBVA are factory installed Fail-safe and modulating options. The modulating digital positioner offers auto-calibrating and self-resetting functions.

Standard V-Ball Configurations

15°



30°



45°



60°



90°



Standard Features:

- Multi-voltage with auto-voltage sensing, 12-24V AC or DC, 85-240V AC or DC
- LED status light to indicate operational status of actuator
- Electronic over-torque protection against valve jam
- Thermostatic anti-condensation heater
- Manual override for emergency hand operation
- Remote position indicator
- IP65 weatherproof anti-corrosive and UV protected polyamide housing
- Local visual position indicator
- Easy mounting with double-D drive
- All external electrical connections via DIN plugs
- CE marked
- ISO 9000 manufacturer
- Fail-safe and 4-20mA digital positioner options
- Thermally protected motor

The EPP offers precise 4-20mA control for air-actuated ball valves for customizable flow rates.



Electro-Pneumatic Positioner
Series EPP

Features:

- Uses force balance principle of operation and 4-20mA electronic signal for precise control of air actuated ball valves.
- Combine with Series ZC characterized or custom-profile ball valves for exact flow rate control.
- Compact, corrosion-resistant design.
- Complete calibration without removing cover.
- Large, clear position indicator.
- Repeatability <0.5% f.s. with hysteresis <0.6 f.s.

POA - Price On Application

When ordering, add the V-Ball Configuration Suffix to the ALSCO Part #.
Example: 1", PVC, EPDM, Threaded, 60°, EBVA Actuated Series ZC Control Ball Valve is 4388-010-T-60

PVC / EPDM

Size (in.)	PSI	ALSCO Part # Socket	ALSCO Part # Threaded	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4388-005-S	4388-005-T	-15	-30	-45	-60	-90	913.00
3/4	175	4388-007-S	4388-007-T	-15	-30	-45	-60	-90	944.00
1	175	4388-010-S	4388-010-T	-15	-30	-45	-60	-90	961.00
1 1/4	175	4388-012-S	4388-012-T	-15	-30	-45	-60	-90	1024.00
1 1/2	175	4388-015-S	4388-015-T	-15	-30	-45	-60	-90	1061.00
2	175	4388-020-S	4388-020-T	-15	-30	-45	-60	-90	1113.00

PVC / FKM

Size (in.)	PSI	ALSCO Part # Socket	ALSCO Part # Threaded	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4376-005-S	4376-005-T	-15	-30	-45	-60	-90	915.00
3/4	175	4376-007-S	4376-007-T	-15	-30	-45	-60	-90	946.00
1	175	4376-010-S	4376-010-T	-15	-30	-45	-60	-90	963.00
1 1/4	175	4376-012-S	4376-012-T	-15	-30	-45	-60	-90	1027.00
1 1/2	175	4376-015-S	4376-015-T	-15	-30	-45	-60	-90	1064.00
2	175	4376-020-S	4376-020-T	-15	-30	-45	-60	-90	1116.00

CPVC / EPDM

Size (in.)	PSI	ALSCO Part # Socket	ALSCO Part # Threaded	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4389-005-S	4389-005-T	-15	-30	-45	-60	-90	938.00
3/4	175	4389-007-S	4389-007-T	-15	-30	-45	-60	-90	964.00
1	175	4389-010-S	4389-010-T	-15	-30	-45	-60	-90	1007.00
1 1/4	175	4389-012-S	4389-012-T	-15	-30	-45	-60	-90	1058.00
1 1/2	175	4389-015-S	4389-015-T	-15	-30	-45	-60	-90	1126.00
2	175	4389-020-S	4389-020-T	-15	-30	-45	-60	-90	1211.00

CPVC / FKM

Size (in.)	PSI	ALSCO Part # Socket	ALSCO Part # Threaded	Add Configuration Suffix to Part # 15°	30°	45°	60°	90°	Price $
1/2	175	4377-005-S	4377-005-T	-15	-30	-45	-60	-90	940.00
3/4	175	4377-007-S	4377-007-T	-15	-30	-45	-60	-90	966.00
1	175	4377-010-S	4377-010-T	-15	-30	-45	-60	-90	1009.00
1 1/4	175	4377-012-S	4377-012-T	-15	-30	-45	-60	-90	1061.00
1 1/2	175	4377-015-S	4377-015-T	-15	-30	-45	-60	-90	1129.00
2	175	4377-020-S	4377-020-T	-15	-30	-45	-60	-90	1215.00

Series ZC Control Ball Valves are available in combinations with PP & PVDF Body Material and EPDM & FKM Seal Material
Call for Pricing 1-800-849-3030

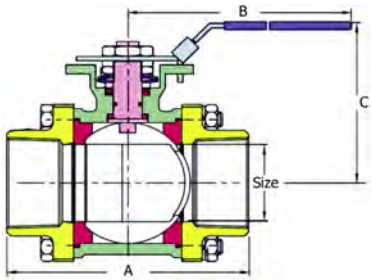
Control Ball Valves

Bonomi V-Series Stainless Steel Proportional Flow Control Valve



Features:

- ASTM A351-CF8M 316L Stainless Steel Body
- Carbon Graphite filled PTFE
- 50% Stainless Steel/50% PTFE Seats
- Class VI Shut-off
- Temperature Range -18o to 428oF
- 1000 PSI (1/2" to 2"), 800 PSI (2-1/2" to 4")
- Full Port 30, 60, or 90 Degree Flow Angles
- ISO 5211/DIN 3337 Direct Mounting
- Blow-Out Proof Stem, Anti-Static Design
- Sizes 1/2" thru 4", (Opt. 1/4"-3/8" FNPT Only)
- End Connections: FNPT or Socket Weld
- Thermal Relief Hole in the Ball



V-Series Valve Models



30° V-Ball		60° V-Ball		90° V-Ball	
FNPT	Soc. Weld	FNPT	Soc. Weld	FNPT	Soc. Weld
V300	**V310**	**V600**	**V610**	**V900**	**V910**
Seat Material - Carbon Graphite filled PTFE (-18°F to 428°F)					

Bonomi V-Series Direct Mount Stainless Steel Ball Valve with FNPT Connection

Size (in.)	Operating Torque (in.-lbs.)	Dimensions			Direct Mount Details			V300 30° V-Ball Part #	V600 60° V-Ball Part #	V900 90° V-Ball Part #	Price $
		A	B	C	Torque in/Lb	ISO 5211	Drive				
1/2	62.0	2.50	4.41	2.87	62.0	F03 & F05	9mm	V300-005	V600-005	V900-005	97.11
3/4	70.8	2.85	4.41	3.18	70.8	F03 & F05	9mm	V300-007	V600-007	V900-007	131.89
1	123.9	3.19	5.35	3.56	123.9	F03 & F05	9mm	V300-010	V600-010	V900-010	180.56
1 1/4	194.7	3.72	7.28	3.89	194.7	F03 & F05	9mm	V300-012	V600-012	V900-012	223.55
1 1/2	274.4	4.25	7.79	4.54	274.4	F05 & F07	14mm	V300-015	V600-015	V900-015	327.98
2	283.2	4.78	7.79	4.88	283.2	F05 & F07	14mm	V300-020	V600-020	V900-020	470.42
2 1/2	681.5	6.20	10.40	6.10	681.5	F07 & F10	17mm	V300-025	V600-025	V900-025	1149.84
3	743.5	7.48	10.40	8.21	743.5	F07 & F10	17mm	V300-030	V600-030	V900-030	1583.63
4	1354.2	8.86	12.80	8.53	1354.2	F07 & F10	17mm	V300-040	V600-040	V900-040	3119.01

Cv Versus Valve Opening Percentage

Size (in.)	V-Ball Angle	Class VI S/O	Low %	Control Zone								Full Open
		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1/2	30	0.00	0.04	0.24	0.47	0.77	1.19	1.84	2.46	3.42	4.63	5.57
	60	0.00	0.04	0.29	0.74	1.11	1.83	2.91	4.31	7.01	9.45	12.79
	90	0.00	0.06	0.47	0.85	1.27	2.11	3.22	4.77	8.31	11.59	14.72
3/4	30	0.00	0.07	0.29	0.63	1.02	1.56	2.44	3.26	4.52	6.12	7.31
	60	0.00	0.07	0.36	0.94	1.48	2.42	3.86	5.26	9.24	12.43	16.27
	90	0.00	0.08	0.61	1.10	1.71	2.69	4.27	6.25	10.85	15.30	19.39
1	30	0.00	0.09	0.45	1.25	2.07	3.56	5.32	7.69	10.51	12.85	15.49
	60	0.00	0.10	0.70	1.75	2.77	5.14	8.01	11.89	18.71	23.23	32.81
	90	0.00	0.11	1.00	2.77	5.10	7.74	12.20	17.32	24.47	26.81	43.88
1 1/4	30	0.00	0.05	0.47	1.35	2.49	4.13	6.11	8.81	11.75	14.86	17.36
	60	0.00	0.07	0.66	2.04	3.42	6.45	10.79	15.41	22.34	33.39	43.43
	90	0.00	0.08	0.80	2.91	5.52	10.23	17.27	19.51	34.93	51.75	65.82
1 1/2	30	0.00	0.07	0.66	1.87	3.40	5.66	8.36	12.14	16.17	20.45	23.88
	60	0.00	0.09	0.93	2.82	4.70	8.89	14.84	21.16	30.73	45.87	59.75
	90	0.00	0.10	1.07	4.00	7.45	14.08	23.78	26.77	48.05	71.17	90.50
2	30	0.00	0.09	1.19	3.80	7.53	12.27	17.85	26.45	36.46	48.10	55.84
	60	0.00	0.11	1.53	5.79	10.41	20.58	34.10	48.74	69.05	104.23	135.77
	90	0.00	0.17	1.90	7.28	13.59	25.37	42.30	55.55	87.04	129.77	167.36
2 1/2	30	0.00	0.09	1.16	4.44	7.91	13.40	20.05	30.44	41.92	69.78	76.95
	60	0.00	0.13	1.46	5.91	11.88	23.24	37.94	59.30	83.30	113.64	162.55
	90	0.00	0.18	1.86	7.28	16.45	31.15	53.54	77.87	118.29	177.33	239.42
3	30	0.00	0.13	1.21	4.16	9.49	15.97	26.78	38.92	53.30	69.78	85.92
	60	0.00	0.15	2.91	6.73	15.81	29.38	46.34	73.58	106.72	149.89	193.22
	90	0.00	0.20	4.13	8.66	21.10	41.09	69.31	105.90	161.04	237.24	359.22
4	30	0.00	0.16	1.75	7.84	18.61	35.21	58.61	87.88	127.45	158.53	196.34
	60	0.00	0.26	2.22	12.46	33.68	63.00	106.27	160.48	233.98	329.51	437.40
	90	0.00	0.35	4.36	19.70	50.31	91.82	157.45	240.50	365.15	546.65	830.90

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Control Ball Valves

Bonomi V-Series Characterized Ball Valve with Pneumatic Automation



Features:
- Constant Torque, Twin Rack and Pinion Pneumatic Actuators
- -4 to 185ºF Standard, Optional -40 to 185ºF and -4 to 320ºF
- Direct Mount Assemblies, Optional Stand-Off Extension ISO x ISO
- In Double Acting or Spring Return Configurations

Electro-Pneumatic (EP) Model

Standard Features:
- 4 to 20mA Input Signal
- Zero-Hysteresis
- Stainless Steel gauges
- Split-Control Position Indicator
- NEMA 4, 4x, 7 Case
- One 1/2" FNPT Conduit Connection
- Stainless Steel Bracket/Hardware

Optional Features:
- 4 to 20mA Feedback Signal
- Dual SPDT Mechanical Switches
- Double Acting
- Socket Weld

Pneumatic-Pneumatic (PP) Model

Standard Features:
- 3 to 15 PSI Input Signal
- Zero-Hysteresis
- Stainless Steel gauges
- Split-Control Position Indicator
- 1/4" FNPT Air Connections
- Stainless Steel Bracket/Hardware

Optional Features:
- 4 to 20mA Feedback Signal
- Dual SPDT Mechanical Switches
- Double Acting
- Socket Weld

Electro-Pneumatic (EP) Model
Spring Return - Threaded FNPT Connection

Size (in.)	30º V-Ball Part #	60º V-Ball Part #	90º V-Ball Part #	Price $
1/2	EPV300SR-005	EPV600SR-005	EPV900SR-005	1839.58
3/4	EPV300SR-007	EPV600SR-007	EPV900SR-007	1873.40
1	EPV300SR-010	EPV600SR-010	EPV900SR-010	2000.16
1 1/4	EPV300SR-012	EPV600SR-012	EPV900SR-012	2079.04
1 1/2	EPV300SR-015	EPV600SR-015	EPV900SR-015	2180.62
2	EPV300SR-020	EPV600SR-020	EPV900SR-020	2408.10
2 1/2	EPV300SR-025	EPV600SR-025	EPV900SR-025	3214.03
3	EPV300SR-030	EPV600SR-030	EPV900SR-030	3698.47
4	EPV300SR-040	EPV600SR-040	EPV900SR-040	5867.45

Pneumatic-Pneumatic (PP) Model
Spring Return - Threaded FNPT Connection

Size (in.)	30º V-Ball Part #	60º V-Ball Part #	90º V-Ball Part #	Price $
1/2	PPV300SR-005	PPV600SR-005	PPV900SR-005	1357.03
3/4	PPV300SR-007	PPV600SR-007	PPV900SR-007	1390.86
1	PPV300SR-010	PPV600SR-010	PPV900SR-010	1517.61
1 1/4	PPV300SR-012	PPV600SR-012	PPV900SR-012	1596.48
1 1/2	PPV300SR-015	PPV600SR-015	PPV900SR-015	1698.06
2	PPV300SR-020	PPV600SR-020	PPV900SR-020	1925.56
2 1/2	PPV300SR-025	PPV600SR-025	PPV900SR-025	2731.48
3	PPV300SR-030	PPV600SR-030	PPV900SR-030	3215.91
4	PPV300SR-040	PPV600SR-040	PPV900SR-040	5384.90

Bonomi V-Series Characterized Ball Valve with Electronic Automation



Features:
- Dual Analog Input Signal 0-10VDC or 4-20mA
- Multiple Supply Voltages: 12VDC, 24V AC/DC, 100-240VAC
- Dual DIN PG11 (Std.) or 1/2" FNPT (Opt.) Conduit Connection
- On-Board 0-10VDC Power Supply for Remote Panel OP
- Dual Auxiliary User Switch Contacts SPST
- Analog Position Feedback 0-10VDC or 4-20mA Output
- Manual Over-Ride and Position Indicator
- ISO5211/DIN3337 Direct Mount Standard
- Internal Condensation Compensation
- -4º to 140ºF Ambient Temperature
- +/- 3% Total Travel Accuracy
- IP67 NEMA 4x Enclosure
- UL/CE Certified

Optional Features:
- 12VDC
- 24V AC/DC
- Socket Weld

Electronic Positioner (EV) Model
100-240VAC - Threaded FNPT Connection

Size (in.)	30º V-Ball Part #	60º V-Ball Part #	90º V-Ball Part #	Price $
1/2	EV300-023-005	EV600-023-005	EV900-023-005	1410.33
3/4	EV300-023-007	EV600-023-007	EV900-023-007	1445.10
1	EV300-023-010	EV600-023-010	EV900-023-010	1493.77
1 1/4	EV300-023-012	EV600-023-012	EV900-023-012	1536.76
1 1/2	EV300-023-015	EV600-023-015	EV900-023-015	1746.98
2	EV300-023-020	EV600-023-020	EV900-023-020	1889.43
2 1/2	EV300-023-025	EV600-023-025	EV900-023-025	2780.43
3	EV300-023-030	EV600-023-030	EV900-023-030	3214.23
4	EV300-023-040	EV600-023-040	EV900-023-040	4857.36

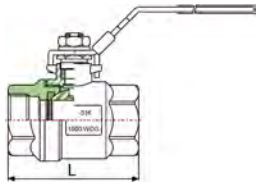
Stainless Steel Ball Valves

Full Port Stainless Steel Ball Valves



Materials:
- Body: ASTM A351 Gr.CF8M
- Cap: ASTM A351 Gr.CF8M
- Ball: ASTM A351 Gr.CF8M
- Stem: ASTM A276Gr.316
- Seat: PTFE + 15% G/F
- Gasket: PTFE
- Thrust Washer: PTFE
- Packing: PTFE
- Gland: SS304
- Handle: SS304
- Spring Washer: SS304
- Handle Nut: SS304
- Handle Sleeve Vinyl Grip
- Locking Plate: SS304

Features:
- Steam rating: 150 PSI WSP
- Blow-Out-Proof Stem Design
- Temperature Range: -50ºF to 450ºF
- Options: Locking Device
- Test Standard: API 598
- Vacuum Service to 29" Hg
- NACE MR-0175 Full Compliance
- Thread Type: ANSI B1.20.1(NPT), DIN259/DIN2999, ISO228, BSP, PT



SS Full Port Ball Valve

Size (in.)	L (in.)	Part #	Price $
1/4	2.28	7010-002	22.90
3/8	2.28	7010-003	22.46
1/2	2.43	7010-005	20.96
3/4	2.76	7010-007	34.38
1	3.20	7010-010	47.30
1 1/4	3.78	7010-012	66.62
1 1/2	4.43	7010-015	105.66
2	4.96	7010-020	157.80
2 1/2	6.63	7010-025	246.26
3	7.54	7010-030	526.06
4	8.52	7010-040	625.88

4

Banjo 316 Stainless Steel Ball Valves



Features:
- 316 Stainless Steel Ball & Stem
- Blow out proof stem
- Steam rating: 150psi WSP
- Threaded end connections
- Temperature Range: -50° to 450° F
- Seat: Reinforced PTFE
- 2pc full port design.
- Valves rated at 1,000 P.S.I.

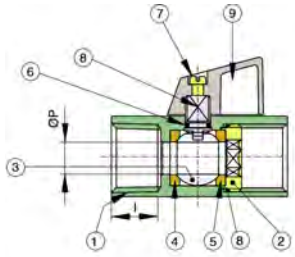
Banjo 316 SS Ball Valve

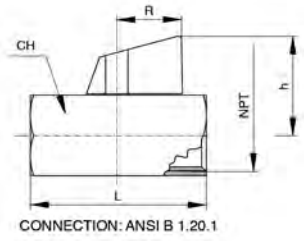
Size (in.)	Part #	Price $
1/4	VSS025	73.35
3/8	VSS038	73.35
1/2	VSS050	79.06
3/4	VSS075	103.36
1	VSS100	125.24
1 1/4	VSS125	154.83
1 1/2	VSS150	228.56
2	VSS200	273.18
3	VSS300	1037.00

Bonomi Series 380S and 380SM Mini Ball Valves



380S
Female / Female



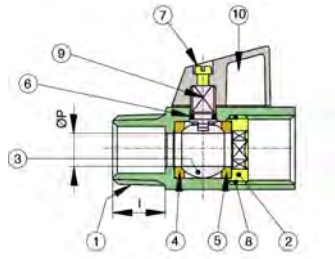


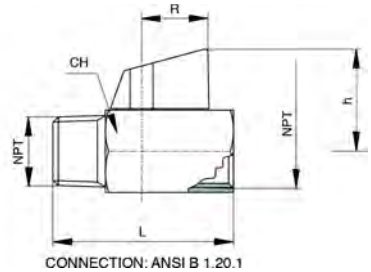
316 stainless steel ball valve - mini series, standard port from 1/4" to 1/2".

Features:
- Pressure rating 800 psi WOG
- Temperature -4° F to +350° F
- Stem O-ring FKM, seal P.T.F.E
- P.T.F.E. seats
- Stainless steel body, ball and stem
- Wedge lever handle



380SM
Male / Female





380S & 380SM

N Pos	Part Name	Material
1	Body	AISI 316
2	Retaining Bush	AISI 316
3	Ball	AISI 316
4	Ball Seat	P.T.F.E.
5	Ball Seat	P.T.F.E.
6	O-Ring	FKM
7	Screw	SS304
8	O-Ring	FKM
9	Stem	AISI 316
10	Handle	ABS

Bonomi Series 380S and 380SM Mini Ball Valve

Size (in.)	ØP	CH	l	h	L	R	Cv	PSI	380S Part #	380SM Part #	Price $
1/4	0.31	0.82	0.39	1.16	1.69	0.80	5.00	450	380S-002	380SM-002	25.50
3/8	0.31	0.82	0.40	1.16	1.69	0.80	3.13	450	380S-003	380SM-003	25.50
1/2	0.39	0.98	0.53	1.24	2.16	0.80	6.26	450	380S-005	380SM-005	25.50

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PP Bolted Ball Valves & Accessories

Banjo PP Bolted Ball Valves



Four Bolt Design

Six Bolt Design



Features for 4 and 6 Bolt Design:

- Precision Molded in Polypropylene - reinforced with fiberglass for additional strength
- Sizes 1/2" thru 4" with FKM (Fpm type) seals.
- Stainless Steel Bolts and nuts
- Self-aligning ball moves freely against the PTFE seats for smooth operation.
- The valve opens or closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.



w/"F" adapter
Long Handle



w/"F" adapter
Short Handle

4

Four Bolt Design

Pipe Size	Opening thru Ball	Max PSI	Description	Part #	Price $
1/2	3/4	150	Full Port	V050	$29.86
3/4	3/4	150	Full Port	V075	$29.86
1	3/4	150	Std. Port	V100	$29.86
1	1	150	Full Port	V100FP	$32.92
1 1/4	1	150	Std. Port	V125	$32.92
1 1/4	1 1/2	150	Full Port	V125FP	$42.32
1 1/2	1 1/2	150	Full Port	V150	$42.32
2	1 1/2	150	Std. Port	V200	$42.32

Six Bolt Design

Pipe Size	Opening thru Ball	Max PSI	Description	Part #	Price $
2	2	150	Full Port	V200FP	$59.60
3	2 1/2	100	Std. Port	V300	$95.94
3	3	100	Full Port	V300FP	$142.43
4	3 1/2	75	Std. Port	V400	$311.28

Six Bolt Design w/"F" Adapter

Pipe Size	Opening thru Ball	Max PSI	Description	Part #	Price $
2	2	150	Full Port	VFMT200FP	$69.30
2	2	150	Full Port	VFMT200FPSH	$69.30



Four Bolt Design - Full Port

Pipe Size	Opening thru Ball	Max PSI	Description	Part #	Price $
2	2	150	Full Port	VFMT204FP	$63.15
2	2	150	Full Port	V204FP	$56.50



Handle Risers

Part #	Description	Valve used	Price $
V10153138BL	1" x 1 3/8" Handle Offset	3/4"&1" 3way BL	$5.47
V10153138	1" x 1 3/8" Handle Offset	1"FP,1 1/4"SP,3/4"&1" SL	$5.47
V20153138BL	2" x 1 3/8" Handle Offset	1 1/4",1 1/2" 3way BL	$5.98
V20153138	2" x 1 3/8" Handle Offset	1 1/4"FP,1 1/2"SP,1 1/4",1 1/2"SL	$5.98
V25153138BL	2"FP x 1 3/8" Handle Offset	2" & 3" FP 3way BL	$5.99
V25153138	2"FP x 1 3/8" Handle Offset	2"FP & 2" 3way SL	$5.99





Locking Handle *



- Locking handle replaces standard handle.

Pad Locks not included in price.

Locking Device **



- Stainless Steel
- Locks in open or closed positions
- Installs under valve handle

Accessories

Part #	Description	Valve used	Price $
VL25153	*Locking Handle	2", 3", 4"	$24.50
VL20153	**Locking Device	1 1/4"FP,1 1/2",2"	$13.19
V25271	90° Mounting Bracket	1 1/2"FP, 2",3",4"	$14.83
V25270	Straight Mounting Bracket	1 1/2"FP, 2",3",4"	$12.66
V10270	Straight Mounting Bracket	1"FP, 1 1/4"SP	$7.59
V10271	90° Mounting Bracket	1"FP, 1 1/4"SP	$7.59
V25153SH	Short Handle	2"FP w/F adpt	$11.21

**Note: Padlock not included

PP Bolted Ball Valves / Nozzle Valves

Banjo ANSI Flange Valves





Features

- Stainless Steel Bolts
- 100% PTFE seals
- Glass filled PP
- 100 PSI Max.
- Compact design
- Lightweight
- FKM (Fpm type) Seals

Six Bolt Design - Full Port					
Pipe Size	Opening thru Ball	Max PSI	Description	Part #	Price $
2	2	100	Male Adpt x ANSI Flange	VSF200FPAF	132.17
2	2	100	Male NPT x ANSI Flange	VSMT200FPAF	158.61
2	ANSI Flange Gasket - EPDM			AF200G	5.73
2	ANSI Flange Gasket - FKM			AF200GV	55.95

4

Banjo Polypropylene Nozzle Valves, PP Bolted



Bolted Valve with Angle Hose End

Lightweight hose end valve for convenient transfer of liquids. Angled end flange with 8" long polypropylene fill spout.

Bolted Valve with Angle Hose End Full Port



Pipe Size	Opening thru Ball	Description	Part #	Price $
1 1/2	1 1/2	Full Port	VA150	$50.95
2 x 1 1/2	1 1/2	Std. Port	VA200/150	$50.95
2	1 1/2	Std. Port	VA200	$50.95

Pipe Size	Opening thru Ball	Description	Part #	Price $
2	2 1/16	Full Port	VA200FP	$76.23

Pipe Size	Description	Part #	Price $
2	2" Nozzle Pipe Only	V25165	$5.94
1 1/2"	1 1/2" Nozzle Pipe Only	V20166	$5.42

Single Union Poly Valve with Angle Hose End



Pipe Size	Opening thru Ball	Description	Part #	Price $
1	1	Full Port	UVA100FP	$30.49

Pipe Size	Description	Part #	Price $
1	1" Poly Nozzle Pipe	V10161	$11.94

Poly Nozzle Valve

Features

- Glass filled polypropylene
- Stainless steel handle, spring, and pin
- FKM (fpm type) rubber parts **only**.
- Resists corrosion
- Padlock capability
- 75 P.S.I. Maximum



Pipe Size	Part #	Price $
1	VN100	$54.36

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Ball Valves

Banjo 3-Way Poly Ball Valves, PP Bolted

Features

- Stainless Steel Bolts.
- Precision molded in Polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- FKM (fpm type) "O" ring stem seal.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Maximum operating pressure 100 P.S.I.



Bottom Load ... Directional flow either right or left. Valve can be turned off to stop flow.

Part #	Description	Pipe Size	Opening Thru Ball	Price Each
V075BL	3/4" 3-Way Bottom Load Poly Valve	3/4"	1"	$43.11
V100BL	1" 3-Way Bottom Load Poly Valve	1"	1"	$43.11
V125BL	1 1/4" 3-Way Bottom Load Poly Valve	1 1/4"	1 1/2"	$67.01
V150BL	1 1/2" 3-Way Bottom Load Poly Valve	1 1/2"	1 1/2"	$67.01
V200BL	2" 3-Way Bottom Load Poly Valve	2"	2"	$80.59



Side Load ... Directional flow either right or left. Valve cannot be turned off to stop flow.

Part #	Description	Pipe Size	Opening Thru Ball	Price Each
V075SL	3/4" 3-Way Side Load Poly Valve	3/4"	1"	$43.11
V100SL	1" 3-Way Side Load Poly Valve	1"	1"	$43.11
V125SL	1 1/4" 3-Way Side Load Poly Valve	1 1/4"	1 1/2"	$67.01
V150SL	1 1/2" 3-Way Side Load Poly Valve	1 1/2"	1 1/2"	$67.01
V200SL	2" 3-Way Side Load Poly Valve	2"	2"	$85.08

Banjo Single Union Polypropylene Ball Valves



SUV200FP

Features:

- Precision molded in glass reinforced polypropylene, for strength and chemical resistance.
- PTFE seats for smooth operation and proper sealing characteristics.
- EPDM O-rings to handle most fertilizers and many chemicals.
- Double O-rings in stem area for extra sealing protection.
- Interlocking body and end plate to allow easy thread connection when installing valves.
- Maximum operating pressure 100 P.S.I. at 70°F.



UV200FP

Features:

- Precision molded in glass reinforced polypropylene, for strength and chemical resistance.
- PTFE seats for smooth operation and proper sealing characteristics.
- Double O-rings in stem area for extra sealing protection.
- Interlocking body and end plate to allow easy thread connection when installing.
- Maximum operating pressure 100 P.S.I. at 70°F.

Single Union Spinweld Poly Valves

Pipe Size	Opening thru Ball	Max PSI	Description	Part #	Price $
1/2	3/4	100	Full Port	SUV050FP	$15.26
3/4	3/4	100	Full Port	SUV075FP	$15.26
1	1	100	Full Port	SUV100FP	$19.08
1 1/4	1 1/2	100	Full Port	SUV125FP	$39.30
1 1/2	1 1/2	100	Full Port	SUV150FP	$39.05
2	2	100	Full Port	SUV200FP	$41.30

Single Union Poly Valves

Pipe Size	Opening thru Ball	Max PSI	Description	Part #	Price $
1/2	1/2	150	Full Port	UV050FP	$15.26
3/4	3/4	150	Full Port	UV075FP	$15.26
1	1	150	Full Port	UV100FP	$19.08
1 1/4	1 1/4	150	Full Port	UV125FP	$32.75
1 1/2	1 1/2	150	Full Port	UV150FP	$32.53
2	2	150	Full Port	UV200FP	$41.30

Ball Valves

Banjo "Stubby Valve" Polypropylene Bolted Ball Valves

Features

- Stainless Steel Bolts
- Glass filled polypropylene
- Max. operating pressure 100 PSI @ 70°F. 75 PSI @ 150°F
- All PTFE seals
- Unique compact design
- Lightweight
- Multiple design options

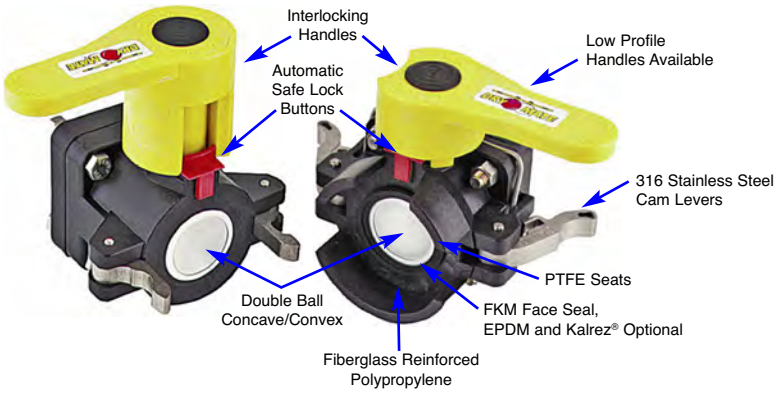
Ball Valves, PP Bolted Banjo

	Pipe Size (in.)	Opening Thru Ball (in.)	Description	Part #	Price $
	2 x 2	1 1/2	2" Male Adapter x 2" Female NPT	VSF200	46.59
	2 x 2	1 1/2	2" Male NPT x 2" Female NPT	VSMT200	46.59
	2 x 2	1 1/2	2" Male Adapter x 2" Male NPT	VSFMT200	49.57
	2 x 2	1 1/2	2" Male Adapter x 2" Hose Barb	VSFHB200	56.81
	2 x 2	2	2" Male NPT x 2" Female NPT	VSMT204FP	56.24
	2 x 2	2	2" Male Adapter x 2" Female NPT	VSF204FP	56.24
	2 x 2	2	2" Female NPT x 2" Female NPT	VS204FP	56.24
	2 x 2	2	2" Male Adapter x 2" Male NPT	VSFMT204FP	56.24
	3 x 3	2 1/2	3" Female NPT x 3" Male Adapter	VSF300	114.97
	3 x 3	2 1/2	3" Female NPT x 3" Male NPT	VSMT300	143.66
	3 x 3	2 1/2	3" Male NPT x 3" Male Adapter	VSFMT300	114.97
	3 x 3	2 1/2	3" Manifold Flange x 3" Male Adapter	MVSF300	114.97
	3 x 3	2 1/2	3" Manifold Flange x 3" Male NPT	MVSMT300	143.66
	2 x 1	N/A	2" NPT x 1" Dry Poppet Stubby Valve	VSMT200DPC	85.04

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Dry-Disconnects

Banjo 1-1/2” and 2” Standard Port Polypropylene Dry-Disconnects



1-1/2” and 2” Features:

- Lightweight.
- Unrestricted 1-1/2" flow.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps.
- Spillage Data: 1-1/2" = 2 ml and 2" = 2 ml

DRY MATE® patented

4

1-1/2” and 2” Male Standard Port Polypropylene Dry-Mates



Male Dry-Mate

Description	Max PSI	Pipe Size (in.)	Opening Thru Ball (in.)	Mfg Part #	Price $
1-1/2" Male x FNPT with FKM Seals	100	1-1/2	1-1/2	DM150A	180.11
1-1/2" Male x FNPT with EPDM Seals	100	1-1/2	1-1/2	DM150AE	180.11
1-1/2" Male x FNPT with Kalrez® Seals	100	1-1/2	1-1/2	DM150AT	1338.92
2" Male x FNPT with FKM Seals	100	2	1-1/2	DM200A	180.11
2" Male x FNPT with EPDM Seals	100	2	1-1/2	DM200AE	180.11
2" Male x FNPT with Kalrez® Seals	100	2	1-1/2	DM200AT	1338.92
2" Male x MNPT with FKM Seals and Low Profile Handle	100	2	1-1/2	DMMT201A	188.61
2" Male x MNPT with EPDM Seals and Low Profile Handle	100	2	1-1/2	DMMT201AE	188.61

Male and Female shown coupled together but sold separately.

1-1/2” and 2” Female Standard Port Polypropylene Dry-Mates



Female Dry-Mate

Description	Max PSI	Pipe Size (in.)	Opening Thru Ball (in.)	Mfg Part #	Price $
1-1/2" Female x FNPT with FKM Seals	100	1-1/2	1-1/2	DM150D	192.51
1-1/2" Female x FNPT with EPDM Seals	100	1-1/2	1-1/2	DM150DE	192.51
1-1/2" Female x FNPT with Kalrez® Seals	100	1-1/2	1-1/2	DM150DT	1338.92
2" Female x FNPT with FKM Seals	100	2	1-1/2	DM200D	192.51
2" Female x FNPT with EPDM Seals	100	2	1-1/2	DM200DE	192.51
2" Female x FNPT with Kalrez® Seals	100	2	1-1/2	DM200DT	1268.28



Banjo 2” and 3” Full Port Polypropylene Dry-Disconnects



Female Dry-Mate



Male Dry-Mate



Male and Female shown coupled together but sold separately.

2” and 3” Full Port Features:

- Lightweight.
- Unrestricted 2" and 3” flow.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps.
- Spillage Data: 2" = 3 ml and 3" = 25 ml

2” and 3” Full Port Polypropylene Dry-Mates

Description	Max PSI	Pipe Size (in.)	Opening Thru Ball (in.)	Mfg Part #	Price $
2" FP Male x FNPT with FKM Seals	225	2	2	DM220A	206.27
2" FP Female x FNPT with FKM Seals	225	2	2	DM220D	238.39
3" FP Male x FNPT Threads with FKM Seals	150	3	3	DM300AFP	322.95
3" FP Female x FNPT Threads with FKM Seals	150	3	3	DM300DFP	360.95

Dry-Disconnects

Banjo 1”, 1-1/2” and 2” Stainless Steel Dry-Disconnects


Female Dry-Mate


Male Dry-Mate


Male and Female shown coupled together but sold separately.

1”, 1-1/2” and 2” Features:
- 316 stainless steel construction.
- FKM, EPDM and Kalrez® face seals.
- 100% PTFE ball seats.
- 300°F maximum operating temperature.
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps.
- 1” and 1-1/2” Full Port.
- 2” Standard Port.
- Spillage Data: 1" = 1ml, 1-1/2" and 2" = 2ml

4

Banjo 1” and 1-1/2” Stainless Steel Full Port Dry-Mates

Description	Max PSI	Pipe Size (in.)	Opening Thru Ball (in.)	Mfg Part #	Price $
1" FP Male x FNPT with PTFE Seals	150	1	1	DM100ASS	399.07
1" FP Female x FNPT with FKM Seals	150	1	1	DM100DSS	482.00
1" FP Female x FNPT with EPDM Seals	150	1	1	DM100DSSE	482.00
1" FP Female x FNPT with Kalrez® Seals	150	1	1	DM100DSST	1528.92
1-1/2" FP Male x FNPT with PTFE Seals	150	1-1/2	1-1/2	DM150ASS	725.58
1-1/2" FP Female x FNPT with FKM Seals	150	1-1/2	1-1/2	DM150DSS	1101.34
1-1/2" FP Female x FNPT with EPDM Seals	150	1-1/2	1-1/2	DM150DSSE	1101.34
1-1/2" FP Female x FNPT with Kalrez® Seals	150	1-1/2	1-1/2	DM150DSST	3044.88

Banjo 2” Stainless Steel Standard Port Dry-Mates

Description	Max PSI	Pipe Size (in.)	Opening Thru Ball (in.)	Mfg Part #	Price $
2" Male x FNPT with PTFE Seals	300	2	1-1/2	DM200ASS	725.58
2" Female x FNPT with FKM Seals	300	2	1-1/2	DM200DSS	1101.34
2" Female x FNPT with EPDM Seals	150	2	1-1/2	DM200DSSE	1101.34
2" Female x FNPT with Kalrez® Seals	150	2	1-1/2	DM200DSST	3018.95

Banjo 2” Full Port Stainless Steel Dry-Disconnects


Male Dry-Mate


Female Dry-Mate

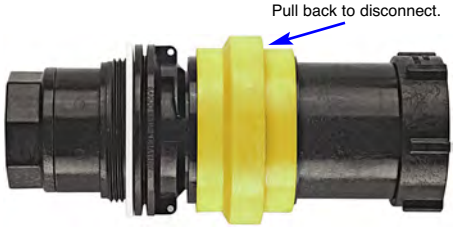
2” Full Port Features:
- 316 stainless steel construction.
- FKM standard, EPDM face seals available.
- 100% PTFE ball seats.
- 300°F maximum operating temperature.
- Filled valve for no product residue.
- 20 Degrees rotation either direction to ease coupling male and female halves.
- When properly installed and operated, the assembly will not accidentally separate while fluid is flowing; preventing costly mishaps.
- Spillage Data: Less than 1cc.

Banjo 2” Stainless Steel Full Port Dry-Mates

Description	Max PSI	Pipe Size (in.)	Opening Thru Ball (in.)	Mfg Part #	Price $
2" FP Male x FNPT with PTFE Seals	300	2	2	DM220ASS	943.28
2" FP Female x FNPT with FKM Seals	300	2	2	DM220DSS	1431.74
2" FP Female x FNPT with EPDM Seals	300	2	2	DM220DSSE	1431.74
2" FP Female x FNPT with Kalrez® Seals	300	2	2	DM220DSST	1678.55

DRY MATE® patented

Dry Poppet Coupling



DPCMT100 male adapter and DPCF100 female coupler shown coupled together but sold separately.

Dry Poppet Couplings with FKM Seals

Description	Max PSI	Mfg Part #	Price $
Female Dry Poppet Coupler, 1" FNPT with FKM Seals	100	DPCF100	115.28
Male Dry Poppet Adapter, 1" FNPT with FKM Seals	150	DPCM100	104.84
Male Dry Poppet Adapter, 2" MNPT Body, 1" FNPT with FKM Seals	150	DPCMT100	104.84

Features:
- Lightweight.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- Maximum operating temperature 150°F.
- 30 GPM maximum flow.
- Precision molded in polypropylene.
- 1" Female NPT threads.

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 100218

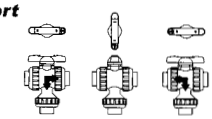
Multiport Ball Valves

ASAHI Multiport® Ball Valves Type-23

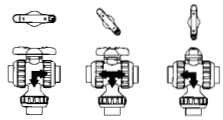
Available Flow Patterns

L-Port

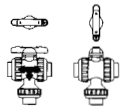
Single L Port Standard Pricing below



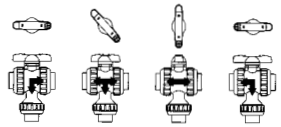
Double L-Port



T-Port



Cross Port



All Multiports have PTFE® seats with backing cushion of same material as seals.
◊FKM = Fpm type
EPDM available in PVC &CPVC upon request





Features

- PVC,CPVC,PP,PVDF • 1/2" - 6"
- FKM Seals (EPDM avail-PVC&CPVC)
- True Union design on all three ports
- Blow-out proof, solid mold bottom entry design
- Blocks from left or right union ports, leaving full pressure on the opposite end of valve
- Standard "L" port ball permits flow from common port to either left or right port or to "OFF" position
- All sizes rated for full vacuum service
- Eliminates need for additional valve and "TEE"

Options

- Pneumatic and electric actuators and accessories
- Stem extensions
- 2" square operating nut or "T" nut
- Locking handles
- Limit switches
- "T" port
- Double "L" port
- Cross Port

Size (in.)	PVC/FKM◊ socket Part #	Price $
1/2	2513-005	$120.00
3/4	2513-007	$143.00
1	2513-010	$190.00
1 1/4	2513-012	$416.00
1 1/2	2513-015	$343.00
2	2513-020	$425.00
2 1/2	2513-025	$1275.00
3	2513-030	$989.00
4	2513-040	$1705.00
6	2513-060	$2427.00

Size (in.)	PVC/FKM◊ threaded Part #	Price $
1/2	2514-005	$120.00
3/4	2514-007	$143.00
1	2514-010	$190.00
1 1/4	2514-012	$416.00
1 1/2	2514-015	$343.00
2	2514-020	$425.00
2 1/2	2514-025	$1275.00
3	2514-030	$989.00
4	2514-040	$1705.00
6	2514-060	$2427.00

Size (in.)	PVC/FKM◊ flanged Part #	Price $
1/2	2515-005	$246.00
3/4	2515-007	$258.00
1	2515-010	$383.00
1 1/4	2515-012	$848.00
1 1/2	2515-015	$714.00
2	2515-020	$932.00
2 1/2	2515-025	$2594.00
3	2515-030	$1833.00
4	2515-040	$2414.00
6	2515-060	$3175.00

Size (in.)	CPVC/FKM◊ socket Part #	Price $
1/2	1049-005	$143.00
3/4	1049-007	$161.00
1	1049-010	$228.00
1 1/4	1049-012	$457.00
1 1/2	1049-015	$396.00
2	1049-020	$523.00
2 1/2	1049-025	$1526.00
3	1049-030	$1239.00
4	1049-040	$2544.00
6	1049-060	$3292.00

Size (in.)	CPVC/FKM◊ threaded Part #	Price $
1/2	1050-005	$143.00
3/4	1050-007	$161.00
1	1050-010	$228.00
1 1/4	1050-012	$457.00
1 1/2	1050-015	$396.00
2	1050-020	$523.00
2 1/2	1050-025	$1526.00
3	1050-030	$1239.00
4	1050-040	$2544.00
6	1050-060	$3292.00

Size (in.)	CPVC/FKM◊ flanged Part #	Price $
1/2	1051-005	$291.00
3/4	1051-007	$333.00
1	1051-010	$477.00
1 1/4	1051-012	$931.00
1 1/2	1051-015	$865.00
2	1051-020	$1164.00
2 1/2	1051-025	$3108.00
3	1051-030	$2385.00
4	1051-040	$4264.00
6	1051-060	$5232.00

Size (in.)	PP/FKM◊ DIN socket Part #	Price $
1/2	1088-005	$283.00
3/4	1088-007	$334.00
1	1088-010	$444.00
1 1/4	1088-012	$818.00
1 1/2	1088-015	$818.00
2	1088-020	$1026.00
3	1088-030	$2478.00
4	1088-040	$2911.00

Size (in.)	PP/FKM◊ threaded Part #	Price $
1/2	2529-005	$283.00
3/4	2529-007	$334.00
1	2529-010	$444.00
1 1/4	2529-012	$818.00
1 1/2	2529-015	$818.00
2	2529-020	$1026.00
3	2529-030	$2478.00
4	2529-040	$2911.00

Size (in.)	PP/FKM◊ Butt fusion Part #	Price $
1/2	2530-005	$283.00
3/4	2530-007	$334.00
1	2530-010	$444.00
1 1/4	2530-012	$818.00
1 1/2	2530-015	$818.00
2	2530-020	$1026.00
3	2530-030	$2478.00
4	2530-040	$2911.00

Size (in.)	PP/FKM◊ IPS socket Part #	Price $
1/2	2528-005	$283.00
3/4	2528-007	$334.00
1	2528-010	$444.00
1 1/4	2528-012	$818.00
1 1/2	2528-015	$818.00
2	2528-020	$1026.00
3	2528-030	$2478.00
4	2528-040	$2911.00

Size (in.)	PP/FKM◊ flanged Part #	Price $
1/2	2531-005	$455.00
3/4	2531-007	$533.00
1	2531-010	$682.00
1 1/4	2531-012	$1166.00
1 1/2	2531-015	$1166.00
2	2531-020	$1463.00
3	2531-030	$3141.00
4	2531-040	$4380.00
6	2531-060	$6155.00

Size (in.)	PVDF/FKM◊ DIN socket Part #	Price $
1/2	2532-005	$403.00
3/4	2532-007	$519.00
1	2532-010	$691.00
1 1/4	2532-012	$1138.00
1 1/2	2532-015	$1138.00
2	2532-020	$1589.00
3	2532-030	$5311.00
4	2532-040	$6040.00

Size (in.)	PVDF/FKM◊ threaded Part #	Price $
1/2	2534-005	$403.00
3/4	2534-007	$519.00
1	2534-010	$691.00
1 1/4	2534-012	$1138.00
1 1/2	2534-015	$1138.00
2	2534-020	$1589.00
3	2534-030	$5311.00
4	2534-040	$6040.00

Size (in.)	PVDF/FKM◊ Butt fusion Part #	Price $
1/2	1064-005	$403.00
3/4	1064-007	$519.00
1	1064-010	$691.00
1 1/4	1064-012	$1138.00
1 1/2	1064-015	$1138.00
2	1064-020	$1589.00
3	1064-030	$5311.00
4	1064-040	$6040.00

Size (in.)	PVDF/FKM◊ IPS socket Part #	Price $
1/2	2533-005	$403.00
3/4	2533-007	$519.00
1	2533-010	$691.00
1 1/4	2533-012	$1138.00
1 1/2	2533-015	$1138.00
2	2533-020	$1589.00
3	2533-030	$5311.00
4	2533-040	$6040.00

Size (in.)	PVDF/FKM◊ flanged Part #	Price $
1/2	1065-005	$815.00
3/4	1065-007	$1029.00
1	1065-010	$1389.00
1 1/4	1065-012	$1967.00
1 1/2	1065-015	$1967.00
2	1065-020	$2673.00
3	1065-030	$6972.00
4	1065-040	$7619.00
6	1065-060	$9781.00

3-Way Ball Valves

Hayward® Three Way Ball Valves



FEATURES

- Available in PVC & CPVC (Corzan®)
- FPM Seals (Fpm type)
- 1/2" thru 6" rated to 150 PSI @ 70°F
- Integrally molded mounting saddle
- PTFE seats
- True union end connections
- Two port "TW" ball allowing for three flow configurations within 180° of rotation.

OPTIONS

- Valve Safe Lockout
- EPDM seals
- Pneumatic and Electric Actuators
- Lateral three way ball valves



Lateral

Size (in.)*	PVC/FPM◊ soc./thr. Part #	Price $
1/2	2135-005	$97.70
3/4	2135-007	$115.85
1	2135-010	$140.80
1 1/4	2135-012	$184.10
1 1/2	2135-015	$198.05
2	2135-020	$251.75
2 1/2	2135-025-S	$787.65
2 1/2	2135-025-T	$787.65
3	2135-030-S	$801.95
3	2135-030-T	$801.95
4	2135-040-S	$1387.25
4	2135-040-T	$1387.25

Size (in.)*	PVC/FPM◊ flanged Part #	Price $
1/2	2136-005	$192.85
3/4	2136-007	$204.85
1	2136-010	$242.35
1 1/4	2136-012	$414.80
1 1/2	2136-015	$467.40
2	2136-020	$630.35
2 1/2	2136-025	$1365.00
3	2136-030	$1365.00
4	2136-040	$1908.40
6**	2136-060	$3027.25

Size (in.)*	CPVC/FPM◊ soc./thr. Part #	Price $
1/2	2137-005	$147.65
3/4	2137-007	$153.20
1	2137-010	$216.60
1 1/4	2137-012	$283.15
1 1/2	2137-015	$304.55
2	2137-020	$395.70
2 1/2	2137-025-S	$1211.75
2 1/2	2137-025-T	$1211.75
3	2137-030-S	$1207.65
3	2137-030-T	$1207.65
4	2137-040-S	$2134.20
4	2137-040-T	$2134.20

Size (in.)*	CPVC/FPM◊ flanged Part #	Price $
1/2	2138-005	$296.65
3/4	2138-007	$332.20
1	2138-010	$359.95
1 1/4	2138-012	$615.40
1 1/2	2138-015	$680.75
2	2138-020	$936.25
2 1/2	2138-025	$2046.30
3	2138-030	$2046.30
4	2138-040	$2936.00
6**	2138-060	$4987.55

*1/2" thru 2" PVC and CPVC valves are supplied with both socket and threaded end connectors. 2 1/2" and above are supplied with either socket or threaded end connectors. **6" venturied from 4" valve. ◊FPM = Fpm® type

All prices subject to change without notice.

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3-Way Ball Valves

GF Type 543 3-Way Ball Valves

With its modular design, the Type 543 ball valve is ideal for virtually any application. The valve is available in PVC, CPVC, Polypropylene, and PVDF materials. The different materials allow for a variety of chemical applications, and in many cases are an ideal fit for extreme temperatures. Easy installation is achieved with options such as threaded, spigot, or socket end connectors. The Type 543 ball valve is also available in pneumatic and electrically actuated versions. Modularity allows for changes in the field such as retrofitting on actuator to a manual valve. The 543 was designed to meet the high demand world of industrial valves.

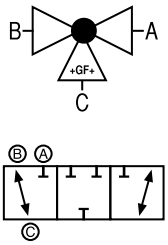
The valve for all mixing- and diverting processes in your application. The ball valve type 543 is available as a horizontal and vertical version. The horizontal valve can be ordered with L- or T-Port ball. The vertical valve comes in the L-Port configuration or with a optional diverter ball.

Options:
- Multifunctional handle (lockable, 45° pitch)
- Electric and pneumatic actuation
- Ball with L-Port / T-Port
- Ball with L-Port and diverter ball
- 180° end stop on request

Advantages:
- 90° end stop attached for all horizontal valves
- Integrated fixing system with mounting inserts (horizontal)
- Indicator for the position of the ball on the handle
- The horizontal version includes three ball seals
- Safety build-up due to indexed ball, stem and handle
- Handle with integrated tool for removing of union bushings
- From the manual valve to the actuated ball valve with several options

GF Type 543 - PVC / Vertical / L-port





Model:
- Vertical inlet solvent cement spigot metric
- Easy installation and removal using union on third outlet
- Ball seals PTFE
- Electric actuator available separately
- Angle of operation 360° without turn limiter
- Delivery status B-C opened, see flow scheme
- Pressure rating: 150 PSI at water 68°F

PVC / EPDM

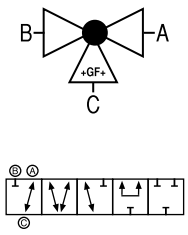
Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	161 543 661	7301-003	103.00	161 543 681	7302-003	103.00
1/2	161 543 662	7301-005	105.00	161 543 682	7302-005	105.00
3/4	161 543 663	7301-007	124.00	161 543 683	7302-007	124.00
1	161 543 664	7301-010	152.00	161 543 684	7302-010	152.00
1 1/4	161 543 665	7301-012	181.00	161 543 685	7302-012	181.00
1 1/2	161 543 666	7301-015	209.00	161 543 686	7302-015	209.00
2	161 543 667	7301-020	261.00	161 543 687	7302-020	261.00

PVC / FPM

Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	161 543 671	7303-003	117.00	161 543 691	7304-003	117.00
1/2	161 543 672	7303-005	118.00	161 543 692	7304-005	118.00
3/4	161 543 673	7303-007	135.00	161 543 693	7304-007	135.00
1	161 543 674	7303-010	170.00	161 543 694	7304-010	170.00
1 1/4	161 543 675	7303-012	201.00	161 543 695	7304-012	201.00
1 1/2	161 543 676	7303-015	234.00	161 543 696	7304-015	234.00
2	161 543 677	7303-020	301.00	161 543 697	7304-020	301.00

GF Type 543 - PVC / Horizontal / L-port





Model:
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Pressure rating: 150 PSI at water 68°

PVC / EPDM

Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	161 543 081	7310-003-S	104.00	161 543 101	7310-003-T	104.00
1/2	161 543 082	7310-005-S	105.00	161 543 102	7310-005-T	108.00
3/4	161 543 083	7310-007-S	126.00	161 543 103	7310-007-T	126.00
1	161 543 084	7310-010-S	155.00	161 543 104	7310-010-T	156.00
1 1/4	161 543 085	7310-012-S	180.00	161 543 105	7310-012-T	180.00
1 1/2	161 543 086	7310-015-S	206.00	161 543 106	7310-015-T	206.00
2	161 543 087	7310-020-S	252.00	161 543 107	7310-020-T	261.00

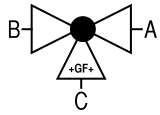
PVC / FPM

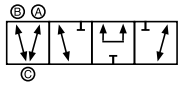
Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	161 543 091	7311-003-S	118.00	161 543 111	7311-003-T	118.00
1/2	161 543 092	7311-005-S	121.00	161 543 112	7311-005-T	121.00
3/4	161 543 093	7311-007-S	139.00	161 543 113	7311-007-T	142.00
1	161 543 094	7311-010-S	171.00	161 543 114	7311-010-T	174.00
1 1/4	161 543 095	7311-012-S	200.00	161 543 115	7311-012-T	200.00
1 1/2	161 543 096	7311-015-S	206.00	161 543 116	7311-015-T	206.00
2	161 543 097	7311-020-S	253.00	161 543 117	7311-020-T	261.00

3-Way Ball Valves

GF Type 543 - PVC / Horizontal / T-port







Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- Pressure rating: 150 PSI at water 68°

PVC / EPDM

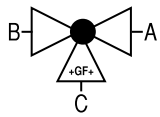
Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	161 543 281	7312-003-S	98.00	161 543 301	7312-003-T	98.00
1/2	161 543 282	7312-005-S	99.00	161 543 302	7312-005-T	101.00
3/4	161 543 283	7312-007-S	118.00	161 543 303	7312-007-T	118.00
1	161 543 284	7312-010-S	145.00	161 543 304	7312-010-T	146.00
1 1/4	161 543 285	7312-012-S	169.00	161 543 305	7312-012-T	169.00
1 1/2	161 543 286	7312-015-S	193.00	161 543 306	7312-015-T	193.00
2	161 543 287	7312-020-S	244.00	161 543 307	7312-020-T	244.00

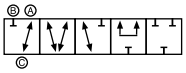
PVC / FPM

Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	161 543 291	7313-003-S	118.00	161 543 311	7313-003-T	118.00
1/2	161 543 292	7313-005-S	121.00	161 543 312	7313-005-T	121.00
3/4	161 543 293	7313-007-S	139.00	161 543 313	7313-007-T	139.00
1	161 543 294	7313-010-S	171.00	161 543 314	7313-010-T	174.00
1 1/4	161 543 295	7313-012-S	200.00	161 543 315	7313-012-T	200.00
1 1/2	161 543 296	7313-015-S	230.00	161 543 316	7313-015-T	241.00
2	161 543 297	7313-020-S	298.00	161 543 317	7313-020-T	312.00

GF Type 543 - CPVC / Horizontal / L-port







Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-C opened, see flow scheme
- Pressure rating: 150 PSI at water 68°

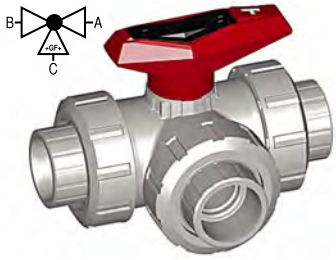
CPVC / EPDM

Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	163 543 081	7314-003-S	200.00	163 543 101	7314-003-T	200.00
1/2	163 543 082	7314-005-S	200.00	163 543 102	7314-005-T	200.00
3/4	163 543 083	7314-007-S	241.00	163 543 103	7314-007-T	241.00
1	163 543 084	7314-010-S	296.00	163 543 104	7314-010-T	296.00
1 1/4	163 543 085	7314-012-S	342.00	163 543 105	7314-012-T	342.00
1 1/2	163 543 086	7314-015-S	392.00	163 543 106	7314-015-T	392.00
2	163 543 087	7314-020-S	485.00	163 543 107	7314-020-T	485.00

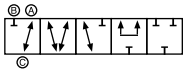
CPVC / FPM

Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	163 543 091	7315-003-S	220.00	163 543 111	7315-003-T	220.00
1/2	163 543 092	7315-005-S	220.00	163 543 112	7315-005-T	220.00
3/4	163 543 093	7315-007-S	254.00	163 543 113	7315-007-T	254.00
1	163 543 094	7315-010-S	317.00	163 543 114	7315-010-T	317.00
1 1/4	163 543 095	7315-012-S	374.00	163 543 115	7315-012-T	374.00
1 1/2	163 543 096	7315-015-S	437.00	163 543 116	7315-015-T	437.00
2	163 543 097	7315-020-S	557.00	163 543 117	7315-020-T	557.00

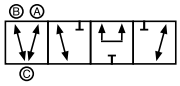
GF Type 543 - CPVC / Horizontal / T-port



Socket ASTM Flow



Socket NPT Flow



Model:

- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status A-B-C opened, see flow scheme
- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pressure rating: 150 PSI at water 68°

CPVC / EPDM

Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	163 543 281	7316-003-S	200.00	163 543 301	7316-003-T	200.00
1/2	163 543 282	7316-005-S	200.00	163 543 302	7316-005-T	200.00
3/4	163 543 283	7316-007-S	241.00	163 543 303	7316-007-T	241.00
1	163 543 284	7316-010-S	296.00	163 543 304	7316-010-T	296.00
1 1/4	163 543 285	7316-012-S	342.00	163 543 305	7316-012-T	342.00
1 1/2	163 543 286	7316-015-S	392.00	163 543 306	7316-015-T	392.00
2	163 543 287	7316-020-S	485.00	163 543 307	7316-020-T	485.00

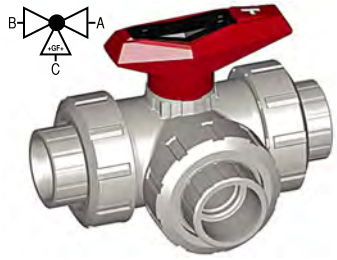
CPVC / FPM

Size (in.)	SOCKET ASTM		Price $	THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	163 543 291	7317-003-S	220.00	163 543 311	7317-003-T	220.00
1/2	163 543 292	7317-005-S	220.00	163 543 312	7317-005-T	220.00
3/4	163 543 293	7317-007-S	254.00	163 543 313	7317-007-T	254.00
1	163 543 294	7317-010-S	317.00	163 543 314	7317-010-T	317.00
1 1/4	163 543 295	7317-012-S	374.00	163 543 315	7317-012-T	374.00
1 1/2	163 543 296	7317-015-S	437.00	163 543 316	7317-015-T	437.00
2	163 543 297	7317-020-S	557.00	163 543 317	7317-020-T	557.00

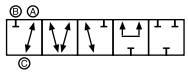
ALSCO Industrial Products, Inc. · 1265 Mount Vernon Rd. · Lithia Springs, GA. 30122 · FAX 770-739-7549
770-941-3030 · 1-800-849-3030 · www.alscoplastics.com · 011419

3-Way Ball Valves

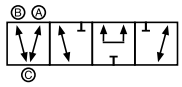
GF Type 543 - PP / Horizontal / L-port / T-port



L-port Flow



T-port Flow



Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status L-port is A-C opened, T-port is A-B-C opened, see flow scheme
- Pressure rating: 150 PSI at water 68°

PP / EPDM

Size (in.)	L-PORT THREADED NPT		Price $	T-PORT THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	167 543 161	7318-003-T	201.00	167 543 361	7320-003-T	180.00
1/2	167 543 162	7318-005-T	206.00	167 543 362	7320-005-T	180.00
3/4	167 543 163	7318-007-T	231.00	167 543 363	7320-007-T	199.00
1	167 543 164	7318-010-T	295.00	167 543 364	7320-010-T	261.00
1 1/4	167 543 165	7318-012-T	331.00	167 543 365	7320-012-T	332.00
1 1/2	167 543 166	7318-015-T	389.00	167 543 366	7320-015-T	443.00
2	167 543 167	7318-020-T	475.00	167 543 367	7320-020-T	502.00

PP / FPM

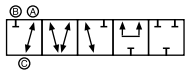
Size (in.)	L-PORT THREADED NPT		Price $	T-PORT THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	167 543 171	7319-003-T	246.00	167 543 371	7321-003-T	213.00
1/2	167 543 172	7319-005-T	250.00	167 543 372	7321-005-T	213.00
3/4	167 543 173	7319-007-T	285.00	167 543 373	7321-007-T	250.00
1	167 543 174	7319-010-T	358.00	167 543 374	7321-010-T	332.00
1 1/4	167 543 175	7319-012-T	401.00	167 543 375	7321-012-T	470.00
1 1/2	167 543 176	7319-015-T	484.00	167 543 376	7321-015-T	614.00
2	167 543 177	7319-020-T	617.00	167 543 377	7321-020-T	782.00

4

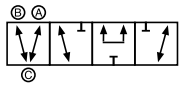
GF Type 543 - PVDF / Horizontal / L-port / T-port



L-port Flow



T-port Flow



Model:

- For easy installation and removal (valve end and union nut are compatible with type 546)
- Ball seals PTFE
- Pneumatic or electric actuator available separately
- Angle of operation 360° without turn limiter
- Turn limiter 90° enclosed, in different positions usable as a clip-on ring
- Integrated stainless steel mounting inserts
- Delivery status L-port is A-C opened, T-port is A-B-C opened, see flow scheme
- Pressure rating: 150 PSI at water 68°

PVDF / FPM

Size (in.)	L-PORT THREADED NPT		Price $	T-PORT THREADED NPT		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3/8	175 543 071	7322-003-T	513.00	175 543 171	7323-003-T	513.00
1/2	175 543 072	7322-005-T	527.00	175 543 172	7323-005-T	527.00
3/4	175 543 073	7322-007-T	645.00	175 543 173	7323-007-T	645.00
1	175 543 074	7322-010-T	844.00	175 543 174	7323-010-T	844.00
1 1/4	175 543 075	7322-012-T	1026.00	175 543 175	7323-012-T	1026.00
1 1/2	175 543 076	7322-015-T	1352.00	175 543 176	7323-015-T	1352.00
2	175 543 077	7322-020-T	1763.00	175 543 177	7323-020-T	1763.00

GF Type 543 - Actuated 3-Way Ball Valves

Electrically Actuated 3-Way Ball Valves

See Page 271



Advantages:

- Robust PP-GF housing with great chemical resistance
- Flexible configuration of the actuator thanks to the modular concept
- Numerous options for controlling and monitoring with intelligent, self-learning accessory
- Easy handling
- Suitable for universal use due to wide range power supply and standard interfaces
- Long life time due to roust concept and the choice of best electronic
- Additional safety due to fail-safe unit and battery pack (optional)

Pneumatically Actuated 3-Way Ball Valves

See Pages 272 - 273



Advantages:

- Robust PP-GF housing
- Full plastic actuator
- Position indicator with integrated NAMUR interface
- Fast cycle times
- Multi functional module with different limit switch types optional available

Actuated Ball Valves

Asahi Electrically Actuated Ball Valves

Series 94





Features

- Available in PVC, CPVC, PP, & PVDF
- 100% Duty Cycle • Cycle Time 5 sec.
- Sizes 1/2" to 3" • EPDM or FKM seals
- PVC & CPVC - Soc.,thr.,flanged
- PP & PVDF - IPS & Din Soc.,thr.,Butt, flanged • ISO bolt circle
- Brushless, capacitor-run motors
- Corrosion/weather proof NEMA 4X thermoplastic housing SS trim
- Two 1/2 NPT conduit ports prevent interference between control and power signals • Compact design
- Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights • Visible position indicator

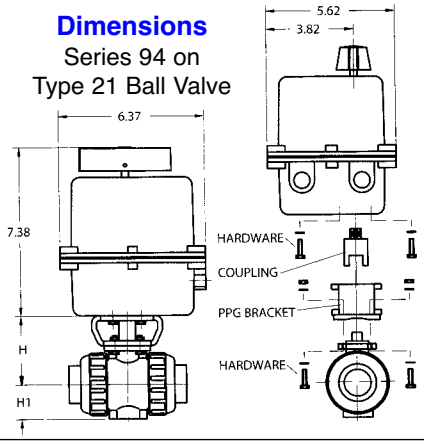
Options

- Extra limits switches
- Feedback potentiometer
- Heater and thermostat (to -40°F)
- Positioner: 4-20 mA or 0-10 Vdc input signal
- 4-20 mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation
- 316 SS tagging
- Local / Remote Station

Inch Size	mm Size	H Inch	H1 Inch
1/2	15	2.76	1.14
3/4	20	3.01	1.38
1	25	3.29	1.54
1 1/4	30	3.64	1.85
1 1/2	40	3.98	2.17
2	50	4.43	2.60
2 1/2	65	5.12	2.83
3	80	5.47	3.35

Dimensions

Series 94 on Type 21 Ball Valve



Electric Actuator Series 94:

- Motor Type: Reversing, 1/4 Turn Single phase
- Torque: 150 to 300 in-lbs
- Voltage: 120 Vac, 50/60 Hz
- Amp Draw: A94: .50 Amps B94: .80 Amps
- Max Ambient Temp: 150°F
- Switches: Two single pole, double throw (15 Amp rating)

Engineering Data

S = Socket
T = Threaded
F = Flanged

Actuat. Model	Torque in/lbs	Duty Cycle	Cycle Time (Sec.)	Weight Lbs.	Amp Draw 115 Vac	220 Vac	24 Vac	12 Vac	24 Vdc	12 Vdc
A94	150	100	5	3.5	0.50	0.4	4.0	2.0	4.0	2.0
B94	300	75	5	3.5	0.80	0.6	4.0	2.0	4.0	2.0

Size (in.)	PVC/EPDM soc/thr/flanged Part #	Price $
1/2	6716-005-S	$1074.00
1/2	6716-005-T	$1074.00
1/2	6716-005-F	$720.00
3/4	6716-007-S	$1081.00
3/4	6716-007-T	$1081.00
3/4	6716-007-F	$730.00
1	6716-010-S	$1088.00
1	6716-010-T	$1088.00
1	6716-010-F	$766.00
1 1/4	6716-012-S	$1102.00
1 1/4	6716-012-T	$1102.00
1 1/4	6716-012-F	$852.00
1 1/2	6716-015-S	$1116.00
1 1/2	6716-015-T	$1116.00
1 1/2	6716-015-F	$889.00
2	6716-020-S	$1142.00
2	6716-020-T	$1142.00
2	6716-020-F	$1004.00
2 1/2	6716-025-S	$1335.00
2 1/2	6716-025-T	$1335.00
2 1/2	6716-025-F	$1183.00
3	6716-030-S	$1341.00
3	6716-030-T	$1341.00
3	6716-030-F	$1362.00

Size (in.)	PVC/FKM soc/thr/flanged Part #	Price $
1/2	6717-005-S	$1077.00
1/2	6717-005-T	$1077.00
1/2	6717-005-F	$733.00
3/4	6717-007-S	$1086.00
3/4	6717-007-T	$1086.00
3/4	6717-007-F	$740.00
1	6717-010-S	$1093.00
1	6717-010-T	$1093.00
1	6717-010-F	$782.00
1 1/4	6717-012-S	$1112.00
1 1/4	6717-012-T	$1112.00
1 1/4	6717-012-F	$884.00
1 1/2	6717-015-S	$1126.00
1 1/2	6717-015-T	$1126.00
1 1/2	6717-015-F	$904.00
2	6717-020-S	$1152.00
2	6717-020-T	$1152.00
2	6717-020-F	$1018.00
2 1/2	6717-025-S	$1374.00
2 1/2	6717-025-T	$1374.00
2 1/2	6717-025-F	$1283.00
3	6717-030-S	$1381.00
3	6717-030-T	$1381.00
3	6717-030-F	$1438.00

Size (in.)	CPVC/EPDM soc/thr/flanged Part #	Price $
1/2	6718-005-S	$1089.00
1/2	6718-005-T	$1089.00
1/2	6718-005-F	$850.00
3/4	6718-007-S	$1100.00
3/4	6718-007-T	$1100.00
3/4	6718-007-F	$873.00
1	6718-010-S	$1115.00
1	6718-010-T	$1115.00
1	6718-010-F	$930.00
1 1/4	6718-012-S	$1142.00
1 1/4	6718-012-T	$1142.00
1 1/4	6718-012-F	$1077.00
1 1/2	6718-015-S	$1162.00
1 1/2	6718-015-T	$1162.00
1 1/2	6718-015-F	$1156.00
2	6718-020-S	$1205.00
2	6718-020-T	$1205.00
2	6718-020-F	$1329.00
2 1/2	6718-025-S	$1567.00
2 1/2	6718-025-T	$1567.00
2 1/2	6718-025-F	$1525.00
3	6718-030-S	$1581.00
3	6718-030-T	$1581.00
3	6718-030-F	$1853.00

Size (in.)	CPVC/FKM soc/thr/flanged Part #	Price $
1/2	6719-005-S	$1092.00
1/2	6719-005-T	$1092.00
1/2	6719-005-F	$861.00
3/4	6719-007-S	$1103.00
3/4	6719-007-T	$1103.00
3/4	6719-007-F	$891.00
1	6719-010-S	$1118.00
1	6719-010-T	$1118.00
1	6719-010-F	$951.00
1 1/4	6719-012-S	$1147.00
1 1/4	6719-012-T	$1147.00
1 1/4	6719-012-F	$1111.00
1 1/2	6719-015-S	$1168.00
1 1/2	6719-015-T	$1168.00
1 1/2	6719-015-F	$1176.00
2	6719-020-S	$1214.00
2	6719-020-T	$1214.00
2	6719-020-F	$1353.00
2 1/2	6719-025-S	$1595.00
2 1/2	6719-025-T	$1595.00
2 1/2	6719-025-F	$1634.00
3	6719-030-S	$1611.00
3	6719-030-T	$1611.00
3	6719-030-F	$2139.00

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Actuated Ball Valves

Asahi Electrically Actuated Ball Valves

Series 94





Features

- Available in PVC, CPVC, PP, & PVDF
- 100% Duty Cycle • Cycle Time 5 sec.
- Sizes 1/2" to 3" • EPDM or FKM seals
- PVC & CPVC - Soc.,thr.,flanged
- PP & PVDF - IPS & Din Soc.,thr.,Butt, flanged • ISO bolt circle
- Brushless, capacitor-run motors
- Corrosion/weather proof NEMA 4X thermoplastic housing SS trim
- Two 1/2 NPT conduit ports prevent interference between control and power signals • Compact design
- Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights • Visible position indicator

S = IPS Socket
DS = Din Socket
B = Butt fusion
T = Threaded
F = Flanged

Options

- Extra limits switches
- Feedback potentiometer
- Heater and thermostat (to -40°F)
- Positioner: 4-20 mA or 0-10 Vdc input signal
- 4-20 mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation
- 316 SS tagging
- Local / Remote Station

Electric Actuator Series 94:

- Motor Type: Reversing, 1/4 Turn Single phase
- Torque: 150 to 300 in-lbs
- Voltage: 120 Vac, 50/60 Hz
- Amp Draw: A94: .50 Amps B94: .80 Amps
- Max Ambient Temp: 150°F
- Switches: Two single pole, double throw (15 Amp rating)

Size (in.)	PP/EPDM Butt/soc/thr/flg Part #	Price $
1/2	6720-005-B	$769.81
1/2	6720-005-DS	$769.81
1/2	6720-005-S	$769.81
1/2	6720-005-T	$769.81
1/2	6720-005-F	$847.35
3/4	6720-007-B	$790.70
3/4	6720-007-DS	$790.70
3/4	6720-007-S	$790.70
3/4	6720-007-T	$790.70
3/4	6720-007-F	$874.49
1	6720-010-B	$810.44
1	6720-010-DS	$810.44
1	6720-010-S	$810.44
1	6720-010-T	$810.44
1	6720-010-F	$927.41
1 1/4	6720-012-B	$863.36
1 1/4	6720-012-DS	$863.36
1 1/4	6720-012-S	$863.36
1 1/4	6720-012-T	$863.36
1 1/4	6720-012-F	$1134.37
1 1/2	6720-015-B	$889.25
1 1/2	6720-015-DS	$889.25
1 1/2	6720-015-S	$889.25
1 1/2	6720-015-T	$889.25
1 1/2	6720-015-F	$1306.78
2	6720-020-B	$958.23
2	6720-020-DS	$958.23
2	6720-020-S	$958.23
2	6720-020-T	$958.23
2	6720-020-F	$1306.78
2 1/2	6720-025-B	$1295.70
2 1/2	6720-025-DS	$1295.70
2 1/2	6720-025-S	$1295.70
2 1/2	6720-025-T	$1295.70
2 1/2	6720-025-F	$1560.51
3	6720-030-B	$1458.29
3	6720-030-DS	$1458.29
3	6720-030-S	$1458.29
3	6720-030-T	$1458.29
3	6720-030-F	$1878.29

Size (in.)	PP/FKM Butt/soc/thr/flg Part #	Price $
1/2	6721-005-B	$784.56
1/2	6721-005-DS	$784.56
1/2	6721-005-S	$784.56
1/2	6721-005-T	$784.56
1/2	6721-005-F	$869.56
3/4	6721-007-B	$803.04
3/4	6721-007-DS	$803.04
3/4	6721-007-S	$803.04
3/4	6721-007-T	$803.04
3/4	6721-007-F	$901.58
1	6721-010-B	$823.99
1	6721-010-DS	$823.99
1	6721-010-S	$823.99
1	6721-010-T	$823.99
1	6721-010-F	$960.70
1 1/4	6721-012-B	$886.78
1 1/4	6721-012-DS	$886.78
1 1/4	6721-012-S	$886.78
1 1/4	6721-012-T	$886.78
1 1/4	6721-012-F	$1195.95
1 1/2	6721-015-B	$915.13
1 1/2	6721-015-DS	$915.13
1 1/2	6721-015-S	$915.13
1 1/2	6721-015-T	$915.13
1 1/2	6721-015-F	$1390.52
2	6721-020-B	$995.19
2	6721-020-DS	$995.19
2	6721-020-S	$995.19
2	6721-020-T	$995.19
2	6721-020-F	$1390.52
2 1/2	6721-025-B	$1370.83
2 1/2	6721-025-DS	$1370.83
2 1/2	6721-025-S	$1370.83
2 1/2	6721-025-T	$1370.83
2 1/2	6721-025-F	$1671.34
3	6721-030-B	$1556.78
3	6721-030-DS	$1556.78
3	6721-030-S	$1556.78
3	6721-030-T	$1556.78
3	6721-030-F	$2029.76

Size (in.)	PVDF/FKM Butt/soc/thr/flg Part #	Price $
1/2	6722-005-B	$933.61
1/2	6722-005-DS	$933.61
1/2	6722-005-S	$933.61
1/2	6722-005-T	$933.61
1/2	6722-005-F	$1193.48
3/4	6722-007-B	$1014.88
3/4	6722-007-DS	$1014.88
3/4	6722-007-S	$1014.88
3/4	6722-007-T	$1014.88
3/4	6722-007-F	$1593.74
1	6722-010-B	$1161.46
1	6722-010-DS	$1161.46
1	6722-010-S	$1161.46
1	6722-010-T	$1161.46
1	6722-010-F	$1593.74
1 1/4	6722-012-B	$1243.99
1 1/4	6722-012-DS	$1243.99
1 1/4	6722-012-S	$1243.99
1 1/4	6722-012-T	$1243.99
1 1/4	6722-012-F	$1757.54
1 1/2	6722-015-B	$1502.60
1 1/2	6722-015-DS	$1502.60
1 1/2	6722-015-S	$1502.60
1 1/2	6722-015-T	$1502.60
1 1/2	6722-015-F	$2010.07
2	6722-020-B	$1787.10
2	6722-020-DS	$1787.10
2	6722-020-S	$1787.10
2	6722-020-T	$1787.10
2	6722-020-F	$2486.72
2 1/2	6722-025-B	$2770.01
2 1/2	6722-025-DS	$2770.01
2 1/2	6722-025-S	$2770.01
2 1/2	6722-025-T	$2770.01
2 1/2	6722-025-F	$3793.49
3	6722-030-B	$3525.01
3	6722-030-DS	$3525.01
3	6722-030-S	$3525.01
3	6722-030-T	$3525.01
3	6722-030-F	$4660.58

Actuated Ball Valves

Asahi Electrically Actuated Ball Valves





Series 92

Features

- Available in PVC, CPVC, PP, & PVDF
- 100% Duty Cycle • Cycle Time 10 sec.
- Sizes 1/2" to 4" • EPDM or FKM seals
- PVC & CPVC - Soc.,thr.,flanged
- PP & PVDF - IPS & Din Soc.,thr.,Butt, flanged • ISO bolt circle
- Brushless, capacitor-run motors
- Combination NEMA 4X, 7, & 9 enclosure w/thermally bonded epoxy powder coating w/stainless steel trim
- Two 1/2 NPT conduit ports prevent interference between control and power signals
- Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights • Visible position indicator

Options

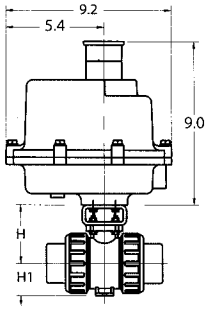
- Extra limits switches
- Feedback potentiometer
- Heater and thermostat (to -40°F)
- Positioner: 4-20 mA or 0-10 Vdc input
- 4-20 mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation
- Bus systems - Consult Sales Office
- 316 SS tagging
- Local / Remote Station

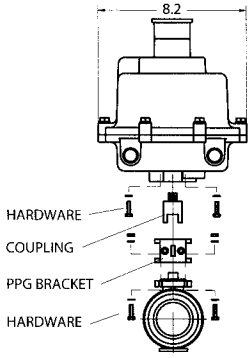
Electric Actuator Series 92:

- Motor Type: Reversing, 1/4 Turn Single phase
- Torque: 400 to 700 in-lbs
- Voltage: 120 Vac, 50/60 Hz
- Amp Draw: S92: .5 Amps A92: .80 Amps
- Max Ambient Temp: 150°F
- Switches: Two single pole, double throw (15 Amp rating)

Inch Size	mm Size	H Inch	H1 Inch
1/2	15	2.76	1.14
3/4	20	3.01	1.38
1	25	3.29	1.54
1 1/4	30	3.64	1.85
1 1/2	40	3.98	2.17
2	50	4.43	2.60
2 1/2	65	5.12	2.83
3	80	5.47	3.35
4	100	6.97	4.33

Dimensions
Series 92 on Type 21 Ball Valve





Engineering Data

S = Socket
T = Threaded
F = Flanged

Actuat. Model	Torque in/lbs	Duty Cycle	Cycle Time (Sec.)	Weight Lbs.	Amp Draw 115 Vac	220 Vac	24 Vac	12 Vac	24 Vdc	12 Vdc
S92	400	100	10	10.0	0.50	0.4	3.0	2.0	4.0	2.0
A92	700	75	10	10.0	0.80	0.6	3.0	2.0	4.0	2.0

Size (in.)	PVC/EPDM soc/thr/flanged Part #	Price $
1/2	6723-005-S	$1606.00
1/2	6723-005-T	$1606.00
1/2	6723-005-F	$1117.00
3/4	6723-007-S	$1613.00
3/4	6723-007-T	$1613.00
3/4	6723-007-F	$1129.00
1	6723-010-S	$1620.00
1	6723-010-T	$1620.00
1	6723-010-F	$1165.00
1 1/4	6723-012-S	$1634.00
1 1/4	6723-012-T	$1634.00
1 1/4	6723-012-F	$1251.00
1 1/2	6723-015-S	$1648.00
1 1/2	6723-015-T	$1648.00
1 1/2	6723-015-F	$1288.00
2	6723-020-S	$1674.00
2	6723-020-T	$1674.00
2	6723-020-F	$1403.00
2 1/2	6723-025-S	$2318.00
2 1/2	6723-025-T	$2318.00
2 1/2	6723-025-F	$1913.00
3	6723-030-S	$2324.00
3	6723-030-T	$2324.00
3	6723-030-F	$2092.00
4	6723-040-S	$2496.00
4	6723-040-T	$2496.00
4	6723-040-F	$2540.00
6	6723-060-S	$3450.00
6	6723-060-T	$3450.00
6	6723-060-F	$3059.00

Size (in.)	PVC/FKM soc/thr/flanged Part #	Price $
1/2	6724-005-S	$1609.00
1/2	6724-005-T	$1609.00
1/2	6724-005-F	$1132.00
3/4	6724-007-S	$1618.00
3/4	6724-007-T	$1618.00
3/4	6724-007-F	$1139.00
1	6724-010-S	$1625.00
1	6724-010-T	$1625.00
1	6724-010-F	$1180.00
1 1/4	6724-012-S	$1644.00
1 1/4	6724-012-T	$1644.00
1 1/4	6724-012-F	$1283.00
1 1/2	6724-015-S	$1624.00
1 1/2	6724-015-T	$1624.00
1 1/2	6724-015-F	$1303.00
2	6724-020-S	$1684.00
2	6724-020-T	$1684.00
2	6724-020-F	$1417.00
2 1/2	6724-025-S	$2356.00
2 1/2	6724-025-T	$2356.00
2 1/2	6724-025-F	$2013.00
3	6724-030-S	$2364.00
3	6724-030-T	$2364.00
3	6724-030-F	$2169.00
4	6724-040-S	$2548.00
4	6724-040-T	$2548.00
4	6724-040-F	$2638.00
6	6724-060-S	$3625.00
6	6724-060-T	$3625.00
6	6724-060-F	$3153.00

Size (in.)	CPVC/EPDM soc/thr/flanged Part #	Price $
1/2	6725-005-S	$1621.00
1/2	6725-005-T	$1621.00
1/2	6725-005-F	$1296.00
3/4	6725-007-S	$1632.00
3/4	6725-007-T	$1632.00
3/4	6725-007-F	$1319.00
1	6725-010-S	$1647.00
1	6725-010-T	$1647.00
1	6725-010-F	$1376.00
1 1/4	6725-012-S	$1674.00
1 1/4	6725-012-T	$1674.00
1 1/4	6725-012-F	$1523.00
1 1/2	6725-015-S	$1694.00
1 1/2	6725-015-T	$1694.00
1 1/2	6725-015-F	$1602.00
2	6725-020-S	$1737.00
2	6725-020-T	$1737.00
2	6725-020-F	$1775.00
2 1/2	6725-025-S	$2550.00
2 1/2	6725-025-T	$2550.00
2 1/2	6725-025-F	$2342.00
3	6725-030-S	$2564.00
3	6725-030-T	$2564.00
3	6725-030-F	$2669.00
4	6725-040-S	$2897.00
4	6725-040-T	$2897.00
4	6725-040-F	$3695.00
6	6725-060-S	$4894.00
6	6725-060-T	$4894.00
6	6725-060-F	$4800.00

Size (in.)	CPVC/FKM soc/thr/flanged Part #	Price $
1/2	6726-005-S	$1624.00
1/2	6726-005-T	$1624.00
1/2	6726-005-F	$1307.00
3/4	6726-007-S	$1635.00
3/4	6726-007-T	$1635.00
3/4	6726-007-F	$1336.00
1	6726-010-S	$1650.00
1	6726-010-T	$1650.00
1	6726-010-F	$1397.00
1 1/4	6726-012-S	$1679.00
1 1/4	6726-012-T	$1679.00
1 1/4	6726-012-F	$1556.00
1 1/2	6726-015-S	$1700.00
1 1/2	6726-015-T	$1700.00
1 1/2	6726-015-F	$1622.00
2	6726-020-S	$1746.00
2	6726-020-T	$1746.00
2	6726-020-F	$1798.00
2 1/2	6726-025-S	$2578.00
2 1/2	6726-025-T	$2578.00
2 1/2	6726-025-F	$2450.00
3	6726-030-S	$2594.00
3	6726-030-T	$2594.00
3	6726-030-F	$2955.00
4	6726-040-S	$2948.00
4	6726-040-T	$2948.00
4	6726-040-F	$3808.00
6	6726-060-S	$5291.00
6	6726-060-T	$5291.00
6	6726-060-F	$4906.00

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Actuated Ball Valves

Asahi Electrically Actuated Ball Valves



Series 92



S = IPS Socket
DS = Din Socket
B = Butt fusion
T = Threaded
F = Flanged

Features

- Available in PVC, CPVC, PP, & PVDF
- 100% Duty Cycle • Cycle Time 10 sec.
- Sizes 1/2" to 4" • EPDM or FKM seals
- PVC & CPVC - Soc.,thr.,flanged
- PP & PVDF - IPS & Din Soc.,thr.,Butt, flanged • ISO bolt circle
- Brushless, capacitor-run motors
- Combination NEMA 4X, 7, & 9 enclosure w/thermally bonded epoxy powder coating w/stainless steel trim
- Two 1/2 NPT conduit ports prevent interference between control and power signals • Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights • Visible position indicator

Options

- Extra limits switches
- Feedback potentiometer
- Heater and thermostat (to -40°F)
- Positioner: 4-20 mA or 0-10 Vdc input
- 4-20 mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation
- Bus systems - Consult Sales Office
- 316 SS tagging
- Local / Remote Station

Electric Actuator Series 92:

- Motor Type: Reversing, 1/4 Turn Single phase
- Torque: 400 to 700 in-lbs
- Voltage: 120 Vac, 50/60 Hz
- Amp Draw: S92: .5 Amps A92: .80 Amps
- Max Ambient Temp: 150°F
- Switches: Two single pole, double throw (15 Amp rating)

Size (in.)	PP/EPDM Butt/soc/thr/flg Part #	Price $
1/2	6727-005-B	$1214.43
1/2	6727-005-DS	$1214.43
1/2	6727-005-S	$1214.43
1/2	6727-005-T	$1214.43
1/2	6727-005-F	$1292.03
3/4	6727-007-B	$1235.33
3/4	6727-007-DS	$1235.33
3/4	6727-007-S	$1235.33
3/4	6727-007-T	$1235.33
3/4	6727-007-F	$1317.86
1	6727-010-B	$1255.07
1	6727-010-DS	$1255.07
1	6727-010-S	$1255.07
1	6727-010-T	$1255.07
1	6727-010-F	$1372.04
1 1/4	6727-012-B	$1308.04
1 1/4	6727-012-DS	$1308.04
1 1/4	6727-012-S	$1308.04
1 1/4	6727-012-T	$1308.04
1 1/4	6727-012-F	$1578.99
1 1/2	6727-015-B	$1333.87
1 1/2	6727-015-DS	$1333.87
1 1/2	6727-015-S	$1333.87
1 1/2	6727-015-T	$1333.87
1 1/2	6727-015-F	$1751.40
2	6727-020-B	$1402.85
2	6727-020-DS	$1402.85
2	6727-020-S	$1402.85
2	6727-020-T	$1402.85
2	6727-020-F	$1751.40
2 1/2	6727-025-B	$2109.82
2 1/2	6727-025-DS	$2109.82
2 1/2	6727-025-S	$2109.82
2 1/2	6727-025-T	$2109.82
2 1/2	6727-025-F	$2374.63
3	6727-030-B	$2272.41
3	6727-030-DS	$2272.41
3	6727-030-S	$2272.41
3	6727-030-T	$2272.41
3	6727-030-F	$2692.41
4	6727-040-B	$2742.86
4	6727-040-DS	$2742.86
4	6727-040-S	$2742.86
4	6727-040-T	$2742.86
4	6727-040-F	$3218.30
6	-	-
6	-	-
6	-	-
6	-	-
6	6727-060-F	$8601.86

Size (in.)	PP/FKM Butt/soc/thr/flg Part #	Price $
1/2	6728-005-B	$1229.18
1/2	6728-005-DS	$1229.18
1/2	6728-005-S	$1229.18
1/2	6728-005-T	$1229.18
1/2	6728-005-F	$1314.18
3/4	6728-007-B	$1247.66
3/4	6728-007-DS	$1247.66
3/4	6728-007-S	$1247.66
3/4	6728-007-T	$1247.66
3/4	6728-007-F	$1346.21
1	6728-010-B	$1268.61
1	6728-010-DS	$1268.61
1	6728-010-S	$1268.61
1	6728-010-T	$1268.61
1	6728-010-F	$1405.32
1 1/4	6728-012-B	$1331.40
1 1/4	6728-012-DS	$1331.40
1 1/4	6728-012-S	$1331.40
1 1/4	6728-012-T	$1331.40
1 1/4	6728-012-F	$1640.57
1 1/2	6728-015-B	$1359.75
1 1/2	6728-015-DS	$1359.75
1 1/2	6728-015-S	$1359.75
1 1/2	6728-015-T	$1359.75
1 1/2	6728-015-F	$1835.14
2	6728-020-B	$1439.81
2	6728-020-DS	$1439.81
2	6728-020-S	$1439.81
2	6728-020-T	$1439.81
2	6728-020-F	$1835.14
2 1/2	6728-025-B	$2184.95
2 1/2	6728-025-DS	$2184.95
2 1/2	6728-025-S	$2184.95
2 1/2	6728-025-T	$2184.95
2 1/2	6728-025-F	$2485.46
3	6728-030-B	$2370.95
3	6728-030-DS	$2370.95
3	6728-030-S	$2370.95
3	6728-030-T	$2370.95
3	6728-030-F	$2843.87
4	6728-040-B	$2904.25
4	6728-040-DS	$2904.25
4	6728-040-S	$2904.25
4	6728-040-T	$2904.25
4	6728-040-F	$3443.69
6	-	-
6	-	-
6	-	-
6	-	-
6	6728-060-F	$9374.09

Size (in.)	PVDF/FKM Butt/soc/thr/flg Part #	Price $
1/2	6729-005-B	$1378.23
1/2	6729-005-DS	$1378.23
1/2	6729-005-S	$1378.23
1/2	6729-005-T	$1378.23
1/2	6729-005-F	$1638.11
3/4	6729-007-B	$1459.50
3/4	6729-007-DS	$1459.50
3/4	6729-007-S	$1459.50
3/4	6729-007-T	$1459.50
3/4	6729-007-F	$1778.49
1	6729-010-B	$1606.08
1	6729-010-DS	$1606.08
1	6729-010-S	$1606.08
1	6729-010-T	$1606.08
1	6729-010-F	$2038.37
1 1/4	6729-012-B	$1688.61
1 1/4	6729-012-DS	$1688.61
1 1/4	6729-012-S	$1688.61
1 1/4	6729-012-T	$1688.61
1 1/4	6729-012-F	$2202.17
1 1/2	6729-015-B	$1947.23
1 1/2	6729-015-DS	$1947.23
1 1/2	6729-015-S	$1947.23
1 1/2	6729-015-T	$1947.23
1 1/2	6729-015-F	$2454.69
2	6729-020-B	$2231.78
2	6729-020-DS	$2231.78
2	6729-020-S	$2231.78
2	6729-020-T	$2231.78
2	6729-020-F	$2931.34
2 1/2	6729-025-B	$3584.12
2 1/2	6729-025-DS	$3584.12
2 1/2	6729-025-S	$3584.12
2 1/2	6729-025-T	$3584.12
2 1/2	6729-025-F	$4607.61
3	6729-030-B	$4339.13
3	6729-030-DS	$4339.13
3	6729-030-S	$4339.13
3	6729-030-T	$4339.13
3	6729-030-F	$5474.70
4	6729-040-B	$8355.53
4	6729-040-DS	$8355.53
4	6729-040-S	$8355.53
4	6729-040-T	$8355.53
4	6729-040-F	$9066.17

Actuated Accessories

Asahi Electric Actuated Options

Series 94 - Electric Actuators



Torque: 150, 300 in-lbs
Voltage: 230/115/12/24 vac
12/24 vdc
Action: Quarter-turn
Indicator: Visual indication of valve position.
Declutchable manual override.

Quarter Master Actuator Series 94 for Ball Valves		
Size	Part #	Price
1/2"	2085005	$ 608.00
3/4"	2085007	608.00
1"	2085010	608.00
1 1/4"	2085012	608.00
1 1/2"	2085015	608.00
2"	2085020	608.00
2 1/2"	2085025	660.00
3"	2085030	660.00

Quarter Master Actuator Series 94 for Butterfly Valves		
Size	Part #	Price
1 1/2"	1793015	$ 614.00
2"	1793020	614.00
2 1/2"	1793025	614.00
3"	1793030	614.00
4"	1793040	719.00

Series 92 - Electric Actuators



Torque: 400, 700, 1100, 2000 in-lbs
Voltage: 230/115/12/24 vac
12/24 vdc
Action: Quarter-turn
Indicator: Visual beacon indication of valve position.
Limit switch contacts for light indication.
Declutchable manual override.

Chief Actuator Series 92 for Ball Valves		
Size	Part #	Price
1/2"	2001005	$ 988.00
3/4"	2001007	988.00
1"	2001010	988.00
1 1/4"	2001012	988.00
1 1/2"	2001015	988.00
2"	2001020	988.00
2 1/2"	2001025	1362.00
3"	2001030	1362.00
4"	2001040	1362.00

Chief Actuator * Series 92 for Butterfly Valves		
Size	Part #	Price
1 1/2"	1792015	$ 1013.00
2"	1792020	1013.00
2 1/2"	1792025	1013.00
3"	1792030	1013.00
4"	1792040	1013.00
5"	1792050	1401.00
6"	1792060	1401.00
8"	1792080	1515.00
10"	2109100	4382.00
12"	2109120	4382.00
14"	2109140	5122.00
16"	2109160	5379.00
18"	2109180	6082.00
20"	2109200	6082.00
24"	2109240	8910.00

* 10" and above are Series 10

Note: Prices do not include Valves. All prices do include Actuator and mounting hardware.

Options - Series 92 & 94			
	92 Part #	94 Part #	Price
Extra Limit Switch-	2126001	2126003	$ 72.00
Double Extra Limit Switch	2126002	2126004	137.00
Heater & Thermostat	2127001	2127001	137.00
Nema VII Explosion-Proof Housing [2]	Standard	N/A	
Feedback Potentiometer	2129001	2129003	213.00
4-20 mA Positioner		2130812	1110.00
Cycle Length Control	2131001	2131003	332.00
Mechanical Brake	2136001	2136001	224.00
2-Wire Control	2102001	2102008	157.00
Protek Failsafe Battery Pack [1]	2154000	2154001	858.00
ASI Bus Option	2407920	N/A	538.00
Local / Remote Station [2]	2190000	2190000	893.00
Voltages:			
12 VDC	2135749	2135749	130.00
24 VDC	2135750	2135750	130.00
12 VAC	2135751	2135751	130.00
24 VAC	2135752	2135752	130.00
220 VAC	2135753	2135753	172.00

1. Series 92 sizes 1/2" - 6", Series 94 sizes 1/2" - 3"
2. For open/close 120 vac units only all others consult factory.

Options - Series 83 - Electromni		
2 Position Indicating lights *	2101000	122.00
2-Wire Control	2102001	157.00
Extra Limit Switch	2103100	81.00
Voltages:		
12 VDC	2104749	52.00
24 VDC	2104750	52.00
12 VAC	2104751	122.00
24 VAC	2104752	122.00
220 VAC	2104753	163.00

* Must be Factory installed.

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Actuated Ball Valves

ASAHI Electromni® Electric Actuated Ball Valves



Features:

- PVC or CPVC Omni® Type-27 valve (all materials Type-21 or Type-23 ball valves up to 2")
- Standard models are 120 VAC thermally protected with single limit switch cam/coupling activated
- Sealed weatherproof enclosure includes:
  - Flanged cover and base Type 4X rated enclosure with Nitrile flat gasket seal
  - Nitrile O-ring or gasket valve to actuator base seal
  - Nitrile motor mounting bolt seals
  - NPT threaded to base 90º elbow provides 1/2" NPT conduit entry with 6" color coded wire leads
- Interated ISO mounting pattern baseplates
- Direct mounted valves - No mounting bracket required
- Sealed 90º cable entry elbow
- Captivated stainless steel hex head slotted cover screws
- Quarter-turn five second cycle time unidirectional (120 and 230 VAC) motors
- Quarter-turn five second cycle time for low voltage reversing motors (12 VDC, 24 VDC, 12/24 VAC 12/24 VDC)
- Compact and low profile, ideal for OEM type installations

Specifications:

- Motor Type: Unidirectional, Single phase
- Size: A83 1/2" - 2" valves
- Torque: 120 in-lbs.
- Voltage: 120 VAC, 50/60 Hz
- Amp Draw: 2.1 Amps
- Temp: Ambient Temp to 150° F
- Switches: One single pole, Double throw (15 Amp rating)
- Enclosures: Corrosion/Weather proof -Type 4X

Options:

- Voltages: 230 VAC, 12/24 VAC, 12/24 VDC
- Two-wire control relay for retrofitting solenoid (requires constant power and SPST dry contact switching)
- One additional limit switch for open/close position indication
- Amber/green position indicating lights

4

PVC / EPDM

Size (in.)	Socket #	Price $	Threaded #	Price $
3/8	172015003	298.00	172016003	298.00
1/2	172015005	298.00	172016005	298.00
3/4	172015007	306.00	172016007	306.00
1	172015010	312.00	172016010	312.00
1 1/4	172015012	321.00	172016012	321.00
1 1/2	172015015	333.00	172016015	333.00
2	172015020	346.00	172016020	346.00

CPVC / EPDM

Size (in.)	Socket #	Price $	Threaded #	Price $
3/8	172017003	304.00	172018003	304.00
1/2	172017005	304.00	172018005	304.00
3/4	172017007	316.00	172018007	316.00
1	172017010	330.00	172018010	330.00
1 1/4	172017012	348.00	172018012	348.00
1 1/2	172017015	358.00	172018015	358.00
2	172017020	387.00	172018020	387.00

Size (in.)	Cv Values
3/8	7.7
1/2	14
3/4	29
1	47
1 1/4	72
1 1/2	155
2	190

All prices subject to change without notice.

Actuated Ball Valves

HAYWARD® EA Series Automated True Union Ball Valves



EATB Series is a package unit of an EA actuator and a TB Series ball valve. The EA actuator is a 115 VAC full featured electric actuator with a TB Series PVC ball valve EPDM o-rings. Socket and threaded end connections come with the valve.

Valve Features:
- PVC
- EPDM Seals
- PTFE Seats
- Full Port Design
- Fully Serviceable
- Double O-Ring Stem Seals

Actuator Features:
- UL/CSA Listed Motor
- Thermoplastic NEMA 4/4X enclosure
- 2.5 Second, 90° Cycle Time
- Thermal Overload Protection
- Permanently Lubricated Gear Train
- Actuator Brake
- No Need for Manual Adjustments
- Blind Leads Connection
- Standard 120 VAC
- Unidirectional, Not Reversing

Materials:
- PVC Cell Class 12454 per ASTM D1784
- EPDM O-Ring Seals

Size (in.)	Cv Values
1/2	8.0
3/4	15.0
1	29.0
1 1/2	90.0
2	140.0

EA Series / EPDM Socket and Threaded

Size (in)	Part #	Price $
1/2	2727-005	335.50
3/4	2727-007	342.15
1	2727-010	352.05
1 1/2	2727-015	371.95
2	2727-020	390.40

NOTE: CPVC Cell Class 23447 per ASTM D1784 Available. POA (Price On Application)

HAYWARD® EAU Series Automated True Union Ball Valves



EAUTB Series is a package unit of an EAU actuator and a TB Series ball valve. The EAU actuator comes prewired with a terminal strip, and one auxiliary limit switch. Also includes a TB Series ball valve in PVC with FPM or EPDM o-rings. Socket and threaded end connections come with the valve.

Valve Features:
- PVC and CPVC
- FPM or EPDM Seals
- PTFE Seats
- Full Port Design
- Fully Serviceable
- Double O-Ring Stem Seals

Actuator Features:
- UL/CSA Listed Motor
- Thermoplastic NEMA 4/4X Enclosure
- 2.5 Second, 90° Cycle Time
- Permanently Lubricated Gear Train
- Actuator Brake
- 90 or 180° Operation
- Unidirectional, Not Reversing
- Terminal Block Connections
- Standard 120 VAC
- End of Travel Dry Contact Limit Switch
- Thermal Overload Protection
- Lightweight, Compact and Inexpensive

Materials:
- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM Seals

Size (in.)	Cv Values
1/2	8.0
3/4	15.0
1	29.0
1 1/2	90.0
2	140.0

EAU Series / PVC / EPDM Socket and Threaded

Size (in)	Part #	Price $
1/2	0121-005	451.95
3/4	0121-007	460.15
1	0121-010	476.80
1 1/2	0121-015	496.60
2	0121-020	534.95

EAU Series / PVC / FPM Socket and Threaded

Size (in)	Part #	Price $
1/2	0122-005	453.55
3/4	0122-007	463.65
1	0122-010	479.95
1 1/2	0122-015	500.15
2	0122-020	539.60

EAU Series / CPVC / EPDM Socket and Threaded

Size (in)	Part #	Price $
1/2	0125-005	483.45
3/4	0125-007	493.40
1	0125-010	521.45
1 1/2	0125-015	548.20
2	0125-020	601.25

EAU Series / CPVC / FPM Socket and Threaded

Size (in)	Part #	Price $
1/2	0126-005	485.00
3/4	0126-007	496.60
1	0126-010	526.45
1 1/2	0126-015	551.25
2	0126-020	607.90

NOTE: Sizes 2 1/2" - 4" Available. POA (Price On Application)

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Actuated Ball Valves

GF Type 180, 181, 182 Electrically Actuated Ball Valves



Designed to be modular, the 180 Series Electrically Actuated Ball Valve is adaptable to a variety of conditions and applications. The Type 180 Series, our premium actuated valve, is available in PVC, CPVC, Polypropylene, and PVDF materials. With the optional positioner, it goes from being a simple on/off valve to a precision flow control device, integrated into systems controlled by PLCs and other computerized instrumentation.

Actuator Features:

- Position feedback via relays (OPEN/CLOSE/MIDDLE)
- Heating element to prevent condensation
- Optical position indicator with LED status monitoring
- Third position between "OPEN" and "CLOSE" optional
- Relay output for "ready to operate"
- 7-segment error display
- Integrated emergency manual override with magnetic lock
- Robust PP-GF housing with very good chemical resistance
- Long service life due to robust design and superior electronics
- Flexible configuration thanks to modular concept
- Numerous monitoring and control options
- Easy handling
- Can be used anywhere thanks to universal power supply and standard interfaces

Manual Override Standard / 230 Volts

PVC / EPDM

Size (in.)	Socket Part #	Threaded Part #	Price $
3/8	4975-003-S	4975-003-T	1058.00
1/2	4975-005-S	4975-005-T	1059.00
3/4	4975-007-S	4975-007-T	1070.00
1	4975-010-S	4975-010-T	1091.00
1 1/4	4975-012-S	4975-012-T	1108.00
1 1/2	4975-015-S	4975-015-T	1139.00
2	4975-020-S	4975-020-T	1175.00

PVC / FPM

Size (in.)	Socket Part #	Threaded Part #	Price $
3/8	4976-003-S	4976-003-T	1067.00
1/2	4976-005-S	4976-005-T	1068.00
3/4	4976-007-S	4976-007-T	1084.00
1	4976-010-S	4976-010-T	1104.00
1 1/4	4976-012-S	4976-012-T	1129.00
1 1/2	4976-015-S	4976-015-T	1162.00
2	4976-020-S	4976-020-T	1211.00

CPVC / EPDM

Size (in.)	Socket Part #	Threaded Part #	Price $
3/8	4977-003-S	4977-003-T	1084.00
1/2	4977-005-S	4977-005-T	1098.00
3/4	4977-007-S	4977-007-T	1115.00
1	4977-010-S	4977-010-T	1137.00
1 1/4	4977-012-S	4977-012-T	1200.00
1 1/2	4977-015-S	4977-015-T	1242.00
2	4977-020-S	4977-020-T	1299.00

CPVC / FPM

Size (in.)	Socket Part #	Threaded Part #	Price $
3/8	4978-003-S	4978-003-T	1094.00
1/2	4978-005-S	4978-005-T	1104.00
3/4	4978-007-S	4978-007-T	1132.00
1	4978-010-S	4978-010-T	1168.00
1 1/4	4978-012-S	4978-012-T	1215.00
1 1/2	4978-015-S	4978-015-T	1286.00
2	4978-020-S	4978-020-T	1353.00

PP / EPDM

Size (in.)	Socket Fusion Part #	Price $	Threaded Part #	Price $
3/8	4979-003-SF	1076.00	4979-003-T	POA
1/2	4979-005-SF	1187.00	4979-005-T	POA
3/4	4979-007-SF	1207.00	4979-007-T	POA
1	4979-010-SF	1232.00	4979-010-T	POA
1 1/4	4979-012-SF	1148.00	4979-012-T	POA
1 1/2	4979-015-SF	1189.00	4979-015-T	POA
2	4979-020-SF	1232.00	4979-020-T	POA

PP / FPM

Size (in.)	Socket Fusion Part #	Price $	Threaded Part #	Price $
3/8	4980-003-SF	1094.00	4980-003-T	POA
1/2	4980-005-SF	1205.00	4980-005-T	POA
3/4	4980-007-SF	1224.00	4980-007-T	POA
1	4980-010-SF	1248.00	4980-010-T	POA
1 1/4	4980-012-SF	1176.00	4980-012-T	POA
1 1/2	4980-015-SF	1211.00	4980-015-T	POA
2	4980-020-SF	1288.00	4980-020-T	POA

PVDF / FPM

Size (in.)	Socket Fusion Part #	Price $
3/8	4981-003-SF	1260.00
1/2	4981-005-SF	1273.00
3/4	4981-007-SF	1327.00
1	4981-010-SF	1405.00
1 1/4	4981-012-SF	1511.00
1 1/2	4981-015-SF	1715.00
2	4981-020-SF	1966.00

S = Socket
T = Threaded
SF = Socket Fusion

24V available upon request

Actuated Ball Valves

GF Type 127 Electrically Actuated Ball Valves



The Type 127 Ball Valve offers operators several beneficial design features in a midrange actuation package. Including a heater, open/close feedback switches, solid state position sensing and LED optical position/fault indication. A 7-segment display clearly communicates specific actuator faults with either a letter or number so operators can quickly and easily identify an issue. It is ideal for a variety of applications and is a perfect fit where simple open/close operation is required. The Type 127 can be controlled with either 2-wire or 4-wire logic and has options for an internal or external fail-safe battery backup.

Features:
- Size Range: 3/8" - 2"
- Pressure Rating: 150 psi
- Connection: Socket, Threaded NPT, Flanged
- Voltage: 110-230V AC or 24V AC/DC
- Duty Cycle: 40%
- Materials: PVC, CPVC, or ABS
- Seals: EPDM or FPM
- Seat: PTFE

Advantages:
- Manual override on actuator
- Integrated heater
- Open/close feedback switches
- Full port
- 7-segment fault display
- LED reinforced position/status indicator
- Glass-filled PP actuator housing
- Push button end position adjustment
- NSF approval

Options:
- Internal fail-safe battery backup
- Fail-safe board powered by external battery bank
- Alternative end connection
- Alternative seal material
- Local control station

4

PVC & CPVC True Union Ball Valves - Type 127 with manual override - Socket or Female Pipe Thread

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
3/8	4900-003-S	521.00
3/8	4900-003-T	521.00
1/2	4900-005-S	524.00
1/2	4900-005-T	524.00
3/4	4900-007-S	531.00
3/4	4900-007-T	531.00
1	4900-010-S	539.00
1	4900-010-T	539.00
1 1/4	4900-012-S	555.00
1 1/4	4900-012-T	555.00
1 1/2	4900-015-S	562.00
1 1/2	4900-015-T	562.00
2	4900-020-S	590.00
2	4900-020-T	590.00

Size (in.)	PVC/FPM soc./thr. Part #	Price $
3/8	4901-003-S	531.00
3/8	4901-003-T	531.00
1/2	4901-005-S	531.00
1/2	4901-005-T	531.00
3/4	4901-007-S	539.00
3/4	4901-007-T	539.00
1	4901-010-S	550.00
1	4901-010-T	550.00
1 1/4	4901-012-S	567.00
1 1/4	4901-012-T	567.00
1 1/2	4901-015-S	584.00
1 1/2	4901-015-T	584.00
2	4901-020-S	614.00
2	4901-020-T	614.00

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
3/8	4902-003-S	542.00
3/8	4902-003-T	542.00
1/2	4902-005-S	543.00
1/2	4902-005-T	543.00
3/4	4902-007-S	554.00
3/4	4902-007-T	554.00
1	4902-010-S	570.00
1	4902-010-T	570.00
1 1/4	4902-012-S	590.00
1 1/4	4902-012-T	590.00
1 1/2	4902-015-S	610.00
1 1/2	4902-015-T	610.00
2	4902-020-S	638.00
2	4902-020-T	638.00

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
3/8	4903-003-S	547.00
3/8	4903-003-T	547.00
1/2	4903-005-S	550.00
1/2	4903-005-T	550.00
3/4	4903-007-S	562.00
3/4	4903-007-T	562.00
1	4903-010-S	580.00
1	4903-010-T	580.00
1 1/4	4903-012-S	608.00
1 1/4	4903-012-T	608.00
1 1/2	4903-015-S	631.00
1 1/2	4903-015-T	631.00
2	4903-020-S	674.00
2	4903-020-T	674.00

GF Type 546 Accessories and Component Parts



Electric Actuator - Type EA 11 with Manual Override

Description	Part #	Price
100-230 VAC	4918	407.00
24 VAC/DC	4919	407.00



Electric Actuator - Type EA 25

Description	Part #	Price
100-230 V, 50-60Hz	4982	859.00
24 VDC-AC, 50-60Hz	4983	859.00



Mounting Plate Type 56

Size (in.)	Part #	Price
3/8 - 1	4904	$ 4.00
1 1/4 - 2	4905	4.00



Multifunction Module Type 56 without Limit Switches

Size (in.)	Part #	Price
3/8 - 1/2	4906	$ 5.00
3/4 - 1	4907	5.00
1 1/4-1 1/2	4908	8.00
2	4909	9.00

Multifunction Module Type 56 Mechanical Limit Switches

Size (in.)	Part #	Price
3/8 - 1/2	4910-AG	$ 66.00
3/8 - 1/2	4910-AU	66.00
3/4 - 1	4911-AG	69.00
3/4 - 1	4911-AU	69.00
1 1/4-1 1/2	4912-AG	84.00
1 1/4-1 1/2	4912-AU	84.00
2	4913-AG	90.00
2	4913-AU	90.00



Multifunction Module Type 56 Inductive Limit Switches

Size (in.)	Part #	Price
3/8 - 1/2	4914-NPN	227.00
3/8 - 1/2	4914-PNP	227.00
3/4 - 1	4915-NPN	234.00
3/4 - 1	4915-PNP	234.00
1 1/4-1 1/2	4916-NPN	249.00
1 1/4-1 1/2	4916-PNP	249.00
2	4917-NPN	252.00
2	4917-PNP	252.00



Adapter Plate/Coupling for Type EA 11/25 Actuators

Size (in.)	Part #	Price
3/8 - 1/2	4920	$ 29.00
3/4 - 1	4921	29.00
1 1/4-1 1/2	4922	29.00
2	4923	29.00

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011519

Actuated Ball Valves

Plast-O-Matic Series EBVB / TEBVB Electrically Actuated Ball Valves



Series EBVB / TEBVB Specifications

Sizes	3/8" - 2" Valves		3" and 4"	
Actuator	EBVB2/TEBVB6	EBVB1/TEBVB5	EBVB4/TEBVB8	EBVB3/TEBVB7
Voltage AC (1ph) or DC)	12 - 24	85 - 240	12 - 24	85 - 240
Working Time - Sec. 0-90° (No Load) ±10%	5.5 / 11++	5.5 / 11++	16 /16**	14 /14**
Maximum Run Torque Nm / in./lbs.	20 / 177	20 / 177	55 / 487	55 / 487
Maximum Break Torque Nm / in./lbs.	25 / 221	25 / 221	60 / 531	60 / 531
On/Off Duty Rating %	75	75	75	75
*Modulating Duty Rating %	100	100	100	100
IP Rating - IEC 60529	IP67	IP67	IP67	IP67
Working Angle Standard	90/180	90/180	90	90
Temperature Range (F)	-4° to +158°	-4° to +158°	-4° to +158°	-4° to +158°
Motor Switch	2 x V3	2 x V3	2 x V3	2 x V3
Volt Free End of Travel Confirmation	2 x V3	2 x V3	2 x V3	2 x V3
Anti-Condensation Heater (W)	4	4	4	4
Current Full Load 12VDC 24VDC INRUSH CURRENT IS 3X THE STATED LOAD 24V/1ph 110V/1ph 240V/1ph	2.05A 1.05A m0.85A	 0.17A 0.09A	3.23A 1.44A 1.07A	 0.23A 0.12A
Weight (kg)	1.8	1.8	2.0	2.0
Drive	Double-D	Double-D	Double-D	Double-D

* Option 3 and 4 only. ** Based on 3-hole ball. ++11 seconds @ 180°

The EBVB features a rugged weatherproof and anti-corrosive polypro housing. A visual indicator shows whether the actuator is operating correctly, or has tripped out either by its electronic torque limiter, or has been left in 'manual' mode. Site operators are no longer left with the 'valve or actuator' question when an actuator does not respond to a signal.

The EBVB is quick and easy to install, with a double-D drive, allowing fast mounting to True-Blue valves. There is no need to remove the cover to connect the EBVB electrically, saving installation time. Using the external DIN plugs and external wiring diagrams supplied with the actuator, installation can be pre-wired.

Protection against valve jams is provided by an electronic torque limiter, which auto-relaxes the gearbox when activated, allowing the manual override to be selected to assist in clearing the jam. The effect of condensation is eliminated by an internal thermostatic anti-condensation heater that does not require a separate independent power supply.

Units are available with factory installed Fail-safe and modulating options. The modulating digital positioner offers auto-calibrating and self-resetting functions.

3-way Series TEBVB provides the same premium actuator features in 3/8″ through 2″ sizes with 2-hole or 3-hole ball in PVC or CPVC; 3″ & 4″ sizes with 2-hole ball in PVC, CPVC, Polypro or PVDF.

Approximate Flow Rates at 1.0 PSI Pressure Drop

Valve Sizes	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"
Cv Factor	10	20	40	80	100	120	485	768

Standard Features:

- Multi-voltage with auto-voltage sensing
  - 12-24V AC or DC
  - 85-240V AC or DC
- LED status light to indicate operational status of actuator
- Electronic over-torque protection against valve jam
- Thermostatic anti-condensation heater
- Easy-to-turn hand wheel for manual override
- Large, dome style visual position indicator
- Remote position indicator
- NEMA4/4X weatherproof anti-corrosive and UV protected glass filled polypro housing
- Easy mounting with double-D drive
- All external electrical connections via DIN plugs
- CE marked, IP67 ingress protection
- ISO 9000 manufacturer
- Fail-safe and 4-20mA digital positioner options
- Thermally protected motor

Other valve types, voltages, actuator options, materials, connections and configurations are available. Contact sales department for information at **1-800-849-3030**.

Plast-O-Matic Series EBVB / Standard Actuator / 85 - 240 Volts AC or DC

PVC / EPDM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4388-003-S	4388-003-T	795.00
1/2	4388-005-S	4388-005-T	806.00
3/4	4388-007-S	4388-007-T	821.00
1	4388-010-S	4388-010-T	827.00
1 1/4	4388-012-S	4388-012-T	879.00
1 1/2	4388-015-S	4388-015-T	900.00
2	4388-020-S	4388-020-T	926.00
3	4388-030-S	4388-030-T	1560.00
4	4388-040-S	4388-040-T	1827.00

PVC / FKM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4376-003-S	4376-003-T	797.00
1/2	4376-005-S	4376-005-T	808.00
3/4	4376-007-S	4376-007-T	823.00
1	4376-010-S	4376-010-T	829.00
1 1/4	4376-012-S	4376-012-T	882.00
1 1/2	4376-015-S	4376-015-T	903.00
2	4376-020-S	4376-020-T	929.00
3	4376-030-S	4376-030-T	1589.00
4	4376-040-S	4376-040-T	1839.00

CPVC / EPDM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4389-003-S	4389-003-T	826.00
1/2	4389-005-S	4389-005-T	831.00
3/4	4389-007-S	4389-007-T	841.00
1	4389-010-S	4389-010-T	873.00
1 1/4	4389-012-S	4389-012-T	913.00
1 1/2	4389-015-S	4389-015-T	965.00
2	4389-020-S	4389-020-T	1024.00
3	4389-030-S	4389-030-T	1556.00
4	4389-040-S	4389-040-T	2123.00

CPVC / FKM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4377-003-S	4377-003-T	828.00
1/2	4377-005-S	4377-005-T	833.00
3/4	4377-007-S	4377-007-T	843.00
1	4377-010-S	4377-010-T	875.00
1 1/4	4377-012-S	4377-012-T	916.00
1 1/2	4377-015-S	4377-015-T	968.00
2	4377-020-S	4377-020-T	1028.00
3	4377-030-S	4377-030-T	1577.00
4	4377-040-S	4377-040-T	2135.00

Actuated Ball Valves

Plast-O-Matic Series EBVB / Standard Actuator / 85 - 240 Volts AC or DC

PP / EPDM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4390-003-S	4390-003-T	805.00
1/2	4390-005-S	4390-005-T	816.00
3/4	4390-007-S	4390-007-T	828.00
1	4390-010-S	4390-010-T	848.00
1 1/4	4390-012-S	4390-012-T	889.00
1 1/2	4390-015-S	4390-015-T	920.00
2	4390-020-S	4390-020-T	962.00
3	4390-030-S	4390-030-T	1562.00
4	4390-040-S	4390-040-T	1994.00

PP / FKM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4378-003-S	4378-003-T	807.00
1/2	4378-005-S	4378-005-T	818.00
3/4	4378-007-S	4378-007-T	830.00
1	4378-010-S	4378-010-T	850.00
1 1/4	4378-012-S	4378-012-T	892.00
1 1/2	4378-015-S	4378-015-T	924.00
2	4378-020-S	4378-020-T	965.00
3	4378-030-S	4378-030-T	1589.00
4	4378-040-S	4378-040-T	2006.00

PVDF / EPDM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4391-003-S	4391-003-T	983.00
1/2	4391-005-S	4391-005-T	988.00
3/4	4391-007-S	4391-007-T	1013.00
1	4391-010-S	4391-010-T	1115.00
1 1/2	4391-015-S	4391-015-T	1469.00
2	4391-020-S	4391-020-T	1500.00

PVDF / FKM

Size (in)	Socket Part #	Threaded Part #	Price $
3/8	4379-003-S	4379-003-T	989.00
1/2	4379-005-S	4379-005-T	994.00
3/4	4379-007-S	4379-007-T	1020.00
1	4379-010-S	4379-010-T	1122.00
1 1/2	4379-015-S	4379-015-T	1502.00
2	4379-020-S	4379-020-T	1528.00
3	4379-030-S	4379-030-T	3379.00
4	4379-040-S	4379-040-T	5990.00

4

Plast-O-Matic Series EBVC / TEBVC Electrically Actuated Ball Valves



The EBVC/TEBVC features a rugged weatherproof and anti-corrosive polyamide housing. A visual indicator shows the position clearly. Selectable manual override and two volt free end of travel confirmation switches are also included as standard features.

The EBVC/TEBVC is quick and easy to install, with a double-D drive, allowing fast mounting to True-Blue valves. There is no need to remove the cover to connect the EBVC/TEBVC electrically, saving installation time. Using the external DIN plugs and external wiring diagrams supplied with the actuator, installation can be pre-wired.

Standard Features:

- Choice of voltage: 24V AC, 24V DC, 110V AC, 240V AC
- Ultra-fast working time
- Manual override for emergency hand operation
- 2 volt free end of travel confirmation switches
- Basic circuit board with replaceable fuses
- IP65 weatherproof anti-corrosive and UV protected housing
- Local visual position indicator
- Easy mounting with double-D drive
- All external electrical connections via DIN plugs
- CE marked

Options:

- Voltage: 110V, 240V, 24V DC, 24V AC
- Seals: EPDM, FKM
- Connection Types: NPT Thread, Socket, Flange, Spigot, Metric Spigot, Sanitary
- Materials: PVC, CPVC, Polypro, PVDF
- TEBVC: 3-way Models

Other valve types, voltages, actuator options, materials, connections and configurations are available. Contact sales department for information at **1-800-849-3030**.

Series EBVC Specifications

Sizes	3/8" - 2" Valves			
Actuator	EBVC01	EBVC02	EBVC03	EBVC04
Voltage	110 AC	220 AC	24 DC	24 AC
Working Time - Sec. 0-90° (No Load) ±10%	4.8	5.7	4.5	4.5
Maximum Run Torque Nm / in./lbs.	20/177	20/177	20/177	20/177
Maximum Break Torque Nm / in./lbs.	25/221	25/221	25/221	25/221
On/Off Duty Rating %	75	75	75	75
IP Rating - IEC 60529	IP65	IP65	IP65	IP65
Working Angle Standard	90	90	90	90
Temperature Range (F)	-4° to +158°	-4° to +158°	-4° to +158°	-4° to +158°
Volt Free End of Travel Confirmation	2 X SPDT	2 X SPDT	2 X SPDT	2 X SPDT
Current Full Load **INRUSH CURRENT IS 3X THE STATED LOAD**	0.36 AMP	0.49 AMP	24 VDC @ 1.02 AMP	24 VAC @ 1.38 AMP
Weight (kg)	3.9	3.9	3.9	3.9
Drive	Double-D	Double-D	Double-D	Double-D

Approximate Flow Rates at 1.0 PSI Pressure Drop

Valve Sizes	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Cv Factor	10	20	40	80	100	120

Plast-O-Matic Series EBVC / Standard Actuator / 110 Volts AC

PVC / EPDM

Size (in)	Socket Part #	Threaded Part #	Price $
1/2	4356-005-S	4356-005-T	418.00
3/4	4356-007-S	4356-007-T	429.00
1	4356-010-S	4356-010-T	454.00
1 1/4	4356-012-S	4356-012-T	463.00
1 1/2	4356-015-S	4356-015-T	492.00
2	4356-020-S	4356-020-T	512.00

PVC / FKM

Size (in)	Socket Part #	Threaded Part #	Price $
1/2	4357-005-S	4357-005-T	424.00
3/4	4357-007-S	4357-007-T	436.00
1	4357-010-S	4357-010-T	462.00
1 1/4	4357-012-S	4357-012-T	472.00
1 1/2	4357-015-S	4357-015-T	505.00
2	4357-020-S	4357-020-T	534.00

CPVC / EPDM

Size (in)	Socket Part #	Threaded Part #	Price $
1/2	4358-005-S	4358-005-T	444.00
3/4	4358-007-S	4358-007-T	466.00
1	4358-010-S	4358-010-T	508.00
1 1/4	4358-012-S	4358-012-T	547.00
1 1/2	4358-015-S	4358-015-T	601.00
2	4358-020-S	4358-020-T	663.00

CPVC / FKM

Size (in)	Socket Part #	Threaded Part #	Price $
1/2	4359-005-S	4359-005-T	449.00
3/4	4359-007-S	4359-007-T	466.00
1	4359-010-S	4359-010-T	513.00
1 1/4	4359-012-S	4359-012-T	551.00
1 1/2	4359-015-S	4359-015-T	605.00
2	4359-020-S	4359-020-T	668.00

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Actuated Ball Valves

Asahi Pneumatically Actuated Ball Valves

Series 79P



Features

- Available in PVC, CPVC, PP, & PVDF
- Standard actuator bodies glass-filled polyamide (highly corrosion resistant)
- Double piston, double rack and pinion design (polyamide)
- ISO mounting pattern with female square outdrive
- NAMUR mounting pattern
- Recommended air supply 80 psi to 120 psi (maximum) filtered air
- Concentric spring set (spring models only) for consistent output torque
- Available in air-to-air (double acting) and air-to-spring (spring return failsafe) models
- Position Indication through visible indicator knob and actuator shaft flats

Standard Features

- Manual override
  For A-A - Insert wrench onto flats of stem and rotate
  For A-S - Declutchable gear-operator is required

Options

- 316 SS and Aluminum bodies
- Flush mount NAMUR style solenoids
- NAMUR double limit switches
- Positioners in either 3-15 psi or 4-20mA for modulating service requiring no solenoid
- Bus systems

4

Air to Air

Size (in.)	PVC/EPDM soc/thr/flanged Part #	Price $
1/2	6732-005-S	$324.00
1/2	6732-005-T	$324.00
1/2	6732-005-F	$303.00
3/4	6732-007-S	$331.00
3/4	6732-007-T	$331.00
3/4	6732-007-F	$314.00
1	6732-010-S	$337.00
1	6732-010-T	$337.00
1	6732-010-F	$349.00
1 1/4	6732-012-S	$351.00
1 1/4	6732-012-T	$351.00
1 1/4	6732-012-F	$432.00
1 1/2	6732-015-S	$366.00
1 1/2	6732-015-T	$366.00
1 1/2	6732-015-F	$468.00
2	6732-020-S	$392.00
2	6732-020-T	$392.00
2	6732-020-F	$579.00
2 1/2	6732-025-S	$1062.00
2 1/2	6732-025-T	$1062.00
2 1/2	6732-025-F	$1094.00
3	6732-030-S	$1256.00
3	6732-030-T	$1256.00
3	6732-030-F	$1401.00
4	6732-040-S	$1582.00
4	6732-040-T	$1582.00
4	6732-040-F	$1946.00
6	6732-060-S	$2827.00
6	6732-060-T	$2827.00
6	6732-060-F	$2448.00

Size (in.)	PVC/FKM soc/thr/flanged Part #	Price $
1/2	6733-005-S	$326.00
1/2	6733-005-T	$326.00
1/2	6733-005-F	$317.00
3/4	6733-007-S	$336.00
3/4	6733-007-T	$336.00
3/4	6733-007-F	$324.00
1	6733-010-S	$343.00
1	6733-010-T	$343.00
1	6733-010-F	$364.00
1 1/4	6733-012-S	$361.00
1 1/4	6733-012-T	$361.00
1 1/4	6733-012-F	$463.00
1 1/2	6733-015-S	$375.00
1 1/2	6733-015-T	$375.00
1 1/2	6733-015-F	$482.00
2	6733-020-S	$401.00
2	6733-020-T	$401.00
2	6733-020-F	$594.00
2 1/2	6733-025-S	$1101.00
2 1/2	6733-025-T	$1101.00
2 1/2	6733-025-F	$1191.00
3	6733-030-S	$1295.00
3	6733-030-T	$1295.00
3	6733-030-F	$1476.00
4	6733-040-S	$1634.00
4	6733-040-T	$1634.00
4	6733-040-F	$2040.00
6	6733-060-S	$2996.00
6	6733-060-T	$2996.00
6	6733-060-F	$2539.00

Size (in.)	CPVC/EPDM soc/thr/flanged Part #	Price $
1/2	6734-005-S	$339.00
1/2	6734-005-T	$339.00
1/2	6734-005-F	$345.00
3/4	6734-007-S	$349.00
3/4	6734-007-T	$349.00
3/4	6734-007-F	$364.00
1	6734-010-S	$364.00
1	6734-010-T	$364.00
1	6734-010-F	$413.00
1 1/4	6734-012-S	$392.00
1 1/4	6734-012-T	$392.00
1 1/4	6734-012-F	$538.00
1 1/2	6734-015-S	$411.00
1 1/2	6734-015-T	$411.00
1 1/2	6734-015-F	$608.00
2	6734-020-S	$455.00
2	6734-020-T	$455.00
2	6734-020-F	$756.00
2 1/2	6734-025-S	$1294.00
2 1/2	6734-025-T	$1294.00
2 1/2	6734-025-F	$1266.00
3	6734-030-S	$1496.00
3	6734-030-T	$1496.00
3	6734-030-F	$1681.00
4	6734-040-S	$1983.00
4	6734-040-T	$1983.00
4	6734-040-F	$2672.00
6	6734-060-S	$3703.00
6	6734-060-T	$3703.00
6	6734-060-F	$3621.00

Size (in.)	CPVC/FKM soc/thr/flanged Part #	Price $
1/2	6735-005-S	$342.00
1/2	6735-005-T	$342.00
1/2	6735-005-F	$354.00
3/4	6735-007-S	$352.00
3/4	6735-007-T	$352.00
3/4	6735-007-F	$378.00
1	6735-010-S	$368.00
1	6735-010-T	$368.00
1	6735-010-F	$430.00
1 1/4	6735-012-S	$397.00
1 1/4	6735-012-T	$397.00
1 1/4	6735-012-F	$568.00
1 1/2	6735-015-S	$418.00
1 1/2	6735-015-T	$418.00
1 1/2	6735-015-F	$624.00
2	6735-020-S	$464.00
2	6735-020-T	$464.00
2	6735-020-F	$776.00
2 1/2	6735-025-S	$1322.00
2 1/2	6735-025-T	$1322.00
2 1/2	6735-025-F	$1359.00
3	6735-030-S	$1526.00
3	6735-030-T	$1526.00
3	6735-030-F	$1926.00
4	6735-040-S	$1994.00
4	6735-040-T	$2034.00
4	6735-040-F	$2034.00
6	6735-060-S	$4044.00
6	6735-060-T	$4044.00
6	6735-060-F	$3713.00

S = Socket
T = Threaded
F = Flanged

Actuated Ball Valves

Asahi Pneumatically Actuated Ball Valves

Series 79P



Features

- Available in PVC, CPVC, PP, & PVDF
- Standard actuator bodies glass-filled polyamide (highly corrosion resistant)
- Double piston, double rack and pinion design (polyamide)
- ISO mounting pattern with female square outdrive
- NAMUR mounting pattern
- Recommended air supply 80 psi to 120 psi (maximum) filtered air
- Concentric spring set (spring models only) for consistent output torque
- Available in air-to-air (double acting) and air-to-spring (spring return failsafe) models
- Position Indication through visible indicator knob and actuator shaft flats

Standard Features

- Manual override
  For A-A - Insert wrench onto flats of stem and rotate
  For A-S - Declutchable gear-operator is required

Options

- 316 SS and Aluminum bodies
- Flush mount NAMUR style solenoids
- NAMUR double limit switches
- Positioners in either 3-15 psi or 4-20mA for modulating service requiring no solenoid

4

S = IPS Socket
DS = Din Socket
B = Butt fusion
T = Threaded
F = Flanged

Air to Air

Size (in.)	PP/EPDM Butt/soc/thr/flg Part #	Price $
1/2	6736-005-B	$280.25
1/2	6736-005-DS	$280.25
1/2	6736-005-S	$280.25
1/2	6736-005-T	$280.25
1/2	6736-005-F	$348.43
3/4	6736-007-B	$298.69
3/4	6736-007-DS	$298.69
3/4	6736-007-S	$298.69
3/4	6736-007-T	$298.69
3/4	6736-007-F	$372.23
1	6736-010-B	$315.97
1	6736-010-DS	$315.97
1	6736-010-S	$315.97
1	6736-010-T	$315.97
1	6736-010-F	$418.77
1 1/4	6736-012-B	$362.51
1 1/4	6736-012-DS	$362.51
1 1/4	6736-012-S	$362.51
1 1/4	6736-012-T	$362.51
1 1/4	6736-012-F	$600.57
1 1/2	6736-015-B	$385.25
1 1/2	6736-015-DS	$385.25
1 1/2	6736-015-S	$385.25
1 1/2	6736-015-T	$385.25
1 1/2	6736-015-F	$752.08
2	6736-020-B	$445.83
2	6736-020-DS	$445.83
2	6736-020-S	$445.83
2	6736-020-T	$445.83
2	6736-020-F	$752.08
2 1/2	6736-025-B	$1085.37
2 1/2	6736-025-DS	$1085.37
2 1/2	6736-025-S	$1085.37
2 1/2	6736-025-T	$1085.37
2 1/2	6736-025-F	$1318.03
3	6736-030-B	$1364.58
3	6736-030-DS	$1364.58
3	6736-030-S	$1364.58
3	6736-030-T	$1364.58
3	6736-030-F	$1733.54
4	6736-040-B	$1888.30
4	6736-040-DS	$1888.30
4	6736-040-S	$1888.30
4	6736-040-T	$1888.30
4	6736-040-F	$2306.02
6	-	-
6	-	-
6	-	-
6	-	-
6	6736-060-F	$7035.92

Size (in.)	PP/FKM Butt/soc/thr/flg Part #	Price $
1/2	6737-005-B	$293.27
1/2	6737-005-DS	$293.27
1/2	6737-005-S	$293.27
1/2	6737-005-T	$293.27
1/2	6737-005-F	$367.92
3/4	6737-007-B	$309.51
3/4	6737-007-DS	$309.51
3/4	6737-007-S	$309.51
3/4	6737-007-T	$309.51
3/4	6737-007-F	$396.08
1	6737-010-B	$327.89
1	6737-010-DS	$327.89
1	6737-010-S	$327.89
1	6737-010-T	$327.89
1	6737-010-F	$447.98
1 1/4	6737-012-B	$383.05
1 1/4	6737-012-DS	$383.05
1 1/4	6737-012-S	$383.05
1 1/4	6737-012-T	$383.05
1 1/4	6737-012-F	$654.68
1 1/2	6737-015-B	$407.95
1 1/2	6737-015-DS	$407.95
1 1/2	6737-015-S	$407.95
1 1/2	6737-015-T	$407.95
1 1/2	6737-015-F	$825.67
2	6737-020-B	$478.29
2	6737-020-DS	$478.29
2	6737-020-S	$478.29
2	6737-020-T	$478.29
2	6737-020-F	$825.67
2 1/2	6737-025-B	$1151.36
2 1/2	6737-025-DS	$1151.36
2 1/2	6737-025-S	$1151.36
2 1/2	6737-025-T	$1151.36
2 1/2	6737-025-F	$1415.43
3	6737-030-B	$1451.15
3	6737-030-DS	$1451.15
3	6737-030-S	$1451.15
3	6737-030-T	$1451.15
3	6737-030-F	$1866.66
4	6737-040-B	$2030.08
4	6737-040-DS	$2030.08
4	6737-040-S	$2030.08
4	6737-040-T	$2030.08
4	6737-040-F	$2504.00
6	-	-
6	-	-
6	-	-
6	-	-
6	6737-060-F	$7714.40

Size (in.)	PVDF/FKM Butt/soc/thr/flg Part #	Price $
1/2	6738-005-B	$424.19
1/2	6738-005-DS	$424.19
1/2	6738-005-S	$424.19
1/2	6738-005-T	$424.19
1/2	6738-005-F	$652.53
3/4	6738-007-B	$495.63
3/4	6738-007-DS	$495.63
3/4	6738-007-S	$495.63
3/4	6738-007-T	$495.63
3/4	6738-007-F	$775.87
1	6738-010-B	$624.38
1	6738-010-DS	$624.38
1	6738-010-S	$624.38
1	6738-010-T	$624.38
1	6738-010-F	$1004.22
1 1/4	6738-012-B	$696.87
1 1/4	6738-012-DS	$696.87
1 1/4	6738-012-S	$696.87
1 1/4	6738-012-T	$696.87
1 1/2	6738-012-F	$1148.15
1 1/2	6738-015-B	$924.11
1 1/2	6738-015-DS	$924.11
1 1/2	6738-015-S	$924.11
1 1/2	6738-015-T	$924.11
1 1/2	6738-015-F	$1369.98
2	6738-020-B	$1174.10
2	6738-020-DS	$1174.10
2	6738-020-S	$1174.10
2	6738-020-T	$1174.10
2	6738-020-F	$1788.75
2 1/2	6738-025-B	$2380.66
2 1/2	6738-025-DS	$2380.66
2 1/2	6738-025-S	$2380.66
2 1/2	6738-025-T	$2380.66
2 1/2	6738-025-F	$3279.92
3	6738-030-B	$3180.32
3	6738-030-DS	$3180.32
3	6738-030-S	$3180.32
3	6738-030-T	$3180.32
3	6738-030-F	$4178.08
4	6738-040-B	$6819.50
4	6738-040-DS	$6819.50
4	6738-040-S	$6819.50
4	6738-040-T	$6819.50
4	6738-040-F	$7443.87

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Actuated Ball Valves

Asahi Pneumatically Actuated Ball Valves

Series 79P



Features

- Available in PVC, CPVC, PP, & PVDF
- Standard actuator bodies glass-filled polyamide (highly corrosion resistant)
- Double piston, double rack and pinion design (polyamide)
- ISO mounting pattern with female square outdrive
- NAMUR mounting pattern
- Recommended air supply 80 psi to 120 psi (maximum) filtered air
- Concentric spring set (spring models only) for consistent output torque
- Available in air-to-air (double acting) and air-to-spring (spring return failsafe) models
- Position Indication through visible indicator knob and actuator shaft flats

Standard Features

- Manual override
  For A-A - Insert wrench onto flats of stem and rotate
  For A-S - Declutchable gear-operator is required

Options

- 316 SS and Aluminum bodies
- Flush mount NAMUR style solenoids
- NAMUR double limit switches
- Positioners in either 3-15 psi or 4-20mA for modulating service requiring no solenoid
- Bus systems

4

Air to Spring

(Supplied Failsafe closed, must specify for Failsafe open)

Size (in.)	PVC/EPDM soc/thr/flanged Part #	Price $
1/2	6739-005-S	$342.00
1/2	6739-005-T	$342.00
1/2	6739-005-F	$316.00
3/4	6739-007-S	$349.00
3/4	6739-007-T	$349.00
3/4	6739-007-F	$327.00
1	6739-010-S	$355.00
1	6739-010-T	$355.00
1	6739-010-F	$363.00
1 1/4	6739-012-S	$584.00
1 1/4	6739-012-T	$584.00
1 1/4	6739-012-F	$599.00
1 1/2	6739-015-S	$598.00
1 1/2	6739-015-T	$598.00
1 1/2	6739-015-F	$635.00
2	6739-020-S	$763.00
2	6739-020-T	$763.00
2	6739-020-F	$845.00
2 1/2	6739-025-S	$1602.00
2 1/2	6739-025-T	$1602.00
2 1/2	6739-025-F	$1480.00
3	6739-030-S	$2068.00
3	6739-030-T	$2068.00
3	6739-030-F	$1981.00
4	6739-040-S	$2240.00
4	6739-040-T	$2240.00
4	6739-040-F	$2416.00
6	6739-060-S	$3297.00
6	6739-060-T	$3297.00
6	6739-060-F	$2918.00

Size (in.)	PVC/FKM soc/thr/flanged Part #	Price $
1/2	6740-005-S	$345.00
1/2	6740-005-T	$345.00
1/2	6740-005-F	$330.00
3/4	6740-007-S	$354.00
3/4	6740-007-T	$354.00
3/4	6740-007-F	$337.00
1	6740-010-S	$361.00
1	6740-010-T	$361.00
1	6740-010-F	$377.00
1 1/4	6740-012-S	$594.00
1 1/4	6740-012-T	$594.00
1 1/4	6740-012-F	$629.00
1 1/2	6740-015-S	$608.00
1 1/2	6740-015-T	$608.00
1 1/2	6740-015-F	$648.00
2	6740-020-S	$772.00
2	6740-020-T	$772.00
2	6740-020-F	$859.00
2 1/2	6740-025-S	$1641.00
2 1/2	6740-025-T	$1641.00
2 1/2	6740-025-F	$1577.00
3	6740-030-S	$2107.00
3	6740-030-T	$2107.00
3	6740-030-F	$2056.00
4	6740-040-S	$2292.00
4	6740-040-T	$2292.00
4	6740-040-F	$2510.00
6	6740-060-S	$3466.00
6	6740-060-T	$3466.00
6	6740-060-F	$3009.00

Size (in.)	CPVC/EPDM soc/thr/flanged Part #	Price $
1/2	6741-005-S	$357.00
1/2	6741-005-T	$357.00
1/2	6741-005-F	$358.00
3/4	6741-007-S	$368.00
3/4	6741-007-T	$368.00
3/4	6741-007-F	$377.00
1	6741-010-S	$382.00
1	6741-010-T	$382.00
1	6741-010-F	$426.00
1 1/4	6741-012-S	$624.00
1 1/4	6741-012-T	$624.00
1 1/4	6741-012-F	$704.00
1 1/2	6741-015-S	$644.00
1 1/2	6741-015-T	$644.00
1 1/2	6741-015-F	$774.00
2	6741-020-S	$826.00
2	6741-020-T	$826.00
2	6741-020-F	$1021.00
2 1/2	6741-025-S	$1834.00
2 1/2	6741-025-T	$1834.00
2 1/2	6741-025-F	$1652.00
3	6741-030-S	$2308.00
3	6741-030-T	$2308.00
3	6741-030-F	$2261.00
4	6741-040-S	$2641.00
4	6741-040-T	$2641.00
4	6741-040-F	$3142.00
6	6741-060-S	$4173.00
6	6741-060-T	$4173.00
6	6741-060-F	$4091.00

Size (in.)	CPVC/FKM soc/thr/flanged Part #	Price $
1/2	6742-005-S	$360.00
1/2	6742-005-T	$360.00
1/2	6742-005-F	$367.00
3/4	6742-007-S	$371.00
3/4	6742-007-T	$371.00
3/4	6742-007-F	$391.00
1	6742-010-S	$386.00
1	6742-010-T	$386.00
1	6742-010-F	$443.00
1 1/4	6742-012-S	$629.00
1 1/4	6742-012-T	$629.00
1 1/4	6742-012-F	$734.00
1 1/2	6742-015-S	$650.00
1 1/2	6742-015-T	$650.00
1 1/2	6742-015-F	$790.00
2	6742-020-S	$835.00
2	6742-020-T	$835.00
2	6742-020-F	$1041.00
2 1/2	6742-025-S	$1862.00
2 1/2	6742-025-T	$1862.00
2 1/2	6742-025-F	$1745.00
3	6742-030-S	$2338.00
3	6742-030-T	$2338.00
3	6742-030-F	$2506.00
4	6742-040-S	$2692.00
4	6742-040-T	$2692.00
4	6742-040-F	$3240.00
6	6742-060-S	$4514.00
6	6742-060-T	$4514.00
6	6742-060-F	$4183.00

S = Socket
T = Threaded
F = Flanged

Actuated Ball Valves

Asahi Pneumatically Actuated Ball Valves

Series 79P



Features

- Available in PVC, CPVC, PP, & PVDF
- Standard actuator bodies glass-filled polyamide (highly corrosion resistant)
- Double piston, double rack and pinion design (polyamide)
- ISO mounting pattern with female square outdrive
- NAMUR mounting pattern
- Recommended air supply 80 psi to 120 psi (maximum) filtered air
- Concentric spring set (spring models only) for consistent output torque
- Available in air-to-air (double acting) and air-to-spring (spring return failsafe) models
- Position Indication through visible indicator knob and actuator shaft flats

Standard Features

- Manual override
  For A-A - Insert wrench onto flats of stem and rotate
  For A-S - Declutchable gear-operator is required

Options

- 316 SS and Aluminum bodies
- Flush mount NAMUR style solenoids
- NAMUR double limit switches
- Positioners in either 3-15 psi or 4-20mA for modulating service requiring no solenoid

4

S = IPS Socket
DS = Din Socket
B = Butt fusion
T = Threaded
F = Flanged

Air to Spring

(Supplied Failsafe closed, must specify for Failsafe open)

Size (in.)	PP/EPDM Butt/soc/thr/flg Part #	Price $
1/2	6743-005-B	$294.32
1/2	6743-005-DS	$294.32
1/2	6743-005-S	$294.32
1/2	6743-005-T	$294.32
1/2	6743-005-F	$362.51
3/4	6743-007-B	$312.71
3/4	6743-007-DS	$312.71
3/4	6743-007-S	$312.71
3/4	6743-007-T	$312.71
3/4	6743-007-F	$386.30
1	6743-010-B	$330.04
1	6743-010-DS	$330.04
1	6743-010-S	$330.04
1	6743-010-T	$330.04
1	6743-010-F	$432.85
1 1/4	6743-012-B	$530.23
1 1/4	6743-012-DS	$530.23
1 1/4	6743-012-S	$530.23
1 1/4	6743-012-T	$530.23
1 1/4	6743-012-F	$768.31
1 1/2	6743-015-B	$552.99
1 1/2	6743-015-DS	$552.99
1 1/2	6743-015-S	$552.99
1 1/2	6743-015-T	$552.99
1 1/2	6743-015-F	$919.80
2	6743-020-B	$714.20
2	6743-020-DS	$714.20
2	6743-020-S	$714.20
2	6743-020-T	$714.20
2	6743-020-F	$1020.45
2 1/2	6743-025-B	$1475.99
2 1/2	6743-025-DS	$1475.99
2 1/2	6743-025-S	$1475.99
2 1/2	6743-025-T	$1475.99
2 1/2	6743-025-F	$1708.65
3	6743-030-B	$1949.97
3	6743-030-DS	$1949.97
3	6743-030-S	$1949.97
3	6743-030-T	$1949.97
3	6743-030-F	$2318.99
4	6743-040-B	$2363.33
4	6743-040-DS	$2363.33
4	6743-040-S	$2363.33
4	6743-040-T	$2363.33
4	6743-040-F	$2781.04
6	-	-
6	-	-
6	-	-
6	-	-
6	6743-060-F	$7511.01

Size (in.)	PP/FKM Butt/soc/thr/flg Part #	Price $
1/2	6744-005-B	$307.30
1/2	6744-005-DS	$307.30
1/2	6744-005-S	$307.30
1/2	6744-005-T	$307.30
1/2	6744-005-F	$382.00
3/4	6744-007-B	$323.53
3/4	6744-007-DS	$323.53
3/4	6744-007-S	$323.53
3/4	6744-007-T	$323.53
3/4	6744-007-F	$410.11
1	6744-010-B	$341.97
1	6744-010-DS	$341.97
1	6744-010-S	$341.97
1	6744-010-T	$341.97
1	6744-010-F	$462.06
1 1/4	6744-012-B	$550.78
1 1/4	6744-012-DS	$550.78
1 1/4	6744-012-S	$550.78
1 1/4	6744-012-T	$550.78
1 1/4	6744-012-F	$822.41
1 1/2	6744-015-B	$575.68
1 1/2	6744-015-DS	$575.68
1 1/2	6744-015-S	$575.68
1 1/2	6744-015-T	$575.68
1 1/2	6744-015-F	$993.39
2	6744-020-B	$745.72
2	6744-020-DS	$745.72
2	6744-020-S	$745.72
2	6744-020-T	$745.72
2	6744-020-F	$1094.05
2 1/2	6744-025-B	$1542.02
2 1/2	6744-025-DS	$1542.02
2 1/2	6744-025-S	$1542.02
2 1/2	6744-025-T	$1542.02
2 1/2	6744-025-F	$1806.03
3	6744-030-B	$2036.54
3	6744-030-DS	$2036.54
3	6744-030-S	$2036.54
3	6744-030-T	$2036.54
3	6744-030-F	$2452.10
4	6744-040-B	$2505.10
4	6744-040-DS	$2505.10
4	6744-040-S	$2505.10
4	6744-040-T	$2505.10
4	6744-040-F	$2979.08
6	-	-
6	-	-
6	-	-
6	-	-
6	6744-060-F	$8189.48

Size (in.)	PVDF/FKM Butt/soc/thr/flg Part #	Price $
1/2	6745-005-B	$438.26
1/2	6745-005-DS	$438.26
1/2	6745-005-S	$438.26
1/2	6745-005-T	$438.26
1/2	6745-005-F	$666.61
3/4	6745-007-B	$509.70
3/4	6745-007-DS	$509.70
3/4	6745-007-S	$509.70
3/4	6745-007-T	$509.70
3/4	6745-007-F	$789.95
1	6745-010-B	$638.45
1	6745-010-DS	$638.45
1	6745-010-S	$638.45
1	6745-010-T	$638.45
1	6745-010-F	$1018.30
1 1/4	6745-012-B	$864.59
1 1/4	6745-012-DS	$864.59
1 1/4	6745-012-S	$864.59
1 1/4	6745-012-T	$864.59
1 1/4	6745-012-F	$1315.88
1 1/2	6745-015-B	$1091.84
1 1/2	6745-015-DS	$1091.84
1 1/2	6745-015-S	$1091.84
1 1/2	6745-015-T	$1091.84
1 1/2	6745-015-F	$1537.71
2	6745-020-B	$1442.47
2	6745-020-DS	$1442.47
2	6745-020-S	$1442.47
2	6745-020-T	$1442.47
2	6745-020-F	$2057.13
2 1/2	6745-025-B	$2771.33
2 1/2	6745-025-DS	$2771.33
2 1/2	6745-025-S	$2771.33
2 1/2	6745-025-T	$2771.33
2 1/2	6745-025-F	$3670.54
3	6745-030-B	$3765.77
3	6745-030-DS	$3765.77
3	6745-030-S	$3765.77
3	6745-030-T	$3765.77
3	6745-030-F	$4763.47
4	6745-040-B	$7294.58
4	6745-040-DS	$7294.58
4	6745-040-S	$7294.58
4	6745-040-T	$7294.58
4	6745-040-F	$7918.95

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Actuated Accessories

Asahi Pneumatic Actuated Options

Series 79 - Pneumatic Actuators



Size: 1/2" - 24"
Torque: 46 in-lbs to 26696 in-lbs
Models: Air-to-air, Air-to-spring
Bodies: Glass filled polyamide, aluminum, 316 SS
Construction: Double piston, double rack/pinion
Indicator: Visual position indicator

Series 79 for Ball Valves

Size (In.)	Air-Air Part #	Price $	Air-Spring Part #	Price $
1/2"	2301005	$ 209.00	2302005	$ 222.00
3/4"	2301007	209.00	2302007	222.00
1"	2301010	209.00	2302010	222.00
1 1/4"	2301012	209.00	2302012	375.00
1 1/2"	2301015	209.00	2302015	375.00
2"	2301020	209.00	2302020	474.00
2 1/2"	2301025	602.00	2302025	988.00
3"	2301030	736.00	2302030	1316.00
4"	2301040	846.00	2302040	1316.00
6"	2301060	846.00	2302060	1316.00

Standard actuator supplied polyester glass filled. Air to spring actuators supplied Failsafe closed. For Failsafe open, please specify.
All prices include Actuator, Mounting Kit, Factory Assembly & Testing

Options for Ball Valves - Series 79

Positioner (No Solenoid):		
3 - 5 PSI For Air-Air	2412761	$ 1772.00
3 - 5 PSI For Air-Spring	2413762	1466.00
4 - 20 MA For Air-Air	2416762	1615.00
4 - 20 MA For Air-Spring	2416420	1615.00
ASI Bus Option:		
A79-E79 Air-Air, Air-Spring (2-way)	2407010	756.00
	-	-
Limit Switches: [1]		
NEMA IV, Double	2403779	371.00
NEMA VII, Double	2403780	544.00
Solenoids:		
NEMA IV, Plastic, 120 VAC	2401779	227.00
NEMA IV, Plastic, 120 VAC	2401780	472.00
Voltages: 12/24 VAC, VDC, 220 VAC	2415 [1]	59.00
Manual Override Gearbox		POA
Camstops (specify valve):		
AP79P	2433000	350.00
BP79P	2434000	350.00
CP79P	2435000	350.00
DP79P	2436000	350.00
Filter Regulator Gauge	2123000	176.00

Series 79 for Butterfly Valves

Size (In.)	Air-Air Part #	Price $	Air-Spring Part #	Price $
1 1/2"	1794015	472.00	1795015	675.00
2"	1794020	472.00	1795020	675.00
2 1/2"	1794025	472.00	1795025	701.00
3"	1794030	564.00	1795030	942.00
4"	1794040	564.00	1795040	942.00
5"	1794050	745.00	1795050	1347.00
6"	1794060	833.00	1795060	1347.00
8"	1794080	1487.00	1795080	2270.00
10"	1794100	1487.00	1795100	2270.00
12"	1794120	2249.00	1795120	5581.00
14"	1794140	2607.00	1795140	11611.00
16"	1794160	2607.00	1795160	11611.00

Air to spring actuators supplied Failsafe closed.
For Failsafe open, please specify.

Options for Butterfly Valves - Series 79

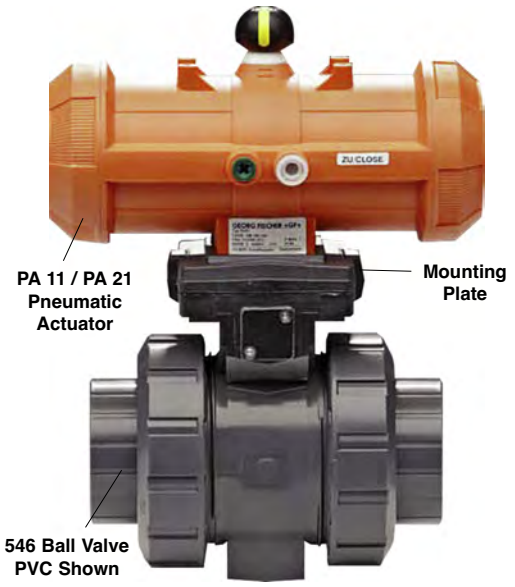
ASI-Bus Option:		
A79 - E79, Air-Air, Air-Spring (2way)	2407010	$ 756.00
F79 - G79, Air-Air, Air-Spring (2way)	2407040	785.00
Limit Switches:		
NEMA IV, Double	2403779	364.00
NEMA VII, Double	2403780	533.00
Solenoids:		
NEMA IV, Plastic, 120 VAC	2401779	220.00
NEMA VII, Plastic, 120 VAC	2401780	458.00
Volts: 12 VDC	2415749	68.00
24 VDC	2415750	68.00
12 VAC	2415751	68.00
24 VAC	2415752	68.00
220 VAC	2415753	68.00
Manual Override Gearbox		POA
Camstops:		
BP79P	2434000	252.00
CP79P	2435000	252.00
DP79P	2436000	252.00
E79P	2437000	224.00
F79P	2438000	224.00
Filter Regulator with Gauge	2123000	218.00

1. Specify voltage - see chart

Voltage Codes
12 VAC - 751
24 VAC - 752
220 VAC - 753
12 VDC - 749
24 VDC - 750

Actuated Ball Valves

GF Type 231, 232, 233 Pneumatically Actuated Ball Valves



The new pneumatic actuators PA 11 and PA 21

PA 11: For valve sizes 3/8" to 1"

PA 21: For valve sizes 1 1/4" to 2"

Features:

- Lightweight • Corrosion resistant • EPDM and FPM seals
- Maintenance free, 250,000 cycle life
- Available in PVC and CPVC in sizes 3/8" - 2"
- Available in PP and PVDF in sizes 3/8"/16mm - 2"/63mm
- Connections: PVC/CPVC (socket, threaded, flanged)
  PP/PVDF (metric socket, IR Plus®, threaded, flanged)

Comprehensive line of accessories:

- Optional manual override
- Multi-function housing with integrated limit switches
- Stroke limiter • Limit switches • Pilot valves

Versions:

- Fail safe to close • Fail safe to open • Double acting

4

Without Manual Override

Fail Safe Close

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
3/8	4924-003-S	416.00
3/8	4924-003-T	416.00
1/2	4924-005-S	417.00
1/2	4924-005-T	417.00
3/4	4924-007-S	425.00
3/4	4924-007-T	425.00
1	4924-010-S	433.00
1	4924-010-T	433.00
1 1/4	4924-012-S	508.00
1 1/4	4924-012-T	508.00
1 1/2	4924-015-S	516.00
1 1/2	4924-015-T	516.00
2	4924-020-S	554.00
2	4924-020-T	554.00

Double Acting

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
3/8	4926-003-S	388.00
3/8	4926-003-T	388.00
1/2	4926-005-S	388.00
1/2	4926-005-T	388.00
3/4	4926-007-S	393.00
3/4	4926-007-T	393.00
1	4926-010-S	407.00
1	4926-010-T	407.00
1 1/4	4926-012-S	465.00
1 1/4	4926-012-T	465.00
1 1/2	4926-015-S	470.00
1 1/2	4926-015-T	470.00
2	4926-020-S	512.00
2	4926-020-T	512.00

Fail Safe Close

Size (in.)	PVC/FPM soc./thr. Part #	Price $
3/8	4927-003-S	425.00
3/8	4927-003-T	425.00
1/2	4927-005-S	425.00
1/2	4927-005-T	425.00
3/4	4927-007-S	433.00
3/4	4927-007-T	433.00
1	4927-010-S	448.00
1	4927-010-T	448.00
1 1/4	4927-012-S	520.00
1 1/4	4927-012-T	520.00
1 1/2	4927-015-S	543.00
1 1/2	4927-015-T	543.00
2	4927-020-S	582.00
2	4927-020-T	582.00

Double Acting

Size (in.)	PVC/FPM soc./thr. Part #	Price $
3/8	4929-003-S	393.00
3/8	4929-003-T	393.00
1/2	4929-005-S	394.00
1/2	4929-005-T	394.00
3/4	4929-007-S	407.00
3/4	4929-007-T	407.00
1	4929-010-S	419.00
1	4929-010-T	419.00
1 1/4	4929-012-S	481.00
1 1/4	4929-012-T	481.00
1 1/2	4929-015-S	505.00
1 1/2	4929-015-T	505.00
2	4929-020-S	540.00
2	4929-020-T	540.00

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
3/8	4930-003-S	443.00
3/8	4930-003-T	443.00
1/2	4930-005-S	444.00
1/2	4930-005-T	444.00
3/4	4930-007-S	454.00
3/4	4930-007-T	454.00
1	4930-010-S	468.00
1	4930-010-T	468.00
1 1/4	4930-012-S	554.00
1 1/4	4930-012-T	554.00
1 1/2	4930-015-S	575.00
1 1/2	4930-015-T	575.00
2	4930-020-S	610.00
2	4930-020-T	610.00

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
3/8	4932-003-S	413.00
3/8	4932-003-T	413.00
1/2	4932-005-S	414.00
1/2	4932-005-T	414.00
3/4	4932-007-S	425.00
3/4	4932-007-T	425.00
1	4932-010-S	443.00
1	4932-010-T	443.00
1 1/4	4932-012-S	509.00
1 1/4	4932-012-T	509.00
1 1/2	4932-015-S	535.00
1 1/2	4932-015-T	535.00
2	4932-020-S	570.00
2	4932-020-T	570.00

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
3/8	4933-003-S	446.00
3/8	4933-003-T	446.00
1/2	4933-005-S	448.00
1/2	4933-005-T	448.00
3/4	4933-007-S	464.00
3/4	4933-007-T	464.00
1	4933-010-S	486.00
1	4933-010-T	486.00
1 1/4	4933-012-S	573.00
1 1/4	4933-012-T	573.00
1 1/2	4933-015-S	603.00
1 1/2	4933-015-T	603.00
2	4933-020-S	658.00
2	4933-020-T	658.00

Double Acting

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
3/8	4935-003-S	417.00
3/8	4935-003-T	417.00
1/2	4935-005-S	419.00
1/2	4935-005-T	419.00
3/4	4935-007-S	434.00
3/4	4935-007-T	434.00
1	4935-010-S	459.00
1	4935-010-T	459.00
1 1/4	4935-012-S	531.00
1 1/4	4935-012-T	531.00
1 1/2	4935-015-S	556.00
1 1/2	4935-015-T	556.00
2	4935-020-S	612.00
2	4935-020-T	612.00

Fail Safe Open also available upon request for the same price as Fail Safe Close.
Flanged end valves are available upon request.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011419

Actuated Ball Valves

GF Type 231, 232, 233 Pneumatically Actuated Without Manual Override

Fail Safe Close

Size (in.)	PP/EPDM Soc.fus./thr. Part #	Price $
3/8	4936-003-SF	415.00
3/8	4936-003-T	425.00
1/2	4936-005-SF	458.00
1/2	4936-005-T	426.00
3/4	4936-007-SF	468.00
3/4	4936-007-T	443.00
1	4936-010-SF	494.00
1	4936-010-T	465.00
1 1/4	4936-012-SF	524.00
1 1/4	4936-012-T	543.00
1 1/2	4936-015-SF	567.00
1 1/2	4936-015-T	587.00
2	4936-020-SF	609.00
2	4936-020-T	639.00

Size (in.)	PVDF/FPM Soc.fus./thr. Part #	Price $
3/8	4942-003-SF	557.00
3/8	4942-003-T	596.00
1/2	4942-005-SF	570.00
1/2	4942-005-T	616.00
3/4	4942-007-SF	621.00
3/4	4942-007-T	661.00
1	4942-010-SF	703.00
1	4942-010-T	749.00
1 1/4	4942-012-SF	852.00
1 1/4	4942-012-T	1033.00
1 1/2	4942-015-SF	1063.00
1 1/2	4942-015-T	1068.00
2	4942-020-SF	1309.00
2	4942-020-T	1328.00

Double Acting

Size (in.)	PP/EPDM Soc.fus./thr. Part #	Price $
3/8	4938-003-SF	417.00
3/8	4938-003-T	428.00
1/2	4938-005-SF	461.00
1/2	4938-005-T	430.00
3/4	4938-007-SF	474.00
3/4	4938-007-T	444.00
1	4938-010-SF	496.00
1	4938-010-T	466.00
1 1/4	4938-012-SF	524.00
1 1/4	4938-012-T	543.00
1 1/2	4938-015-SF	567.00
1 1/2	4938-015-T	587.00
2	4938-020-SF	609.00
2	4938-020-T	639.00

Size (in.)	PVDF/FPM Soc.fus./thr. Part #	Price $
3/8	4944-003-SF	558.00
3/8	4944-003-T	597.00
1/2	4944-005-SF	571.00
1/2	4944-005-T	617.00
3/4	4944-007-SF	622.00
3/4	4944-007-T	663.00
1	4944-010-SF	706.00
1	4944-010-T	750.00
1 1/4	4944-012-SF	852.00
1 1/4	4944-012-T	1033.00
1 1/2	4944-015-SF	1063.00
1 1/2	4944-015-T	1068.00
2	4944-020-SF	1309.00
2	4944-020-T	1328.00

Fail Safe Close

Size (in.)	PP/FPM Soc.fus./thr. Part #	Price $
3/8	4939-003-SF	425.00
3/8	4939-003-T	437.00
1/2	4939-005-SF	468.00
1/2	4939-005-T	448.00
3/4	4939-007-SF	488.00
3/4	4939-007-T	460.00
1	4939-010-SF	512.00
1	4939-010-T	490.00
1 1/4	4939-012-SF	554.00
1 1/4	4939-012-T	575.00
1 1/2	4939-015-SF	587.00
1 1/2	4939-015-T	619.00
2	4939-020-SF	663.00
2	4939-020-T	703.00

Double Acting

Size (in.)	PP/FPM Soc.fus./thr. Part #	Price $
3/8	4941-003-SF	428.00
3/8	4941-003-T	443.00
1/2	4941-005-SF	474.00
1/2	4941-005-T	450.00
3/4	4941-007-SF	489.00
3/4	4941-007-T	461.00
1	4941-010-SF	513.00
1	4941-010-T	492.00
1 1/4	4941-012-SF	554.00
1 1/4	4941-012-T	575.00
1 1/2	4941-015-SF	587.00
1 1/2	4941-015-T	619.00
2	4941-020-SF	663.00
2	4941-020-T	703.00

Fail Safe Open also available upon request for the same price as Fail Safe Close.
Flanged end valves are available upon request.



With Manual Override

Fail Safe Close

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
3/8	4945-003-S	543.00
3/8	4945-003-T	543.00
1/2	4945-005-S	546.00
1/2	4945-005-T	546.00
3/4	4945-007-S	554.00
3/4	4945-007-T	554.00
1	4945-010-S	564.00
1	4945-010-T	564.00
1 1/4	4945-012-S	638.00
1 1/4	4945-012-T	638.00
1 1/2	4945-015-S	645.00
1 1/2	4945-015-T	645.00
2	4945-020-S	680.00
2	4945-020-T	680.00

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
3/8	4951-003-S	571.00
3/8	4951-003-T	571.00
1/2	4951-005-S	572.00
1/2	4951-005-T	572.00
3/4	4951-007-S	582.00
3/4	4951-007-T	582.00
1	4951-010-S	602.00
1	4951-010-T	602.00
1 1/4	4951-012-S	680.00
1 1/4	4951-012-T	680.00
1 1/2	4951-015-S	706.00
1 1/2	4951-015-T	706.00
2	4951-020-S	739.00
2	4951-020-T	739.00

Double Acting

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
3/8	4947-003-S	516.00
3/8	4947-003-T	516.00
1/2	4947-005-S	517.00
1/2	4947-005-T	517.00
3/4	4947-007-S	524.00
3/4	4947-007-T	524.00
1	4947-010-S	536.00
1	4947-010-T	536.00
1 1/4	4947-012-S	593.00
1 1/4	4947-012-T	593.00
1 1/2	4947-015-S	607.00
1 1/2	4947-015-T	607.00
2	4947-020-S	639.00
2	4947-020-T	639.00

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
3/8	4953-003-S	541.00
3/8	4953-003-T	541.00
1/2	4953-005-S	542.00
1/2	4953-005-T	542.00
3/4	4953-007-S	554.00
3/4	4953-007-T	554.00
1	4953-010-S	571.00
1	4953-010-T	571.00
1 1/4	4953-012-S	639.00
1 1/4	4953-012-T	639.00
1 1/2	4953-015-S	661.00
1 1/2	4953-015-T	661.00
2	4953-020-S	697.00
2	4953-020-T	697.00

Fail Safe Close

Size (in.)	PVC/FPM soc./thr. Part #	Price $
3/8	4948-003-S	554.00
3/8	4948-003-T	554.00
1/2	4948-005-S	555.00
1/2	4948-005-T	555.00
3/4	4948-007-S	562.00
3/4	4948-007-T	562.00
1	4948-010-S	577.00
1	4948-010-T	577.00
1 1/4	4948-012-S	649.00
1 1/4	4948-012-T	649.00
1 1/2	4948-015-S	674.00
1 1/2	4948-015-T	674.00
2	4948-020-S	709.00
2	4948-020-T	709.00

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
3/8	4954-003-S	575.00
3/8	4954-003-T	575.00
1/2	4954-005-S	578.00
1/2	4954-005-T	578.00
3/4	4954-007-S	591.00
3/4	4954-007-T	591.00
1	4954-010-S	614.00
1	4954-010-T	614.00
1 1/4	4954-012-S	701.00
1 1/4	4954-012-T	701.00
1 1/2	4954-015-S	731.00
1 1/2	4954-015-T	731.00
2	4954-020-S	784.00
2	4954-020-T	784.00

Double Acting

Size (in.)	PVC/FPM soc./thr. Part #	Price $
3/8	4950-003-S	524.00
3/8	4950-003-T	524.00
1/2	4950-005-S	524.00
1/2	4950-005-T	524.00
3/4	4950-007-S	536.00
3/4	4950-007-T	536.00
1	4950-010-S	547.00
1	4950-010-T	547.00
1 1/4	4950-012-S	609.00
1 1/4	4950-012-T	609.00
1 1/2	4950-015-S	632.00
1 1/2	4950-015-T	632.00
2	4950-020-S	668.00
2	4950-020-T	668.00

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
3/8	4956-003-S	546.00
3/8	4956-003-T	546.00
1/2	4956-005-S	547.00
1/2	4956-005-T	547.00
3/4	4956-007-S	564.00
3/4	4956-007-T	564.00
1	4956-010-S	586.00
1	4956-010-T	586.00
1 1/4	4956-012-S	660.00
1 1/4	4956-012-T	660.00
1 1/2	4956-015-S	690.00
1 1/2	4956-015-T	690.00
2	4956-020-S	740.00
2	4956-020-T	740.00

Actuated Ball Valves & Accessories

GF Type 231, 232, 233 Pneumatically Actuated With Manual Override

Fail Safe Close

Size (in.)	PP/EPDM Soc.fus./thr. Part #	Price $
3/8	4957-003-SF	481.00
3/8	4957-003-T	519.00
1/2	4957-005-SF	553.00
1/2	4957-005-T	520.00
3/4	4957-007-SF	571.00
3/4	4957-007-T	535.00
1	4957-010-SF	592.00
1	4957-010-T	556.00
1 1/4	4957-012-SF	593.00
1 1/4	4957-012-T	629.00
1 1/2	4957-015-SF	659.00
1 1/2	4957-015-T	679.00
2	4957-020-SF	700.00
2	4957-020-T	732.00

Size (in.)	PVDF/FPM Soc.fus./thr. Part #	Price $
3/8	4963-003-SF	656.00
3/8	4963-003-T	694.00
1/2	4963-005-SF	667.00
1/2	4963-005-T	711.00
3/4	4963-007-SF	718.00
3/4	4963-007-T	753.00
1	4963-010-SF	799.00
1	4963-010-T	848.00
1 1/4	4963-012-SF	949.00
1 1/4	4963-012-T	1130.00
1 1/2	4963-015-SF	1157.00
1 1/2	4963-015-T	1162.00
2	4963-020-SF	1405.00
2	4963-020-T	1422.00

Double Acting

Size (in.)	PP/EPDM Soc.fus./thr. Part #	Price $
3/8	4959-003-SF	505.00
3/8	4959-003-T	521.00
1/2	4959-005-SF	554.00
1/2	4959-005-T	524.00
3/4	4959-007-SF	573.00
3/4	4959-007-T	538.00
1	4959-010-SF	593.00
1	4959-010-T	558.00
1 1/4	4959-012-SF	616.00
1 1/4	4959-012-T	637.00
1 1/2	4959-015-SF	659.00
1 1/2	4959-015-T	679.00
2	4959-020-SF	700.00
2	4959-020-T	732.00

Size (in.)	PVDF/FPM Soc.fus./thr. Part #	Price $
3/8	4965-003-SF	657.00
3/8	4965-003-T	695.00
1/2	4965-005-SF	668.00
1/2	4965-005-T	712.00
3/4	4965-007-SF	719.00
3/4	4965-007-T	757.00
1	4965-010-SF	801.00
1	4965-010-T	849.00
1 1/4	4965-012-SF	949.00
1 1/4	4965-012-T	1130.00
1 1/2	4965-015-SF	1157.00
1 1/2	4965-015-T	1162.00
2	4965-020-SF	1405.00
2	4965-020-T	1422.00

Fail Safe Close

Size (in.)	PP/FPM Soc.fus./thr. Part #	Price $
3/8	4960-003-SF	515.00
3/8	4960-003-T	535.00
1/2	4960-005-SF	570.00
1/2	4960-005-T	540.00
3/4	4960-007-SF	588.00
3/4	4960-007-T	551.00
1	4960-010-SF	614.00
1	4960-010-T	583.00
1 1/4	4960-012-SF	610.00
1 1/4	4960-012-T	649.00
1 1/2	4960-015-SF	679.00
1 1/2	4960-015-T	710.00
2	4960-020-SF	757.00
2	4960-020-T	796.00

Double Acting

Size (in.)	PP/FPM Soc.fus./thr. Part #	Price $
3/8	4962-003-SF	516.00
3/8	4962-003-T	539.00
1/2	4962-005-SF	571.00
1/2	4962-005-T	542.00
3/4	4962-007-SF	589.00
3/4	4962-007-T	554.00
1	4962-010-SF	616.00
1	4962-010-T	584.00
1 1/4	4962-012-SF	643.00
1 1/4	4962-012-T	667.00
1 1/2	4962-015-SF	679.00
1 1/2	4962-015-T	710.00
2	4962-020-SF	757.00
2	4962-020-T	796.00

Fail Safe Open also available upon request for the same price as Fail Safe Close.
Flanged end valves are available upon request.



GF Type 546 Accessories and Component Parts

Pneumatic Actuator - Type PA 11



Description	Part #	Price
Fail Close	4966	278.00
Fail Open	4967	278.00
Double Act.	4968	252.00

For use with Type 546 Ball Valve 3/8" - 1"

Pneumatic Actuator - Type PA 21



Description	Part #	Price
Fail Close	4969	330.00
Fail Open	4970	330.00
Double Act.	4971	290.00

For use with Type 546 Ball Valve 1 1/4" - 2"

Mounting Plate Type 56



Size (in.)	Part #	Price
3/8 - 1	4904	$ 4.00
1 1/4 - 2	4905	4.00

Declutchable Manual Override for Pneumatic Actuator



Size (in.)	Part #	Price
3/8 - 1	4972	$ 144.00
1 1/4 - 2	4973	144.00

Adapter Plate/ Coupling for Type EA 11 and Type PA 11/21 Actuators



Size (in.)	Part #	Price
3/8 - 1/2	4920	$ 29.00
3/4 - 1	4921	29.00
1 1/4-1 1/2	4922	29.00
2	4923	29.00

Multifunction Module Type 56 without Limit Switches



Size (in.)	Part #	Price
3/8 - 1/2	4906	$ 5.00
3/4 - 1	4907	5.00
1 1/4-1 1/2	4908	8.00
2	4909	9.00

Multifunction Module Type 56 Mechanical Limit Switches



Size (in.)	Part #	Price
3/8 - 1/2	4910-AG	$ 66.00
3/8 - 1/2	4910-AU	66.00
3/4 - 1	4911-AG	69.00
3/4 - 1	4911-AU	69.00
1 1/4-1 1/2	4912-AG	84.00
1 1/4-1 1/2	4912-AU	84.00
2	4913-AG	90.00
2	4913-AU	90.00

Multifunction Module Type 56 Inductive Limit Switches

Size (in.)	Part #	Price
3/8 - 1/2	4914-NPN	227.00
3/8 - 1/2	4914-PNP	227.00
3/4 - 1	4915-NPN	234.00
3/4 - 1	4915-PNP	234.00
1 1/4-1 1/2	4916-NPN	249.00
1 1/4-1 1/2	4916-PNP	249.00
2	4917-NPN	252.00
2	4917-PNP	252.00

Other accessories for the Type 546 Ball valve, such as handles, end connectors, union nuts, etc. are also available. Please contact Sales office for details.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011419

Actuated Ball Valves

Plast-O-Matic Pneumatically Actuated Ball Valves



Air Actuated Series ABV (1/2" to 1")

Features

- All plastic construction ideal for corrosive atmosphere. (Sizes 1/2", 3/4", & 1")
- Direct manual override standard
- Easy field attachment to ball valve
- Long cycle life - extensively tested
- ABVS converts easily between normally-open and normally-closed-operation
- Lightweight assembly - less piping stress and lower shipping weight
- Can be hydraulically actuated



Air Actuated Series ABR (1 1/4" to 2")

Features

- All plastic construction ideal for corrosive atmosphere. (Sizes: 1 1/4", 1 1/2" & 2")
- Manual override standard on ABRA & ABMS
- Easy field attachment to ball valve
- Long cycle life - extensively tested
- ABRS & ABMS can be converted between normally-closed & normally-open
- Lightweight assembly - less piping stress and lower shipping weight
- Can be hydraulically actuated

Air to Air - Manual Override Standard

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
1/2	4396-005-S	$337.00
1/2	4396-005-T	$337.00
3/4	4396-007-S	$376.00
3/4	4396-007-T	$376.00
1	4396-010-S	$381.00
1	4396-010-T	$381.00
1 1/4	4396-012-S	$489.00
1 1/4	4396-012-T	$489.00
1 1/2	4396-015-S	$507.00
1 1/2	4396-015-T	$507.00
2	4396-020-S	$529.00
2	4396-020-T	$529.00

Size (in.)	PVC/Fpm® soc./thr. Part #	Price $
1/2	4392-005-S	$339.00
1/2	4392-005-T	$339.00
3/4	4392-007-S	$378.00
3/4	4392-007-T	$378.00
1	4392-010-S	$383.00
1	4392-010-T	$383.00
1 1/4	4392-012-S	$492.00
1 1/4	4392-012-T	$492.00
1 1/2	4392-015-S	$510.00
1 1/2	4392-015-T	$510.00
2	4392-020-S	$532.00
2	4392-020-T	$532.00

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
1/2	4397-005-S	$356.00
1/2	4397-005-T	$356.00
3/4	4397-007-S	$392.00
3/4	4397-007-T	$392.00
1	4397-010-S	$418.00
1	4397-010-T	$418.00
1 1/4	4397-012-S	$515.00
1 1/4	4397-012-T	$515.00
1 1/2	4397-015-S	$560.00
1 1/2	4397-015-T	$560.00
2	4397-020-S	$610.00
2	4397-020-T	$610.00

Size (in.)	CPVC/Fpm® soc./thr. Part #	Price $
1/2	4393-005-S	$358.00
1/2	4393-005-T	$358.00
3/4	4393-007-S	$393.00
3/4	4393-007-T	$393.00
1	4393-010-S	$420.00
1	4393-010-T	$420.00
1 1/4	4393-012-S	$518.00
1 1/4	4393-012-T	$518.00
1 1/2	4393-015-S	$562.00
1 1/2	4393-015-T	$562.00
2	4393-020-S	$613.00
2	4393-020-T	$613.00

Size (in.)	PP/EPDM soc./thr. Part #	Price $
1/2	4398-005-S	$351.00
1/2	4398-005-T	$351.00
3/4	4398-007-S	$388.00
3/4	4398-007-T	$388.00
1	4398-010-S	$405.00
1	4398-010-T	$405.00
1 1/4	4398-012-S	$505.00
1 1/4	4398-012-T	$505.00
1 1/2	4398-015-S	$532.00
1 1/2	4398-015-T	$532.00
2	4398-020-S	$568.00
2	4398-020-T	$568.00

Size (in.)	PP/Fpm® soc./thr. Part #	Price $
1/2	4394-005-S	$353.00
1/2	4394-005-T	$353.00
3/4	4394-007-S	$390.00
3/4	4394-007-T	$390.00
1	4394-010-S	$407.00
1	4394-010-T	$407.00
1 1/4	4394-012-S	$508.00
1 1/4	4394-012-T	$508.00
1 1/2	4394-015-S	$535.00
1 1/2	4394-015-T	$535.00
2	4394-020-S	$571.00
2	4394-020-T	$571.00

Size (in.)	PVDF/EPDM soc./thr. Part #	Price $
1/2	4399-005-S	$449.00
1/2	4399-005-T	$449.00
3/4	4399-007-S	$497.00
3/4	4399-007-T	$497.00
1	4399-010-S	$579.00
1	4399-010-T	$579.00
-	-	-
-	-	-
1 1/2	4399-015-S	$874.00
1 1/2	4399-015-T	$874.00
2	4399-020-S	$1081.00
2	4399-020-T	$1081.00

Size (in.)	PVDF/Fpm® soc./thr. Part #	Price $
1/2	4395-005-S	$455.00
1/2	4395-005-T	$455.00
3/4	4395-007-S	$502.00
3/4	4395-007-T	$502.00
1	4395-010-S	$584.00
1	4395-010-T	$584.00
-	-	-
-	-	-
1 1/2	4395-015-S	$900.00
1 1/2	4395-015-T	$900.00
2	4395-020-S	$1107.00
2	4395-020-T	$1107.00

Actuated Ball Valves

Plast-O-Matic Pneumatically Actuated Ball Valves

Air to Spring *

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
1/2	4380-005-S	$410.00
1/2	4380-005-T	$410.00
3/4	4380-007-S	$459.00
3/4	4380-007-T	$459.00
1	4380-010-S	$464.00
1	4380-010-T	$464.00
1 1/4	4380-012-S	$651.00
1 1/4	4380-012-T	$651.00
1 1/2	4380-015-S	$669.00
1 1/2	4380-015-T	$669.00
2	4380-020-S	$691.00
2	4380-020-T	$691.00

Size (in.)	PVC/Fpm® soc./thr. Part #	Price $
1/2	4368-005-S	$412.00
1/2	4368-005-T	$412.00
3/4	4368-007-S	$461.00
3/4	4368-007-T	$461.00
1	4368-010-S	$466.00
1	4368-010-T	$466.00
1 1/4	4368-012-S	$654.00
1 1/4	4368-012-T	$654.00
1 1/2	4368-015-S	$672.00
1 1/2	4368-015-T	$672.00
2	4368-020-S	$694.00
2	4368-020-T	$694.00

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
1/2	4381-005-S	$429.00
1/2	4381-005-T	$429.00
3/4	4381-007-S	$474.00
3/4	4381-007-T	$474.00
1	4381-010-S	$500.00
1	4381-010-T	$500.00
1 1/4	4381-012-S	$677.00
1 1/4	4381-012-T	$677.00
1 1/2	4381-015-S	$721.00
1 1/2	4381-015-T	$721.00
2	4381-020-S	$772.00
2	4381-020-T	$772.00

Size (in.)	CPVC/Fpm® soc./thr. Part #	Price $
1/2	4369-005-S	$431.00
1/2	4369-005-T	$431.00
3/4	4369-007-S	$476.00
3/4	4369-007-T	$476.00
1	4369-010-S	$502.00
1	4369-010-T	$502.00
1 1/4	4369-012-S	$680.00
1 1/4	4369-012-T	$680.00
1 1/2	4369-015-S	$724.00
1 1/2	4369-015-T	$724.00
2	4369-020-S	$774.00
2	4369-020-T	$774.00

Size (in.)	PP/EPDM soc./thr. Part #	Price $
1/2	4382-005-S	$425.00
1/2	4382-005-T	$425.00
3/4	4382-007-S	$472.00
3/4	4382-007-T	$472.00
1	4382-010-S	$489.00
1	4382-010-T	$489.00
1 1/4	4382-012-S	$669.00
1 1/4	4382-012-T	$669.00
1 1/2	4382-015-S	$696.00
1 1/2	4382-015-T	$696.00
2	4382-020-S	$732.00
2	4382-020-T	$732.00

Size (in.)	PP/Fpm® soc./thr. Part #	Price $
1/2	4370-005-S	$426.00
1/2	4370-005-T	$426.00
3/4	4370-007-S	$473.00
3/4	4370-007-T	$473.00
1	4370-010-S	$491.00
1	4370-010-T	$491.00
1 1/4	4370-012-S	$671.00
1 1/4	4370-012-T	$671.00
1 1/2	4370-015-S	$699.00
1 1/2	4370-015-T	$699.00
2	4370-020-S	$735.00
2	4370-020-T	$735.00

Size (in.)	PVDF/EPDM soc./thr. Part #	Price $
1/2	4383-005-S	$522.00
1/2	4383-005-T	$522.00
3/4	4383-007-S	$579.00
3/4	4383-007-T	$579.00
1	4383-010-S	$661.00
1	4383-010-T	$661.00
-	-	-
-	-	-
1 1/2	4383-015-S	$1036.00
1 1/2	4383-015-T	$1036.00
2	4383-020-S	$1243.00
2	4383-020-T	$1243.00

Size (in.)	PVDF/Fpm® soc./thr. Part #	Price $
1/2	4371-005-S	$527.00
1/2	4371-005-T	$527.00
3/4	4371-007-S	$584.00
3/4	4371-007-T	$584.00
1	4371-010-S	$667.00
1	4371-010-T	$667.00
-	-	-
-	-	-
1 1/2	4371-015-S	$1062.00
1 1/2	4371-015-T	$1062.00
2	4371-020-S	$1268.00
2	4371-020-T	$1268.00

***Note: Manual Override is a Standard Feature on all Actuated Ball Valves except sizes 1 1/4", 1 1/2" and 2"**
For valves without manual override deduct $50.00 from the above prices in sizes 1 1/4", 1 1/2" and 2"

Pneumatic Actuators for 1/2" Ball Valves

Actuator Type	Model #	Price
Air x Air w/Manual Override	ABVA-1.2	306.00

Note: The above price is for the standard air x air actuator. Optional "add-on" kits are listed below and are for the accessories only and must be added to the price of the actuator if a complete unit is needed.

Air x Spring* (Add-On Kit)	ABVS-1.2	80.00
Limit Switch (Add-On Kit)	SW-1.2	268.00
Limit Stops (Add-On Kit)	ALS-1.2	36.00

*This is a Spring Kit that converts ABVA Actuator to Air x Spring.

Pneumatic Actuators for 3/4" and 1" Ball Valves

Actuator Type	Model #	Price
Air x Air w/Manual Override	ABVA-1.6	337.00

Note: The above price is for the standard air x air actuator. Optional "add-on" kits are listed below and are for the accessories only and must be added to the price of the actuator if a complete unit is needed.

Air x Spring* (Add-On Kit)	ABVS-1.6	92.00
Limit Switch (Add-On Kit)	SW-1.6	268.00
Limit Stops (Add-On Kit)	ALS-1.6	42.00

*This is a Spring Kit that converts ABVA Actuator to Air x Spring.

Pneumatic Actuators for 1 1/4", 1 1/2" & 2" Ball Valves

Accessory prices shown below include the actuator and cannot be ordered as "add-on" kits for these sizes.

AIR x AIR

Actuator Type	Model #	Price
with Manual Override	ABRA-2.5	411.00
with Limit Stop	ABRA-2.5-LS	447.00
with Limit Switch	ABRA-2.5-SW	664.00
with Limit Switch and Limit Stop	ABRA-2.5-LS-SW	701.00

AIR x SPRING

Actuator Type	Model #	Price
Air x Spring	ABRS-2.5	534.00
with Manual Override	ABMS-2.5	590.00
with Limit Stop	ABRS-2.5-LS	606.00
with Limit Switch	ABRS-2.5-SW	840.00
with Limit Switch and Limit Stop	ABRS-2.5-LS-SW	874.00

Actuated 3-Way Ball Valves

GF Type 185, 186, 187 Electrically Actuated Horizontal 3-Way Ball Valves*

Ball valves Type 185 - 187 are based on ball valve Type 543 (d16DN10 to d63DN50) and electric actuator EA 25. The Type range 185 - 187 is designed as modular upgradeable 3-Way ball valve for mixing and diverting applications which demand special process requirements.

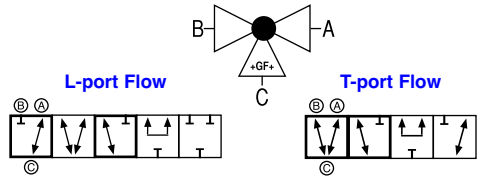


Actuator Features:
- Position feedback via relays (OPEN/CLOSE/MIDDLE)
- Heating element to prevent condensation
- Optical position indicator with LED status monitoring
- Third position between "OPEN" and "CLOSE" optional
- Relay output for "ready to operate"
- 7-segment error display
- Integrated emergency manual override with magnetic lock
- Robust PP-GF housing with very good chemical resistance
- Long service life due to robust design and superior electronics
- Flexible configuration thanks to modular concept
- Numerous monitoring and control options
- Easy handling
- Can be used anywhere thanks to universal power supply and standard interfaces

Model:
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with electric actuator EA25
- Voltage AC 100-230 V, 50-60 Hz, AC/DC 24 V, 50/60 Hz
- With manual emergency override
- Actuating angle Max. 355°, set to 90°
- Other positions possible by adjusting the limit switches
- Control time 5 s/90°<)
- Pressure rating: 150 PSI at water 68°F

Positions:
- L-Port: A-C opened, activated position B-C opened, see flow scheme
- T-Port: A-B-C opened, activated position B-C opened, see flow scheme

NOTE: *NIS (Not in System). Type 185, 186, 187 Electrically Actuated 3-Way Ball Valves are Not in System.
POA: Price On Application



Type 185 - PVC / L-port

PVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 382	199 185 362	POA
1/2	199 185 383	199 185 363	POA
3/4	199 185 384	199 185 364	POA
1	199 185 385	199 185 365	POA
1 1/4	199 185 386	199 185 366	POA
1 1/2	199 185 387	199 185 367	POA
2	199 185 388	199 185 368	POA

PVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 392	199 185 372	POA
1/2	199 185 393	199 185 373	POA
3/4	199 185 394	199 185 374	POA
1	199 185 395	199 185 375	POA
1 1/4	199 185 396	199 185 376	POA
1 1/2	199 185 397	199 185 377	POA
2	199 185 398	199 185 378	POA

Type 185 - PVC / T-port

PVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 422	199 185 402	POA
1/2	199 185 423	199 185 403	POA
3/4	199 185 424	199 185 404	POA
1	199 185 425	199 185 405	POA
1 1/4	199 185 426	199 185 406	POA
1 1/2	199 185 427	199 185 407	POA
2	199 185 428	199 185 408	POA

PVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 432	199 185 412	POA
1/2	199 185 433	199 185 413	POA
3/4	199 185 434	199 185 414	POA
1	199 185 435	199 185 415	POA
1 1/4	199 185 436	199 185 416	POA
1 1/2	199 185 437	199 185 417	POA
2	199 185 438	199 185 418	POA

Type 185 - CPVC / L-port

CPVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 462	199 185 442	POA
1/2	199 185 463	199 185 443	POA
3/4	199 185 464	199 185 444	POA
1	199 185 465	199 185 445	POA
1 1/4	199 185 466	199 185 446	POA
1 1/2	199 185 467	199 185 447	POA
2	199 185 468	199 185 448	POA

CPVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 472	199 185 452	POA
1/2	199 185 473	199 185 453	POA
3/4	199 185 474	199 185 454	POA
1	199 185 475	199 185 455	POA
1 1/4	199 185 476	199 185 456	POA
1 1/2	199 185 477	199 185 457	POA
2	199 185 478	199 185 458	POA

Type 185 - CPVC / T-port

CPVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 502	199 185 482	POA
1/2	199 185 503	199 185 483	POA
3/4	199 185 504	199 185 484	POA
1	199 185 505	199 185 485	POA
1 1/4	199 185 506	199 185 486	POA
1 1/2	199 185 507	199 185 487	POA
2	199 185 508	199 185 488	POA

CPVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 185 512	199 185 492	POA
1/2	199 185 513	199 185 493	POA
3/4	199 185 514	199 185 494	POA
1	199 185 515	199 185 495	POA
1 1/4	199 185 516	199 185 496	POA
1 1/2	199 185 517	199 185 497	POA
2	199 185 518	199 185 498	POA

Type 186 - PP / L-port / T-port

PP / EPDM

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 186 322	199 186 342	POA
1/2	199 186 323	199 186 343	POA
3/4	199 186 324	199 186 344	POA
1	199 186 325	199 186 345	POA
1 1/4	199 186 326	199 186 346	POA
1 1/2	199 186 327	199 186 347	POA
2	199 186 328	199 186 348	POA

PP / FPM

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 186 332	199 186 352	POA
1/2	199 186 333	199 186 353	POA
3/4	199 186 334	199 186 354	POA
1	199 186 335	199 186 355	POA
1 1/4	199 186 336	199 186 356	POA
1 1/2	199 186 337	199 186 357	POA
2	199 186 338	199 186 358	POA

Type 187 - PVDF / L-port / T-port

PVDF / FPM

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 187 242	199 187 252	POA
1/2	199 187 243	199 187 253	POA
3/4	199 187 244	199 187 254	POA
1	199 187 245	199 187 255	POA
1 1/4	199 187 246	199 187 256	POA
1 1/2	199 187 247	199 187 257	POA
2	199 187 248	199 187 258	POA

Actuated 3-Way Ball Valves

GF Type 285, 286, 287 Pneumatically Actuated Horizontal 3-Way Ball Valves*

Ball valves Type 285 - 287 are based on ball valve Type 543 (d16DN10 to d63DN50) and electric actuator EA25. The Type range 285 - 287 is designed as modular upgradeable 3-Way ball valve for mixing and diverting applications which demand special process requirements.



NOTE: *NIS (Not in System). Type 285, 286, 287 Pneumatically Actuated 3-Way Ball Valves are Not in System.
POA: Price On Application

Advantages:
- Pressure connector based on Namur standard
- Fast cycle time
- Optional with manual override
- Compact design
- For FC/FO stroke limitation possible

Model:
- For easy installation and removal
- Integrated stainless steel mounting inserts
- Built on with pneumatic actuator PA11 (DN10/15-25), PA21 (DN32-50)
- Actuator fails safe to the closed position FC
- Without manual override
- Control time 90°<) 1-3 s
- Pressure rating: 150 PSI at water 68°F

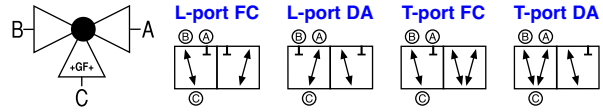
Flow Scheme

L-port Fail Safe:
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-C opened

L-port Double Acting:
- Basic position A-C opened, activated position B-C opened

T-port Fail Safe:
- Actuator fails safe to the closed position FC
- Basic position B-C opened, activated position A-B-C opened

T-port Double Acting:
- Basic position A-B-C opened, activated position B-C opened



Type 285 - PVC / L-port / Fail Safe Close

PVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 382	199 285 362	POA
1/2	199 285 383	199 285 363	POA
3/4	199 285 384	199 285 364	POA
1	199 285 385	199 285 365	POA
1 1/4	199 285 386	199 285 366	POA
1 1/2	199 285 387	199 285 367	POA
2	199 285 388	199 285 368	POA

PVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 392	199 285 372	POA
1/2	199 285 393	199 285 373	POA
3/4	199 285 394	199 285 374	POA
1	199 285 395	199 285 375	POA
1 1/4	199 285 396	199 285 376	POA
1 1/2	199 285 397	199 285 377	POA
2	199 285 398	199 285 378	POA

Type 285 - PVC / L-port / Double Acting

PVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 542	199 285 522	POA
1/2	199 285 543	199 285 523	POA
3/4	199 285 544	199 285 524	POA
1	199 285 545	199 285 525	POA
1 1/4	199 285 546	199 285 526	POA
1 1/2	199 285 547	199 285 527	POA
2	199 285 548	199 285 528	POA

PVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 552	199 285 532	POA
1/2	199 285 553	199 285 533	POA
3/4	199 285 554	199 285 534	POA
1	199 285 555	199 285 535	POA
1 1/4	199 285 556	199 285 536	POA
1 1/2	199 285 557	199 285 537	POA
2	199 285 558	199 285 538	POA

Type 285 - PVC / T-port / Fail Safe Close

PVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 422	199 285 402	POA
1/2	199 285 423	199 285 403	POA
3/4	199 285 424	199 285 404	POA
1	199 285 425	199 285 405	POA
1 1/4	199 285 426	199 285 406	POA
1 1/2	199 285 427	199 285 407	POA
2	199 285 428	199 285 408	POA

PVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 432	199 285 412	POA
1/2	199 285 433	199 285 413	POA
3/4	199 285 434	199 285 414	POA
1	199 285 435	199 285 415	POA
1 1/4	199 285 436	199 285 416	POA
1 1/2	199 285 437	199 285 417	POA
2	199 285 438	199 285 418	POA

Type 285 - PVC / T-port / Double Acting

PVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 582	199 285 562	POA
1/2	199 285 583	199 285 563	POA
3/4	199 285 584	199 285 564	POA
1	199 285 585	199 285 565	POA
1 1/4	199 285 586	199 285 566	POA
1 1/2	199 285 587	199 285 567	POA
2	199 285 588	199 285 568	POA

PVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 592	199 285 572	POA
1/2	199 285 593	199 285 573	POA
3/4	199 285 594	199 285 574	POA
1	199 285 595	199 285 575	POA
1 1/4	199 285 596	199 285 576	POA
1 1/2	199 285 597	199 285 577	POA
2	199 285 598	199 285 578	POA

Type 285 - CPVC / L-port / Fail Safe Close

CPVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 462	199 285 442	POA
1/2	199 285 463	199 285 443	POA
3/4	199 285 464	199 285 444	POA
1	199 285 465	199 285 445	POA
1 1/4	199 285 466	199 285 446	POA
1 1/2	199 285 467	199 285 447	POA
2	199 285 468	199 285 448	POA

CPVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 472	199 285 452	POA
1/2	199 285 473	199 285 453	POA
3/4	199 285 474	199 285 454	POA
1	199 285 475	199 285 455	POA
1 1/4	199 285 476	199 285 456	POA
1 1/2	199 285 477	199 285 457	POA
2	199 285 478	199 285 458	POA

Type 285 - CPVC / L-port / Double Acting

CPVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 942	199 285 922	POA
1/2	199 285 943	199 285 923	POA
3/4	199 285 944	199 285 924	POA
1	199 285 945	199 285 925	POA
1 1/4	199 285 946	199 285 926	POA
1 1/2	199 285 947	199 285 927	POA
2	199 285 948	199 285 928	POA

CPVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 952	199 285 932	POA
1/2	199 285 953	199 285 933	POA
3/4	199 285 954	199 285 934	POA
1	199 285 955	199 285 935	POA
1 1/4	199 285 956	199 285 936	POA
1 1/2	199 285 957	199 285 937	POA
2	199 285 958	199 285 938	POA

Type 285 - CPVC / T-port / Fail Safe Close

CPVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 502	199 285 482	POA
1/2	199 285 503	199 285 483	POA
3/4	199 285 504	199 285 484	POA
1	199 285 505	199 285 485	POA
1 1/4	199 285 506	199 285 486	POA
1 1/2	199 285 507	199 285 487	POA
2	199 285 508	199 285 488	POA

CPVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 512	199 285 492	POA
1/2	199 285 513	199 285 493	POA
3/4	199 285 514	199 285 494	POA
1	199 285 515	199 285 495	POA
1 1/4	199 285 516	199 285 496	POA
1 1/2	199 285 517	199 285 497	POA
2	199 285 518	199 285 498	POA

Type 285 - CPVC / T-port / Double Acting

CPVC / EPDM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 982	199 285 962	POA
1/2	199 285 983	199 285 963	POA
3/4	199 285 984	199 285 964	POA
1	199 285 985	199 285 965	POA
1 1/4	199 285 986	199 285 966	POA
1 1/2	199 285 987	199 285 967	POA
2	199 285 988	199 285 968	POA

CPVC / FPM

Size (in.)	Socket ASTM Part #	Threaded NPT Part #	Price $
3/8	199 285 992	199 285 972	POA
1/2	199 285 993	199 285 973	POA
3/4	199 285 994	199 285 974	POA
1	199 285 995	199 285 975	POA
1 1/4	199 285 996	199 285 976	POA
1 1/2	199 285 997	199 285 977	POA
2	199 285 998	199 285 978	POA

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Actuated 3-Way Ball Valves

GF Type 285, 286, 287 Pneumatically Actuated Horizontal 3-Way Ball Valves*

Type 286 - PP / L-port / T-port / Fail Safe Close

PP / EPDM

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 286 322	199 286 342	POA
1/2	199 286 323	199 286 343	POA
3/4	199 286 324	199 286 344	POA
1	199 286 325	199 286 345	POA
1 1/4	199 286 326	199 286 346	POA
1 1/2	199 286 327	199 286 347	POA
2	199 286 328	199 286 348	POA

PP / FPM

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 286 332	199 286 352	POA
1/2	199 286 333	199 286 353	POA
3/4	199 286 334	199 286 354	POA
1	199 286 335	199 286 355	POA
1 1/4	199 286 336	199 286 356	POA
1 1/2	199 286 337	199 286 357	POA
2	199 286 338	199 286 358	POA

Type 286 - PP / L-port / T-port / Double Acting

PP / EPDM

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 286 362	199 286 382	POA
1/2	199 286 363	199 286 383	POA
3/4	199 286 364	199 286 384	POA
1	199 286 365	199 286 385	POA
1 1/4	199 286 366	199 286 386	POA
1 1/2	199 286 367	199 286 387	POA
2	199 286 368	199 286 388	POA

PP / FPM

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 286 372	199 286 392	POA
1/2	199 286 373	199 286 393	POA
3/4	199 286 374	199 286 394	POA
1	199 286 375	199 286 395	POA
1 1/4	199 286 376	199 286 396	POA
1 1/2	199 286 377	199 286 397	POA
2	199 286 378	199 286 398	POA

Type 287 - PVDF / L-port / T-port / Fail Safe Close / Double Acting

PVDF / FPM / Fail Safe Close

Size (in.)	L-Port Thr. NPT Part #	Price $
3/8	199 287 242	POA
1/2	199 287 243	POA
3/4	199 287 244	POA
1	199 287 245	POA
1 1/4	199 287 246	POA
1 1/2	199 287 247	POA
2	199 287 248	POA

Size (in.)	T-Port Thr. NPT Part #	Price $
3/8	199 287 252	POA
1/2	199 287 253	POA
3/4	199 287 254	POA
1	199 287 255	POA
1 1/4	199 287 256	POA
1 1/2	199 287 257	POA
2	199 287 258	POA

PVDF / FPM / Double Acting

Size (in.)	L-Port Thr. NPT Part #	T-Port Thr. NPT Part #	Price $
3/8	199 287 262	199 287 272	POA
1/2	199 287 263	199 287 273	POA
3/4	199 287 264	199 287 274	POA
1	199 287 265	199 287 275	POA
1 1/4	199 287 266	199 287 276	POA
1 1/2	199 287 267	199 287 277	POA
2	199 287 268	199 287 278	POA

NOTE: *NIS (Not in System). Type 285, 286, 287 Pneumatically Actuated 3-Way Ball Valves are Not in System. **POA:** Price On Application

All prices subject to change without notice.

Banjo Electric Valves

Banjo Electric Valves - Threaded



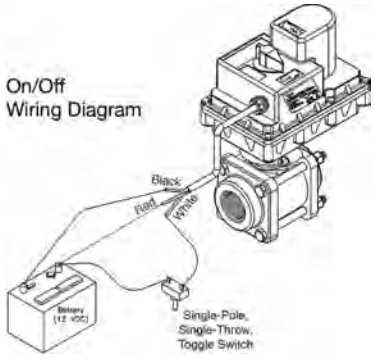
3/8" - 1/2" Valve Features:
- 12 Volt DC
- Stationary current draw: less than 0.04 amps
- Rotating current draw: less than 0.40 amps
- Stall current: 0.75 amps
- Response time: 1/3 sec open to close
- TFM seats
- EPDM seals
- Fiberglass reinforced polypropylene ball
- Integrated mounting slot
- Standard 3 wire configuration
- 200 PSI maximum pressure @ 70°F

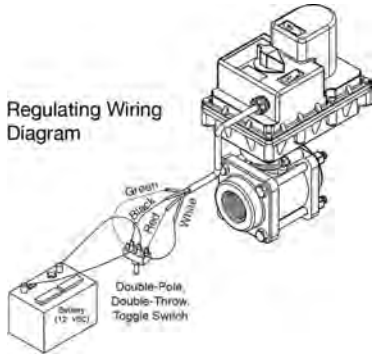


3/4" - 2" Valve Features:
- 316 stainless steel ball and stem
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- Glass reinforced PTFE seats
- FKM or EPDM O-rings
- 12-volt DC operated
- 24-volt available in most models
- Easily repairable
- Open/closed indicator
- 150 PSI maximum pressure @ 70°F



3" Valve Features:
- Stainless steel hardware
- Fiberglass reinforced polypropylene
- Glass reinforced PTFE seats
- FKM or EPDM O-rings
- 12-volt DC operated
- 100 PSI maximum pressure @ 70°F





3/8" - 1/2" Valves

On/Off Electric Valves - 1/3 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3/8" Full Port Electric Valve	200	3/8"	1"	LEV038	136.88
1/2" Electric Valve	200	15/32"	1"	LEV050	136.88

3/4" - 1 1/4" Valves

On/Off Electric Valves - 3/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3/4" Full Port Electric Valve	150	3/4"	1"	EV075	359.85
1" Full Port Electric Valve	150	1"	1"	EV100FP	359.85
1 1/4" Electric Valve	150	1 1/4"	1"	EV125	359.85

Regulating Electric Valves - 4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3/4" Full Port Electric Valve	150	3/4"	1"	EVR075	498.19
1" Full Port Electric Valve	150	1"	1"	EVR100FP	498.19
1 1/4" Electric Valve	150	1 1/4"	1"	EVR125	597.83

1 1/2" - 2" Valves

On/Off Electric Valves - 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1 1/2" Electric Valve	150	1 1/2"	1 1/2"	EV150	527.49
2" Electric Valve	150	2"	1 1/2"	EV200	527.49

Regulating Electric Valves - 4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1 1/2" Electric Valve	150	1 1/2"	1 1/2"	EVR150	627.13
2" Electric Valve	150	2"	1 1/2"	EVR200	605.92

2" Full Port Valves

On/Off Electric Valves - 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" Full Port Electric Valve	150	2"	2"	EV204FP	662.28

Regulating Electric Valves - 4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" Full Port Electric Valve	150	2"	2"	EVR204FP	627.34

3" Full Port Valve

On/Off Electric Valves - 3 Second Response Time 3 Wire

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3" Full Port Electric Valve	100	3"	3"	EV300FP	1518.28

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Banjo Electric Valves

Banjo 3-Way Electric Valves - Threaded with Flanged Inlet

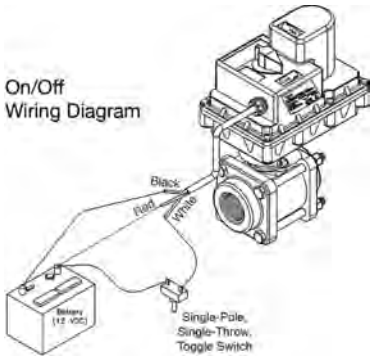


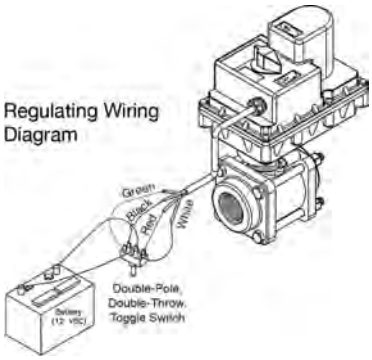
BOTTOM LOAD:
Directional flow right or left.
Valve flow cannot be turned off.



SIDE LOAD:
Directional flow right or left.
Valve flow cannot be turned off.

Features:
- 316 stainless steel ball & stem.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM or EPDM O-rings.
- 24-volt available in most models.
- 12-volt DC operated.
- 150 P.S.I. maximum pressure @ 70°F.
- Easily repairable.
- Open/closed indicator.





Bottom Load Valves

3/4" - 1 1/4" Electric Valves - 3/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3/4" Full Port Electric Valve	150	3/4"	1"	EV075BL	404.40
1" Electric Valve	150	1"	1"	EV100BL	404.40
1 1/4" Electric Valve	150	1 1/4"	1"	EV125BL	404.40

1 1/2" - 2" Electric Valves - 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1 1/2" Electric Valve	150	1 1/2"	1 1/2"	EV150BL	583.75
2" Electric Valve	150	2"	1 1/2"	EV200BL	583.75

2" Full Port Electric Valves - 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" Full Port Electric Valve	150	2"	2"	EV204BLFP	627.13

Side Load Valves

3/4" - 1 1/4" Electric Valves - 3/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3/4" Full Port Electric Valve	150	3/4"	1"	EV075SL	404.40
1" Electric Valve	150	1"	1"	EV100SL	404.40
1 1/4" Electric Valve	150	1 1/4"	1"	EV125SL	404.40

1 1/2" - 2" Electric Valves - 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1 1/2" Electric Valve	150	1 1/2"	1 1/2"	EV150SL	583.75
2" Electric Valve	150	2"	1 1/2"	EV200SL	583.75

2" Full Port Electric Valves - 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" Full Port Electric Valve	150	2"	2"	EV204SLFP	627.13

All prices subject to change without notice.

Check Valves

FEATURES:

- Available in PVC, CPVC, & PPL with EPDM or FPM seals in sizes 1/4" through 6".
- 150 PSI @ 70°F, non-shock
- This valve prevents reversal of flow in pipe.
- Line pressure unseats the ball to open the valve. When inlet flow ceases, the back pressure seats the ball on a special square cut elastomer seat, thus stopping back flow.
- 1/4" and 3/8" are not True Union due to compact design but are fully repairable.
- 1/2" - 6" Safe Block Design
- Square cut seating ring
- CPVC is Corzan™
- Ideal for horizontal or vertical installation
- Seats with minimum back pressure
- Free floating ball never seats in same position
- Full port 4" Check Valve for greater flow with minimum pressure loss

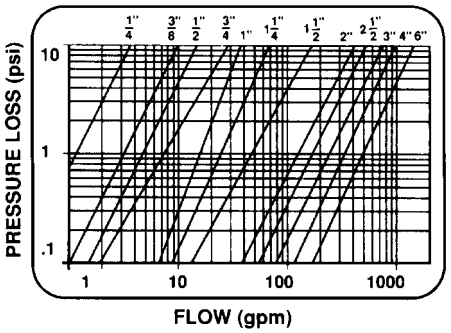
Ball Check Valves

1/4" through 6"



HAYWARD

Note: Check Valves should be installed a minimum of 10 pipe diameters away from the pump.



4

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/4	-	-
1/4	-	-
3/8	1401-003-S	$37.41
3/8	1401-003-T	$37.41
1/2	1401-005	$36.97
3/4	1401-007	$42.04
1	1401-010	$53.02
1 1/4	1401-012	$85.82
1 1/2	1401-015	$85.82
2	1401-020	$120.81
2 1/2	1401-025-S	$283.69
2 1/2	1401-025-T	$283.69
3	1401-030-S	$292.22
3	1401-030-T	$292.22
4	1401-040-S	$587.10
4	1401-040-T	$587.10

Size (in.)*	PVC/FPM* soc./thr. Part #	Price $
1/4◊	1402-002-S	$36.97
1/4◊	1402-002-T	$36.97
3/8◊	1402-003-S	$36.97
3/8◊	1402-003-T	$36.97
1/2	1402-005	$42.04
3/4	1402-007	$47.02
1	1402-010	$59.76
1 1/4	1402-012	$98.98
1 1/2	1402-015	$98.98
2	1402-020	$132.66
2 1/2	1402-025-S	$301.55
2 1/2	1402-025-T	$301.55
3	1402-030-S	$309.26
3	1402-030-T	$309.26
4	1402-040-S	$608.93
4	1402-040-T	$608.93

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/4	-	-
1/4	-	-
3/8	-	-
3/8	-	-
1/2	1411-005	$60.82
3/4	1411-007	$70.10
1	1411-010	$87.82
1 1/4	1411-012	$149.41
1 1/2	1411-015	$149.41
2	1411-020	$197.49
2 1/2	1411-025-S	$470.47
2 1/2	1411-025-T	$470.47
3	1411-030-S	$470.47
3	1411-030-T	$470.47
4	1411-040-S	$1021.29
4	1411-040-T	$1021.29

Size (in.)*	CPVC/FPM* soc./thr. Part #	Price $
1/4	-	-
1/4	-	-
3/8	-	-
3/8	-	-
1/2	1404-005	$66.69
3/4	1404-007	$78.54
1	1404-010	$94.52
1 1/4	1404-012	$163.72
1 1/2	1404-015	$163.72
2	1404-020	$218.60
2 1/2	1404-025-S	$552.04
2 1/2	1404-025-T	$552.04
3	1404-030-S	$569.38
3	1404-030-T	$569.38
4	1404-040-S	$1147.43
4	1404-040-T	$1147.43

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	1409-005	$76.45
3/4	1409-007	$90.62
1	1409-010	$117.45
1 1/4	1409-012	$196.34
1 1/2	1409-015	$217.30
2	1409-020	$239.98
2 1/2	1409-025	$472.80
3	1409-030	$594.64
4	1409-040	$935.28
6**	1409-060	$1262.07

Size (in.)	PVC/FPM* flanged Part #	Price $
1/2	1403-005	$101.61
3/4	1403-007	$115.78
1	1403-010	$148.54
1 1/4	1403-012	$246.70
1 1/2	1403-015	$276.10
2	1403-020	$255.96
2 1/2	1403-025	$515.97
3	1403-030	$625.90
4	1403-040	$966.13
6**	1403-060	$1304.06

Size (in.)	CPVC/EPDM flanged Part #	Price $
1/2	1422-005	$103.82
3/4	1422-007	$119.87
1	1422-010	$154.47
1 1/4	1422-012	$288.53
1 1/2	1422-015	$322.21
2	1422-020	$395.79
2 1/2	1422-025	$719.22
3	1422-030	$842.15
4	1422-040	$1513.09
6**	1422-060	$2042.62

Size (in.)	CPVC/FPM* flanged Part #	Price $
1/2	1423-005	$129.13
3/4	1423-007	$149.41
1	1423-010	$186.52
1 1/4	1423-012	$302.87
1 1/2	1423-015	$339.22
2	1423-020	$447.39
2 1/2	1423-025	$735.24
3	1423-030	$1010.08
4	1423-040	$1699.45
6**	1423-060	$2293.25

Size (in.)	PPL/FPM* thr. Part #	Price $
1/2	1405-005-T	$92.12
3/4	1405-007-T	$111.20
1	1405-010-T	$131.18
-	-	-
1 1/2	1405-015-T	$218.93
2	1405-020-T	$294.29



Picture shown with foot valve screen installed. Pricing is for screen only. Valves and screens are sold separately.



Size (in.)	PVC Foot Valve screen Part #	Price $
1/2	0040-005	$48.90
3/4	0040-007	$59.45
1	0040-010	$69.15
1 1/4	0040-012	$103.05
1 1/2	0040-015	$103.05
2	0040-020	$121.20
2 1/2	0040-025	$169.20
3	0040-030	$169.20
4	0040-040	$205.10

Size (in.)	CPVC Foot Valve screen Part #	Price $
1/2	0041-005	$68.80
3/4	0041-007	$74.45
1	0041-010	$84.30
1 1/4	0041-012	$133.85
1 1/2	0041-015	$133.85
2	0041-020	$150.25
-	-	-
3	0041-030	$248.20
4	0041-040	$335.85

***1/2" thru 2" valves are supplied with both socket and threaded end connectors. For 1/4", 3/8" & 2 1/2" and above are supplied with either socket or threaded end connectors. Corzan® CPVC is a registered trademark of Noveon. Polypro available in threaded only. FPM = Fpm® type. **4" valve venturied to 6". ◊Trim Check design only.**

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Check Valves

TYPE 561 FEATURES:

- Available in PVC, CPVC and PP with EPDM or FPM(Fpm type) seals in sizes 3/8" - 3"
- True Union end connections available in 3/8" - 3"
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360

Sealing Pressure: 2.9 PSI

Cone Check Valve

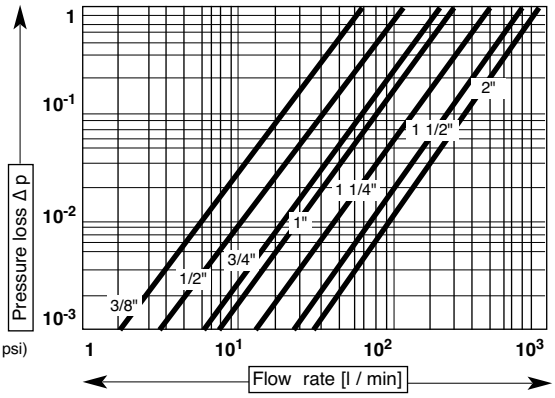


GF
Type 561 / 562

Inch Size	C_V	k_V
3/8	4.8	68
1/2	8.3	118
3/4	15.4	220
1	17.5	250
1 1/4	29.5	422
1 1/2	47.6	680
2	61.6	880
3	84.00	1200

(1bar = 14.5 psi ≈ 15 psi)

Pressure loss characteristics



	Size (in.)	PVC/EPDM soc/thr Part #	Price $
561	3/8	0081-003	$56.00
	1/2	0081-005	$56.00
	3/4	0081-007	$65.00
	1	0081-010	$68.00
	1 1/4	0081-012	$84.00
	1 1/2	0081-015	$103.00
	2	0081-020	$149.00
	2 1/2	0081-025	$349.00
	3	0081-030	$413.00
	4	0081-040	$971.00
562	3/8	0087-003	$79.00
	1/2	0087-005	$79.00
	3/4	0087-007	$91.00
	1	0087-010	$99.00
	1 1/4	0087-012	$119.00
	1 1/2	0087-015	$148.00
	2	0087-020	$209.00
	2 1/2	0087-025	$418.00
	3	0087-030	$521.00
	4	0087-040	$1359.00

	Size (in.)	PVC/FPM◊ soc/thr Part #	Price $
561	3/8	0082-003	$66.00
	1/2	0082-005	$66.00
	3/4	0082-007	$69.00
	1	0082-010	$83.00
	1 1/4	0082-012	$100.00
	1 1/2	0082-015	$132.00
	2	0082-020	$194.00
	2 1/2	0082-025	$419.00
	3	0082-030	$521.00
	4	0082-040	$1075.00
562	3/8	0088-003	$94.00
	1/2	0088-005	$94.00
	3/4	0088-007	$105.00
	1	0088-010	$116.00
	1 1/4	0088-012	$139.00
	1 1/2	0088-015	$172.00
	2	0088-020	$245.00
	2 1/2	0088-025	$488.00
	3	0088-030	$611.00
	4	0088-040	$1507.00

	Size (in.)	CPVC/EPDM soc/thr Part #	Price $
561	3/8	0083-003	$110.00
	1/2	0083-005	$110.00
	3/4	0083-007	$131.00
	1	0083-010	$157.00
	1 1/4	0083-012	$230.00
	1 1/2	0083-015	$240.00
	2	0083-020	$305.00
	2 1/2	0083-025	$779.00
	3	0083-030	$974.00
	4	0083-040	$1749.00
562	3/8	0089-003	$160.00
	1/2	0089-005	$160.00
	3/4	0089-007	$187.00
	1	0089-010	$226.00
	1 1/4	0089-012	$322.00
	1 1/2	0089-015	$342.00
	2	0089-020	$437.00
	2 1/2	0089-025	$879.00
	3	0089-030	$1098.00
	4	0089-040	$2450.00

	Size (in.)	CPVC/FPM◊ soc/thr Part #	Price $
561	3/8	0084-003	$122.00
	1/2	0084-005	$122.00
	3/4	0084-007	$149.00
	1	0084-010	$186.00
	1 1/4	0084-012	$269.00
	1 1/2	0084-015	$287.00
	2	0084-020	$382.00
	2 1/2	0084-025	$936.00
	3	0084-030	$1168.00
	4	0084-040	$2882.00
562	3/8	0090-003	$188.00
	1/2	0090-005	$188.00
	3/4	0090-007	$221.00
	1	0090-010	$267.00
	1 1/4	0090-012	$379.00
	1 1/2	0090-015	$403.00
	2	0090-020	$516.00
	2 1/2	0090-025	$1033.00
	3	0090-030	$1292.00
	4	0090-040	$3647.00

TYPE 562 FEATURES:

- Available in PVC, PVDF and PP with EPDM or FPM(Fpm type) seals in sizes 3/8" - 3"
- True Union end connections available in 3/8" - 3"
- Spring loaded, spring made of stainless steel (1.4310)
- Spring available in other materials
- Designed for easy installation and removal
- Vibration free even at high flow velocity
- Flow-optimized return cone, double guided
- For horizontal or vertical installation
- Compact installation length, same as ball valve type 546
- Z-length, end connectors and union nuts not compatible with type 360

Sealing Pressure: 1.45 PSI

FPM◊ = Fpm Type

	Size (in.)	PP/EPDM Threaded Part #	Price $
561	3/8	0085-003	$89.00
	1/2	0085-005	$89.00
	3/4	0085-007	$104.00
	1	0085-010	$125.00
	1 1/4	0085-012	$133.00
	1 1/2	0085-015	$183.00
	2	0085-020	$271.00
562	3/8	0091-003	$140.00
	1/2	0091-005	$140.00
	3/4	0091-007	$150.00
	1	0091-010	$166.00
	1 1/4	0091-012	$197.00
	1 1/2	0091-015	$226.00
	2	0091-020	$329.00

	Size (in.)	PP/FPM◊ Threaded Part #	Price $
561	3/8	0086-003	$93.00
	1/2	0086-005	$93.00
	3/4	0086-007	$112.00
	1	0086-010	$133.00
	1 1/4	0086-012	$145.00
	1 1/2	0086-015	$207.00
	2	0086-020	$318.00
562	3/8	0092-003	$155.00
	1/2	0092-005	$165.00
	3/4	0092-007	$176.00
	1	0092-010	$194.00
	1 1/4	0092-012	$232.00
	1 1/2	0092-015	$265.00
	2	0092-020	$388.00

Check Valves

Ball Check Valves



1/2" through 4"

CHEMTROL

FEATURES:

- Available in PVC, CPVC, PVDF and PP with EPDM or FKM seals in sizes 1/2" - 4".
- Unique double union design permits removal of valve with no disruption of connected piping.
- Designed to operate horizontally or vertically
- Free oscillation of Ball in guide ribs facilitates full port flow with minimum turbulence or chatter.
- PVC and CPVC available with universal connectors (i.e., socket and threaded) in sizes 1/2" - 2".
- Selection of elastomeric seals and thermoplastic for construction offer broadest range of chemical resistance and operating temperature.
- Equally effective in checking back flow from head pressure on the discharge or suction sides of pump.
- All pipe sizes fit IPS schedule 40 and 80.
- 150 PSI @ 73°F - non-shock

Ball Foot Valves

Note:
Foot Valve is made from a Check Valve and a screen assembly.



1/2" through 4"

CHEMTROL

4

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/2	0055-005	$49.34
3/4	0055-007	$58.88
1	0055-010	$70.11
1 1/4	0055-012	$117.51
1 1/2	0055-015	$117.51
2	0055-020	$160.85
3	0055-030-S	$437.25
3	0055-030-T	$437.25
4	0055-040-S	$626.43
4	0055-040-T	$626.43

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	0056-005	$86.59
3/4	0056-007	$101.19
1	0056-010	$121.28
1 1/4	-	-
1 1/2	0056-015	$158.96
2	0056-020	$262.74
3	0056-030	$676.67
4	0056-040	$829.75

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/2	0059-005	$77.10
3/4	0059-007	$92.36
1	0059-010	$108.88
1 1/4	0059-012	$188.79
1 1/2	0059-015	$188.79
2	0059-020	$251.20
3	0059-030-S	$679.81
3	0059-030-T	$679.81
4	0059-040-S	$914.53
4	0059-040-T	$914.53

Size (in.)	CPVC/EPDM flanged Part #	Price $
1/2	0060-005	$132.90
3/4	0060-007	$159.43
1	0060-010	$192.48
1 1/4	0060-012	$315.73
1 1/2	0060-015	$315.73
2	0060-020	$420.76
3	0060-030	$991.46
4	0060-040	$1183.00

Size (in.)*	PVC/FKM◊ soc./thr. Part #	Price $
1/2	0057-005	$55.69
3/4	0057-007	$62.30
1	0057-010	$78.05
1 1/4	0057-012	$131.02
1 1/2	0057-015	$131.02
2	0057-020	$178.12
3	0057-030-S	$494.55
3	0057-030-T	$494.55
4	0057-040-S	$699.44
4	0057-040-T	$699.44

Size (in.)	PVC/FKM◊ flanged Part #	Price $
1/2	0058-005	$94.99
3/4	0058-007	$105.98
1	0058-010	$130.00
1 1/4	0058-012	$176.15
1 1/2	0058-015	$176.15
2	0058-020	$292.73
3	0058-030	$752.03
4	0058-040	$922.38

Size (in.)*	CPVC/FKM◊ soc./thr. Part #	Price $
1/2	0061-005	$85.80
3/4	0061-007	$102.13
1	0061-010	$121.28
1 1/4	0061-012	$207.95
1 1/2	0061-015	$207.95
2	0061-020	$280.09
3	0061-030-S	$755.96
3	0061-030-T	$755.96
4	0061-040-S	$1015.01
4	0061-040-T	$1023.64

Size (in.)	CPVC/FKM◊ flanged Part #	Price $
1/2	0062-005	$147.34
3/4	0062-007	$172.39
1	0062-010	$213.76
1 1/4	0062-012	$352.39
1 1/2	0062-015	$352.39
2	0062-020	$467.86
3	0062-030	$1102.93
4	0062-040	$1314.09

Size (in.)*	Red PVDF /FKM◊ soc./thr. Part #	Price $
1/2	0066-005-S	$255.90
1/2	0066-005-T	$255.90
3/4	0066-007-S	$349.60
3/4	0066-007-T	$349.60
1	0066-010-S	$480.00
1	0066-010-T	$480.00
1 1/2	0066-015-S	$853.00
1 1/2	0066-015-T	$853.00
2	0066-020-S	$1067.00
2	0066-020-T	$1067.00

Size (in.)	Red PVDF/FKM◊ flanged Part #	Price $
1/2	0067-005	$788.00
3/4	0067-007	$946.00
1	0067-010	$1124.00
1 1/2	0067-015	$1790.00
2	0067-020	$2412.00

Size (in.)*	Nat PVDF /FKM◊ soc./thr. Part #	Price $
1/2	0068-005-S	$266.00
1/2	0068-005-T	$266.00
3/4	0068-007-S	$362.30
3/4	0068-007-T	$362.30
1	0068-010-S	$502.00
1	0068-010-T	$502.00
1 1/2	0068-015-S	$890.00
1 1/2	0068-015-T	$890.00
2	0068-020-S	$1122.00
2	0068-020-T	$1122.00



Screen Assemblies

Size (in.)	PVC Foot Valve screen Part #	Price $
1/2	2427-005	$48.97
3/4	2427-007	$59.21
1	2427-010	$80.38
1 1/4	2427-012	$139.26
1 1/2	2427-015	$139.26
2	2427-020	$167.83
3	2427-030	$197.74
4	2427-040	$197.74

Size (in.)	Blk PP/FKM◊ soc./thr. Part #	Price $
1/2	0063-005-S	$147.40
1/2	0063-005-T	$147.40
3/4	0063-007-S	$197.90
3/4	0063-007-T	$197.90
1	0063-010-S	$257.30
1	0063-010-T	$257.30
1 1/2	0063-015-S	$378.70
1 1/2	0063-015-T	$378.70
2	0063-020-S	$651.00
2	0063-020-T	$651.00

Size (in.)	Blk PP/FKM◊ flanged Part #	Price $
1/2	0064-005	$345.10
3/4	0064-007	$422.60
1	0064-010	$497.60
1 1/2	0064-015	$750.00
2	0064-020	$1130.00

Size (in.)	Nat PP/FKM◊ soc. Part #	Price $
1/2	0065-005	$146.20
3/4	0065-007	$196.50
1	0065-010	$254.70
1 1/2	0065-015	$377.50
2	0065-020	$646.00

Size (in.)	Nat PVDF/FKM◊ flanged Part #	Price $
1/2	0069-005	$826.00
3/4	0069-007	$987.00
1	0069-010	$1175.00
1 1/2	0069-015	$1872.00
2	0069-020	$2524.00

Size (in.)	CPVC Foot Valve screen Part #	Price $
1/2	2428-005	$62.46
3/4	2428-007	$59.84
1	2428-010	$100.79
1 1/4	2428-012	$177.02
1 1/2	2428-015	$177.02
2	2428-020	$209.44
3	2428-030	$252.46
4	2428-040	$252.46

NOTE: 1/2" - 2" PVC and CPVC are supplied with both socket and threaded end connectors.
*** 4" Valves are venturied from 3" pipe size up to 4". ◊FKM = Fpm type**

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Check Valves

Cepex™ Double Union Spring Check Valves (with Foot Valve Screen)



Features:

- Available in PVC or CORZAN CPVC
- Sizes 1/2" to 2" rated at 240 PSI @ 73° F
- Sizes 2 1/2" to 4" rated at 150 PSI @ 73° F
- Socket or Threaded end connectors
- Foot Valve Screen included
- Fully serviceable
- O-rings available in EPDM or Fpm®
- Spring: AISI 316
- Color: PVC: Dark Grey CPVC: Light Grey

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/2	5252-005	46.63
3/4	5252-007	53.66
1	5252-010	68.83
1 1/4	5252-012	90.93
1 1/2	5252-015	109.56
2	5252-020	155.07
2 1/2	5252-025-S	291.42
2 1/2	5252-025-T	304.16
3	5252-030-S	349.57
3	5252-030-T	369.43
4	5252-040-S	640.89
4	5252-040-T	640.89



* 1/2" thru 2" valves come with both socket and threaded end connectors. 2 1/2" and above come with either socket or threaded end connectors.

Cepex™ Double Union Ball Check Valves (with Foot Valve Screen)



Features:

- Available in PVC or CORZAN CPVC
- Sizes 1/2" to 2" rated at 240 PSI @ 73° F
- Sizes 2 1/2" to 4" rated at 150 PSI @ 73° F
- Socket or Threaded end connectors
- Foot Valve Screen included
- Fully serviceable
- O-rings available in EPDM or Fpm®
- Color: PVC: Dark Grey CPVC: Light Grey



Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/2	5251-005	29.68
3/4	5251-007	35.68
1	5251-010	49.78
1 1/4	5251-012	68.92
1 1/2	5251-015	72.48
2	5251-020	102.17
2 1/2	5251-025-S	237.57
2 1/2	5251-025-T	237.57
3	5251-030-S	270.27
3	5251-030-T	279.48
4	5251-040-S	434.60
4	5251-040-T	434.60

Size (in.)*	PVC/Fpm® soc./thr. Part #	Price $
1/2	5254-005	40.43
3/4	5254-007	48.34
1	5254-010	56.26
1 1/4	5254-012	85.50
1 1/2	5254-015	98.70
2	5254-020	144.87
2 1/2	5254-025-S	317.26
2 1/2	5254-025-T	317.26
3	5254-030-S	335.38
3	5254-030-T	345.31
4	5254-040-S	514.38
4	5254-040-T	514.38

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/2	5255-005	60.68
3/4	5255-007	78.38
1	5255-010	91.49
1 1/4	5255-012	147.30
1 1/2	5255-015	156.86
2	5255-020	210.32
2 1/2	5255-025-S	641.64
2 1/2	5255-025-T	641.64
3	5255-030-S	688.28
3	5255-030-T	688.28
4	5255-040-S	1164.27
4	5255-040-T	1164.27

Size (in.)*	CPVC/Fpm® soc./thr. Part #	Price $
1/2	5256-005	68.92
3/4	5256-007	68.92
1	5256-010	98.70
1 1/4	5256-012	199.55
1 1/2	5256-015	209.11
2	5256-020	256.58
2 1/2	5256-025-S	773.49
2 1/2	5256-025-T	773.49
3	5256-030-S	903.66
3	5256-030-T	903.66
4	5256-040-S	1435.55
4	5256-040-T	1435.55

* 1/2" thru 2" valves come with both socket and threaded end connectors. 2 1/2" and above come with either socket or threaded end connectors.

Check Valves

ASAHI Ball Check Valves / Foot Valves

True Union Ball Check Valve





Features

• Uniseat / seal of EPDM or FKM (Fpm type) • Ball is the only moving part. It unseats to permit flow in one direction but seals against seat to prevent backflow.
• May be used vertically or horizontally • Minimum shut-off of 5 psi
• All sizes rated full vacuum service • Solid thermoplastic ball

Options

• PTFE coated FKM uniseat / seal
• Spring-loaded ball to assist ball in seating faster

Specifications

Sizes: True Union: 1/2" - 4"
Single Union: 3" - 4"
Ends: Socket, Threaded, Flanged, Butt
Bodies: PVC, CPVC, PP, PVDF
Seats: EPDM, FKM, PTFE
Seals: EPDM, FKM, PTFE
Option: Foot Valve

Cv Values

Size Inches	Size mm	Cv Values
1/2	15	6.5
3/4	20	17
1	25	25
1 1/2	40	86
2	50	130
3	80	280
4	100	500

Nominal Size		PVC	CPVC				PP			PVDF			
		30°F	30°F	121°F	141°F	176°F	-5°F	86°F	141°F	-30°F	141°F	176°F	196°F
Inches	mm	120°F	120°F	140°F	175°F	195°F	85°F	140°F	175°F	140°F	175°F	195°F	210°F
1/2 - 2	15-50	150	150	120	90	60	150	90	60	150	125	110	90
3 - 4	80-100	100	100	90	60	45	75	60	45	100	90	60	45

Size (in.)*	PVC/EPDM soc./thr. Part #	Price $
1/2	1210-005	$74.52
3/4	1210-007	$84.64
1	1210-010	$106.72
1 1/4	1210-012	$174.80
1 1/2	1210-015	$174.80
2	1210-020	$244.72
3	1210-030-S	$552.00
3	1210-030-T	$552.00
4	1210-040-S	$1104.00
4	1210-040-T	$1104.00

Size (in.)*	PVC/FKM soc./thr. Part #	Price $
1/2	1213-005	$93.84
3/4	1213-007	$115.92
1	1213-010	$154.56
1 1/4	1213-012	$287.04
1 1/2	1213-015	$287.04
2	1213-020	$362.48
3	1213-030-S	$920.00
3	1213-030-T	$920.00
4	1213-040-S	$1907.16
4	1213-040-T	$1907.16

Size (in.)*	CPVC/EPDM soc./thr. Part #	Price $
1/2	1216-005	$104.88
3/4	1216-007	$131.56
1	1216-010	$153.64
1 1/4	1216-012	$271.40
1 1/2	1216-015	$271.40
2	1216-020	$362.48
3	1216-030-S	$690.92
3	1216-030-T	$690.92
4	1216-040-S	$1921.88
4	1216-040-T	$1921.88

Size (in.)*	CPVC/FKM soc./thr. Part #	Price $
1/2	1219-005	$113.16
3/4	1219-007	$136.16
1	1219-010	$158.24
1 1/4	1219-012	$330.28
1 1/2	1219-015	$330.28
2	1219-020	$408.48
3	1219-030-S	$1035.00
3	1219-030-T	$1035.00
4	1219-040-S	$2447.20
4	1219-040-T	$2447.20

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	1212-005	$135.24
3/4	1212-007	$162.84
1	1212-010	$223.56
1 1/4	1212-012	$430.56
1 1/2	1212-015	$430.56
2	1212-020	$594.32
3	1212-030	$1030.40
4	1212-040	$1716.72

Size (in.)	PVC/FKM flanged Part #	Price $
1/2	1215-005	$191.36
3/4	1215-007	$206.08
1	1215-010	$282.44
1 1/4	1215-012	$537.28
1 1/2	1215-015	$537.28
2	1215-020	$762.68
3	1215-030	$1377.24
4	1215-040	$2133.48

Size (in.)	CPVC/EPDM flanged Part #	Price $
1/2	1218-005	$184.92
3/4	1218-007	$216.20
1	1218-010	$293.48
1 1/4	1218-012	$577.76
1 1/2	1218-015	$577.76
2	1218-020	$795.80
3	1218-030	$1379.08
4	1218-040	$2638.56

Size (in.)	CPVC/FKM flanged Part #	Price $
1/2	1221-005	$239.20
3/4	1221-007	$268.64
1	1221-010	$349.60
1 1/4	1221-012	$728.64
1 1/2	1221-015	$728.64
2	1221-020	$971.52
3	1221-030	$1771.92
4	1221-040	$3049.80





Size (in.)	PVC Foot Valve Screen Part #	Price $
1/2	3154-005	$21.16
3/4	3154-007	$24.84
1	3154-010	$30.36
1 1/4	-	-
1 1/2	3154-015	$44.16
2	3154-020	$51.52
3	3154-030	$110.40
4	3154-040	$209.76

Foot Valve screens also available in CPVC, PP, and PVDF

* Sizes 3" and 4" are Single Union Valves. 1 1/4" is bushed down for 1 1/2" - Non-returnable.
S = IPS Socket,T = Threaded, DS = Din Socket

Note: Foot Valve is made from a Check Valve and a screen assembly.

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Check Valves

ASAHI Ball Check Valves / Foot Valves

True Union Ball Check Valve





Features

• Uniseat / seal of EPDM or FKM (Fpm type) • Ball is the only moving part. It unseats to permit flow in one direction but seals against seat to prevent backflow.
• May be used vertically or horizontally • Minimum shut-off of 5 psi
• All sizes rated full vacuum service • Solid thermoplastic ball

Options

• PTFE coated FKM uniseat / seal
• Spring-loaded ball to assist ball in seating faster

Specifications

Sizes: True Union: 1/2" - 4"
Single Union: 3" - 4"
Ends: Socket, Threaded, Flanged, Butt
Bodies: PVC, CPVC, PP, PVDF
Seats: EPDM, FKM, PTFE
Seals: EPDM, FKM, PTFE
Option: Foot Valve

Cv Values

Size Inches	Size mm	Cv Values
1/2	15	6.5
3/4	20	17
1	25	25
1 1/2	40	86
2	50	130
3	80	280
4	100	500

4

Nominal Size		PVC	CPVC				PP			PVDF			
		30°F	30°F	121°F	141°F	176°F	-5°F	86°F	141°F	-30°F	141°F	176°F	196°F
Inches	mm	120°F	120°F	140°F	175°F	195°F	85°F	140°F	175°F	140°F	175°F	195°F	210°F
1/2 - 2	15-50	150	150	120	90	60	150	90	60	150	125	110	90
3 - 4	80-100	100	100	90	60	45	75	60	45	100	90	60	45

Size (in.)	PP/EPDM IPS SOC/THR/DIN SOC Part #	Price $
1/2	1223-005-S	$59.80
1/2	1223-005-T	$59.80
1/2	1223-005-DS	$59.80
3/4	1223-007-S	$83.72
3/4	1223-007-T	$83.72
3/4	1223-007-DS	$83.72
1	1223-010-S	$89.24
1	1223-010-T	$89.24
1	1223-010-DS	$89.24
1 1/4	1223-012-S	$172.04
1 1/4	1223-012-T	$172.04
1 1/4	1223-012-DS	$172.04
1 1/2	1223-015-S	$172.04
1 1/2	1223-015-T	$172.04
1 1/2	1223-015-DS	$172.04
2	1223-020-S	$218.04
2	1223-020-T	$218.04
2	1223-020-DS	$218.04
3	1223-030-S	$621.92
3	1223-030-T	$621.92
3	1223-030-DS	$621.92
4	1223-040-S	$1278.80
4	1223-040-T	$1278.80
4	1223-040-DS	$1278.80

Size (in.)	PP/EPDM Butt Fusion Part #	Price $
1/2	1224-005	$59.80
3/4	1224-007	$83.72
1	1224-010	$89.24
1 1/4	1224-012	$172.04
1 1/2	1224-015	$172.04
2	1224-020	$218.04
3	1224-030	$621.92
4	1224-040	$1278.80

Size (in.)	PP/EPDM flanged Part #	Price $
1/2	1225-005	$198.72
3/4	1225-007	$228.16
1	1225-010	$308.20
1 1/4	1225-012	$625.60
1 1/2	1225-015	$625.60
2	1225-020	$839.04
3	1225-030	$1245.68
4	1225-040	$1975.24

Size (in.)	PP/FKM IPS SOC/THR/DIN SOC Part #	Price $
1/2	1227-005-S	$59.80
1/2	1227-005-T	$59.80
1/2	1227-005-DS	$59.80
3/4	1227-007-S	$83.72
3/4	1227-007-T	$83.72
3/4	1227-007-DS	$83.72
1	1227-010-S	$89.24
1	1227-010-T	$89.24
1	1227-010-DS	$89.24
1 1/4	1227-012-S	$172.04
1 1/4	1227-012-T	$172.04
1 1/4	1227-012-DS	$172.04
1 1/2	1227-015-S	$172.04
1 1/2	1227-015-T	$172.04
1 1/2	1227-015-DS	$172.04
2	1227-020-S	$218.04
2	1227-020-T	$218.04
2	1227-020-DS	$218.04
3	1227-030-S	$621.92
3	1227-030-T	$621.92
3	1227-030-DS	$621.92
4	1227-040-S	$1278.80
4	1227-040-T	$1278.80
4	1227-040-DS	$1278.80

Size (in.)	PP/FKM Butt Fusion Part #	Price $
1/2	1228-005	$59.80
3/4	1228-007	$83.72
1	1228-010	$89.24
1 1/4	1228-012	$172.04
1 1/2	1228-015	$172.04
2	1228-020	$218.04
3	1228-030	$621.92
4	1228-040	$1278.80

Size (in.)	PP/FKM flanged Part #	Price $
1/2	1229-005	$198.72
3/4	1229-007	$228.16
1	1229-010	$308.20
1 1/4	1229-012	$625.60
1 1/2	1229-015	$625.60
2	1229-020	$839.04
3	1229-030	$1245.68
4	1229-040	$1975.24

Size (in.)	PVDF/FKM Butt Fusion Part #	Price $
1/2	1232-005	$165.60
3/4	1232-007	$237.36
1	1232-010	$308.20
1 1/4	1232-012	$641.24
1 1/2	1232-015	$641.24
2	1232-020	$829.84
3	1232-030	$1441.64
4	1232-040	$3427.92

Size (in.)	PVDF/FKM IPS SOC/THR/DIN SOC Part #	Price $
1/2	1231-005-S	$165.60
1/2	1231-005-T	$165.60
1/2	1231-005-DS	$165.60
3/4	1231-007-S	$237.36
3/4	1231-007-T	$237.36
3/4	1231-007-DS	$237.36
1	1231-010-S	$308.20
1	1231-010-T	$308.20
1	1231-010-DS	$308.20
1 1/4	1231-012-S	$641.24
1 1/4	1231-012-T	$641.24
1 1/4	1231-012-DS	$641.24
1 1/2	1231-015-S	$641.24
1 1/2	1231-015-T	$641.24
1 1/2	1231-015-DS	$641.24
2	1231-020-S	$829.84
2	1231-020-T	$829.84
2	1231-020-DS	$829.84
3	1231-030-S	$1441.64
3	1231-030-T	$1441.64
3	1231-030-DS	$1441.64
4	1231-040-S	$3427.92
4	1231-040-T	$3427.92
4	1231-040-DS	$3427.92

Size (in.)	PVDF/FKM flanged Part #	Price $
1/2	1233-005	$444.36
3/4	1233-007	$517.04
1	1233-010	$766.36
1 1/4	1233-012	$1320.20
1 1/2	1233-015	$1320.20
2	1233-020	$1493.16
3	1233-030	$2951.36
4	1233-040	$5217.32

* Sizes 3" and 4" are Single Union Valves. 1 1/4" is bushed down for 1 1/2" - Non-returnable.
S = IPS Socket,T = Threaded, DS = Din Socket
All PVC and CPVC Asahi Ball Check valves are on the previous page.

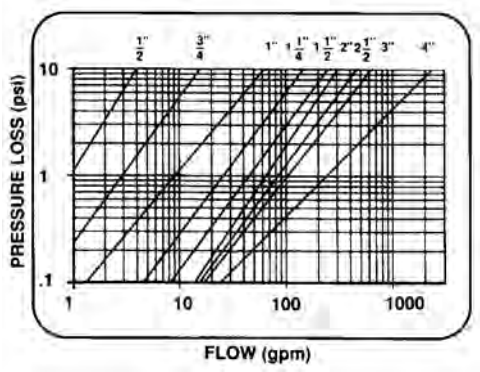
Y-CHECK VALVES



FEATURES:

- The Y-Check Valves prevent reversal of flow. They are similar in function to a ball check valve. A minimum of two pounds of positive back pressure seats the disc O-ring onto a precision machined seat. A plastic coil holds and guides the disc into position.
- Full flow design - Minimum pressure drop - FPM (Fpm type) Seals
- All PVC construction - PVC coils guides disc for positive sealing
- Hex shaped cap for easy inspection and clean out
- Sizes 1/2" - 4" (150 psi @ 70°F, non shock)
- Operates horizontally and vertically

HAYWARD



Size (in.)*	PVC/FPM◊ soc./thr. Part #	Price $
1/2	0038-005-S	$99.54
1/2	0038-005-T	$99.54
3/4	0038-007-S	$107.82
3/4	0038-007-T	$107.82
1	0038-010-S	$116.79
1	0038-010-T	$116.79
1 1/4	0038-012-S	$183.77
1 1/4	0038-012-T	$183.77
1 1/2	0038-015-S	$200.35
1 1/2	0038-015-T	$200.35
2	0038-020-S	$248.84
2	0038-020-T	$248.84
2 1/2	0038-025-S	$529.98
2 1/2	0038-025-T	$529.98
3	0038-030-S	$529.98
3	0038-030-T	$529.98
4	0038-040-S	$867.30
4	0038-040-T	$867.30

Size (in.)	PVC/FPM◊ flanged Part #	Price $
1/2	0039-005	$130.52
3/4	0039-007	$144.29
1	0039-010	$173.02
1 1/4	0039-012	$265.50
1 1/2	0039-015	$280.63
2	0039-020	$377.78
2 1/2	0039-025	$781.45
3	0039-030	$781.45
4	0039-040	$1188.43

◊FPM = Fpm type

GF Y-Check Valves Type 304

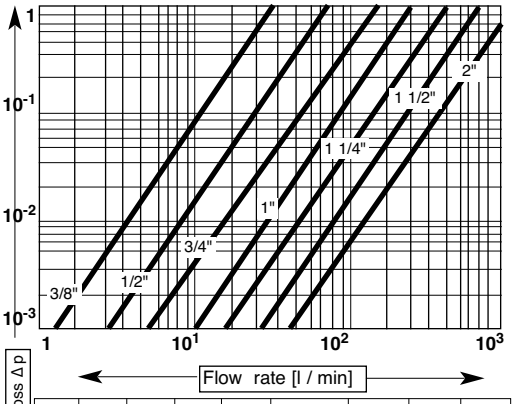


FEATURES:

- The Y-Check Valves Type 304 is a weighted angle check valve and is used to automatically stop flow in the back direction when the fluid in the line reverses. The valve closes by the dead weight of the weighted seat.
- Y-Check valves generally have tighter shut-off characteristics than ball checks at the same pressures.
- Transparent body allows visual check of operation.
- Turbulent flow has minimum effect on Y-check valve.
- Translucent PVC in Sizes 1/2" - 3" with spigot type pipe connections and EPDM or FPM seals. Meets or exceeds the requirements of 12454B according to the classifications and requirements of ASTM D-1784.
- Can be installed horizontally and vertically.
- Soft seat provides leak tight seal at very low pressures.
- Weight loaded check outperforms PVC spring loaded designs.
- Metal pin through removal eye and then turning bonnet nut provides easy removal of end plug.

Note: Valve shown with spigot ends. For socket end connection, PVC-80 gray couplings are supplied loose in box.

Pressure loss characteristics



Size	3/8	1/2	3/4	1	1 1/4	1 1/2	2	3
C_V	2.78	6.65	12.60	22.90	33.90	50.70	79.10	175.0
k_V	41	95	180	327	484	725	1130	2500

Size (in.)*	PVC/EPDM soc./spigot Part #	Price $
1/2	0052-005-S	54.00
1/2	0052-005-SP	54.00
3/4	0052-007-S	63.00
3/4	0052-007-SP	63.00
1	0052-010-S	72.00
1	0052-010-SP	72.00
1 1/4	0052-012-S	94.00
1 1/4	0052-012-SP	94.00
1 1/2	0052-015-S	132.00
1 1/2	0052-015-SP	132.00
2	0052-020-S	192.00
2	0052-020-SP	192.00
3	0052-030-S	431.00
3	0052-030-SP	431.00

Size (in.)*	PVC/FPM◊ soc./spigot Part #	Price $
1/2	0053-005-S	65.00
1/2	0053-005-SP	65.00
3/4	0053-007-S	77.00
3/4	0053-007-SP	77.00
1	0053-010-S	90.00
1	0053-010-SP	90.00
1 1/4	0053-012-S	121.00
1 1/4	0053-012-SP	121.00
1 1/2	0053-015-S	188.00
1 1/2	0053-015-SP	188.00
2	0053-020-S	263.00
2	0053-020-SP	263.00
3	0053-030-S	499.00
3	0053-030-SP	499.00

◊FPM = Fpm type

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Check Valves

Plast-O-Matic Self Closing Check Valves - Series CKS - Sizes 1 1/2", 2", 3" & 4"



Features:

- Available in PVC, CPVC, PP, & PVDF with Buna-N, EPDM, or Fpm® seals. Threaded or Socket.
- Normally closed, self-sealing, mount in any position
- Minimal Cracking Pressure: Valve begins to open at approximately 1.0 to 1.5 psi.
- Leak-free sealing protects reverse flow.
- PTFE® PFA encapsulated SS spring provides bubble-tight seal mounted in any position.
- Rapid closure by spring-loaded poppet helps to eliminate sudden back-flow water hammer.
- Convenience: Union nuts simplify valve installation, inspection and removal.

PVC/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1 1/2	0328-015-S	249.00
1 1/2	0328-015-T	249.00
2	0328-020-S	335.00
2	0328-020-T	335.00
3	0328-030-S	603.00
3	0328-030-T	603.00
4	0328-040-S	952.00
4	0328-040-T	952.00

CPVC/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1 1/2	0330-015-S	328.00
1 1/2	0330-015-T	328.00
2	0330-020-S	415.00
2	0330-020-T	415.00
3	0330-030-S	946.00
3	0330-030-T	946.00
4	0330-040-S	1898.00
4	0330-040-T	1898.00

PP/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1 1/2	0331-015-S	263.00
1 1/2	0331-015-T	263.00
2	0331-020-S	340.00
2	0331-020-T	340.00
3	0331-030-S	663.00
3	0331-030-T	663.00

PVDF/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1 1/2	0334-015-S	1027.00
1 1/2	0334-015-T	1027.00
2	0334-020-S	1245.00
2	0334-020-T	1245.00
3	0334-030-S	2843.00
3	0334-030-T	2843.00

PVC/EPDM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1 1/2	0329-015-S	244.00
1 1/2	0329-015-T	244.00
2	0329-020-S	328.00
2	0329-020-T	328.00
3	0329-030-S	598.00
3	0329-030-T	598.00
4	0329-040-S	922.00
4	0329-040-T	922.00

CPVC/EPDM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1 1/2	0333-015-S	321.00
1 1/2	0333-015-T	321.00
2	0333-020-S	410.00
2	0333-020-T	410.00
3	0333-030-S	941.00
3	0333-030-T	941.00
4	0333-040-S	1869.00
4	0333-040-T	1869.00

PP/EPDM - Soc./Thr.

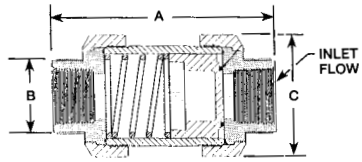
Size (in.)	ALSCO #	Price $
1 1/2	0332-015-S	258.00
1 1/2	0332-015-T	258.00
2	0332-020-S	345.00
2	0332-020-T	345.00
3	0332-030-S	658.00
3	0332-030-T	658.00

PVDF/EPDM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1 1/2	0335-015-S	1016.00
1 1/2	0335-015-T	1016.00
2	0335-020-S	1238.00
2	0335-020-T	1238.00
3	0335-030-S	2837.00
3	0335-030-T	2837.00

CKS Dimensions and Model Numbers

Pipe Size (NPT)	A		B		C		Model Number *
	in.	mm.	in.	mm.	in.	mm.	
1½	7.4	188	2.5	64	3.5	89	CKS150V-NC-PV
2	8.4	213	3.3	83	4.5	114	CKS200V-NC-PV
3	9.9	251	4.3	109	5.5	140	CKS300V-NC-PV



Series CKS Pressure Ratings

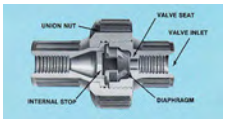
Valve Body Material	Maximum Working Pressures					
	77°F(25°C) Inlet & Reverse		110°F (43° C) Inlet & Reverse		140°F (60°C) Inlet & Reverse	
	PSI	Bar	PSI	Bar	PSI	Bar
PVC	150	10,3	100	6,8	40	2,7

Notes: 1. 140°F (60°C) is the maximum recommended temperature for PVC.
2. Consult factory for information on CPVC, Polypro & PVDF.
3. For information on ½", ¾" & 1" self closing check valves request Catalog CKL.

Plast-O-Matic Self Closing Diaphragm Check Valves - Series CKM - Sizes 1/2", 3/4" & 1"



Sizes:
1/2", 3/4", & 1"



Features:

- Available in PVC, CPVC, PP glass-filled, PVDF with Buna-N, EPDM, or Fpm® seals.
- Diaphragm, a normally closed seal, will neither stick nor chatter.
- Can be mounted in any position.
- Minimal Cracking Pressure: Diaphragm begins to open at less than 1 1/2 psi.

Series CKM Pressure Ratings

Valve Body Material	Valve Diaphragm Material	Maximum Working Pressures							
		77°F (25°C)		140°F (60°C)		185°F (85°C)		203°F (145°C)	
		Inlet	Back	Inlet	Back	Inlet	Back	Inlet	Back
PVC	Buna-N	150	100	150	100	NR	NR	NR	NR
	EPDM	150	100	150	100	NR	NR	NR	NR
	Viton	150	100	150	100	NR	NR	NR	NR
Polypro (PP), Glass Filled	Buna-N	100	100	100	100	100	100	NR	NR
	EPDM	100	100	100	100	100	100	NR	NR
	Viton	100	100	100	100	100	100	NR	NR
PVDF	Buna-N	150	100	150	100	150	100	NR	NR
	EPDM	150	100	150	100	150	100	NR	NR
	Viton	150	100	150	100	150	100	80	50

PVC/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0302-005-V	85.00
3/4	0302-007-V	98.00
1	0302-010-V	119.00

CPVC/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0301-005-V	134.00
3/4	0301-007-V	159.00
1	0301-010-V	182.00

GPP/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0303-005-V	136.00
3/4	0303-007-V	159.00
1	0303-010-V	181.00

PVDF/FPM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0304-005-V	222.00
3/4	0304-007-V	268.00
1	0304-010-V	313.00

PVC/EPDM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0302-005-EP	77.00
3/4	0302-007-EP	92.00
1	0302-010-EP	113.00

CPVC/EPDM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0301-005-EP	128.00
3/4	0301-007-EP	150.00
1	0301-010-EP	174.00

GPP/EPDM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0303-005-EP	130.00
3/4	0303-007-EP	152.00
1	0303-010-EP	175.00

PVDF/EPDM - Soc./Thr.

Size (in.)	ALSCO #	Price $
1/2	0304-005-EP	215.00
3/4	0304-007-EP	261.00
1	0304-010-EP	305.00

Special Purpose Diaphragm Check Valve - Series CK and CKD



Series CK is a machined PTFE valve that features the same normally-closed diaphragm design as Series CKM, available in 3/4"and 1" sizes. Series CKD is a normally-open diaphragm check valve that is ideal for ultra-low pressure or flow, requires .5 PSI to close. Sizes 1/4" and 1/2" in PVC, Natural Polypro, PTFE and PVDF.

CK - PTFE / FKM

Size (in.)	ALSCO #	Price $
3/4	CK075V-TF	446.00
1	CK100V-TF	556.00

CKD - PVC / FKM

Size (in.)	ALSCO #	Price $
1/4	0305-002-V	120.00
1/2	0305-005-V	136.00

CKD - PP / FKM

Size (in.)	ALSCO #	Price $
1/4	0306-002-V	152.00
1/2	0306-005-V	171.00

CKD - PTFE / FKM

Size (in.)	ALSCO #	Price $
1/4	0307-002-V	292.00
1/2	0307-005-V	325.00

CKD - PVDF / FKM

Size (in.)	ALSCO #	Price $
1/4	0308-002-V	398.00
1/2	0308-005-V	455.00

CK - PTFE / EPDM

Size (in.)	ALSCO #	Price $
3/4	CK075EP-TF	435.00
1	CK100EP-TF	551.00

CKD - PVC / EPDM

Size (in.)	ALSCO #	Price $
1/4	0305-002-EP	114.00
1/2	0305-005-EP	130.00

CKD - PP / EPDM

Size (in.)	ALSCO #	Price $
1/4	0306-002-EP	145.00
1/2	0306-005-EP	164.00

CKD - PTFE / EPDM

Size (in.)	ALSCO #	Price $
1/4	0307-002-EP	284.00
1/2	0307-005-EP	319.00

CKD - PVDF / EPDM

Size (in.)	ALSCO #	Price $
1/4	0308-002-EP	384.00
1/2	0308-005-EP	448.00

Swing Check Valves

Asahi Horizontal Swing Check Valves



Features (Sizes 3/4" - 8")

- Minimum flow resistance - Low pressure drop
- Horizontal or vertical installation
- All sizes rated for full vacuum service
- Minimum back pressure to seat disc tightly
- Top access cover facilitates maintenance without body removal from pipeline
- All thermoplastic body
- All PVC parts made of high impact PVC
- PVC and PP Valves come with EPDM as standard
- PVDF Valves come with PTFE or bonded EPDM

Specifications

- Sizes: 3/4" - 8"
- Models: Flanged (ANSI) Connection only Lever and Weight Option
- Bodies: PVC, PP AND PVDF
- Seats and Seal: EPDM, FKM , PTFE

Options

- External lever and weight to assist disc in closing faster
- External spring to assist disc in closing faster
- PTFE or FKM seat & O-rings

Size (in.)	PVC/EPDM flanged Part #	Price $
3/4	1201-007	$377.00
1	1201-010	$436.00
1 1/2	1201-015	$543.00
2	1201-020	$671.00
2 1/2	1201-025	$939.00
3	1201-030	$1002.00
4	1201-040	$1440.00
5	1201-050	$2545.00
6	1201-060	$1515.00
8	1201-080	$2163.00

Size (in.)	PP/EPDM flanged Part #	Price $
3/4	1202-007	$460.00
1	1202-010	$519.00
1 1/2	1202-015	$655.00
2	1202-020	$810.00
2 1/2	1202-025	$1133.00
3	1202-030	$1279.00
4	1202-040	$1831.00
5	1202-050	$3026.00
6	1202-060	$3241.00
8	1202-080	$6219.00

Size (in.)	PVDF/PTFE flanged Part #	Price $
3/4	1203-007	$851.00
1	1203-010	$1349.00
1 1/2	1203-015	$1945.00
2	1203-020	$2636.00
2 1/2	1203-025	$3495.00
3	1203-030	$3809.00
4	1203-040	$5892.00
5	1203-050	$8226.00
6	1203-060	$11040.00
8	1203-080	$16495.00

	PVC		PP				PVDF		
	Elastomer	PTFE	Elastomer		PTFE		PTFE		
Size	30° to 120°F	30° to 120°F	-5° to 140°F	141° to 175°F	-5° to 140°F	141° to 175°F	-30° to 140°F	140° to 175°F	176° to 210°F
3/4"	100	85	100	85	90	75	90	75	60
1"	100	85	100	85	90	75	90	75	60
1 1/2"	100	85	100	85	90	75	90	75	60
2"	100	85	100	85	90	75	90	75	60
2 1/2"	100	85	100	85	90	75	90	75	60
3"	75	75	75	85	75	60	75	60	45
4"	75	75	75	60	75	60	75	60	45
5"	75	60	75	60	60	45	60	45	40
6"	75	45	75	60	45	30	45	40	30
8"	45	45	45	30	45	30	45	40	30

Cv Values

Size Inches	Size mm	Cv Values
3/4	20	14
1	25	24
1 1/2	40	81
2	50	140
2 1/2	65	250
3	80	280
4	100	510
5	125	750
6	150	1100
8	200	1900

Weight Lbs.

Size Inches	Size mm	Lbs.
3/4	20	2.20
1	25	4.40
1 1/2	40	6.61
2	50	10.14
2 1/2	65	14.33
3	80	16.53
4	100	26.45
5	125	44.00
6	150	59.52
8	200	92.59

Min. Back Pressure to Close (PSI)

Size Inches	Size mm	SEAT	
		EPDM	PTFE
3/4	20	2.8	5.0
1	25	5.0	8.5
1 1/2	40	5.0	8.5
2	50	5.0	8.5
2 1/2	65	5.0	8.5
3	80	5.7	8.5
4	100	5.7	9.2
5	125	5.7	9.2
6	150	6.4	10.0
8	200	6.4	10.0

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Swing Check Valves

HAYWARD® Swing Check Valves

Features

- PVC, PPL & Corzan® CPVC
- Flanged ends
- FPM or EPDM seals
- 3", 4", 6", and 8" sizes
- Two Drain Ports for fast liquid drain
- Horizontal or vertical installation
- No flange gaskets required
- Higher pressures at higher Temps.
- Unique two-in-one seat design doubles the valve life
- Only 3 psi back pressure seals valve

Options

- Counterweight for Closing Assistance

PVC, PPL, Corzan® CPVC 3" to 8"



Note: Connecting flange should have smooth face only.

Twice the Temperature / Pressure Rating of Other Plastic Swing Check Valves.

Unique Two In One Seat™ Design:
This design doubles the valve's service life. The valve constructed from two identical halves. If one seat is damaged, simply reposition the clapper so that it seats against the other body seat. Then reverse the valve in the pipeline. The valve is again ready for service.

Built-In O-Ring Flange Seals
Two built-in O-ring flange seals. No need for additional, expensive flange gaskets.

Self-Aligning Clapper Seal
Bubble-tight checking, with a minimum of only 3 psi back pressure, is assured with this rugged, self-aligning clapper seal design.

No Corrosion — Ever!
Hayward's Swing Check Valves will never stick or jam as a result of rust or corrosion. And they can survive corrosion environments and harsh weather conditions.

4

Swing Check Valves

Size (in.)	PVC/FPM flanged Part #	Price $
3	2520-030	$1064.97
4	2520-040	$1447.89
6	2520-060	$2123.29
8	2520-080	$2927.39

Size (in.)	PVC/EPDM flanged Part #	Price $
3	2521-030	$847.11
4	2521-040	$1129.34
6	2521-060	$1668.79
8	2521-080	$2380.70

Size (in.)	CPVC/FPM flanged Part #	Price $
3	2526-030	$2356.29
4	2526-040	$3203.45
6	2526-060	$4696.36
-	-	-

Size (in.)	CPVC/EPDM flanged Part #	Price $
3	2527-030	$1873.55
4	2527-040	$2498.55
6	2527-060	$3687.73
-	-	-

Size (in.)	PP/FPM flanged Part #	Price $
3	2522-030	$1267.49
4	2522-040	$1722.36
6	2522-060	$2526.60
8	2522-080	$3485.54

Size (in.)	PP/EPDM flanged Part #	Price $
3	2523-030	$1009.33
4	2523-040	$1343.27
6	2523-060	$1983.84
8	2523-080	$2834.36

Swing Check Valves with counterweight for closing assistance

Size (in.)	PVC/FPM Counterweight flanged Part #	Price $
3	2524-030	$1289.83
4	2524-040	$1671.97
6	2524-060	$2347.32
8	2524-080	$3149.83

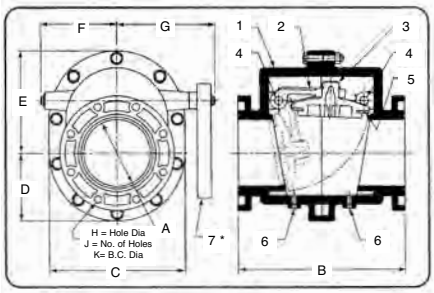
Size (in.)	PVC/EPDM Counterweight flanged Part #	Price $
3	2525-030	$1070.39
4	2525-040	$1352.57
6	2525-060	$1891.08
8	2525-080	$2606.36

Size (in.)	CPVC/FPM Counterweight flanged Part #	Price $
3	2557-030	$2581.68
4	2557-040	$3427.20
6	2557-060	$4920.20
-	-	-

Size (in.)	CPVC/EPDM Counterweight flanged Part #	Price $
3	2558-030	$2092.58
4	2558-040	$2722.35
6	2558-060	$3914.75
-	-	-

PP valves w/counterweight is POA only.

Technical Information:



1. Body
2. Swing Arm
3. Clapper
4. Shaft*
5. Seal
6. Drain Plug (2)
7. Counter Weight (Optional)

*PVC with PVC valves
PVDF with PPL valves

C_V Factors

Valve Size	C_V
3 inch	328
4 inch	514
6 inch	1278
8 inch	2549

Selection Chart

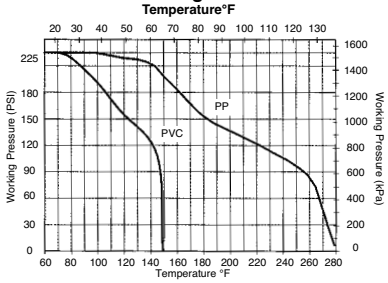
Sizes	Material	End Conn.	Seals	Pressure Rating
3" and 4"	PVC or Glass Reinforced PPL	Flanged	Viton or EPDM	225 psi @ 70F
6" and 8"				150 psi @ 70F

Dimensions

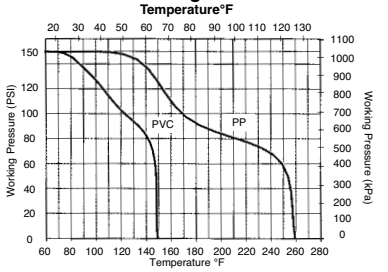
Size	A	B	C	D	E	F	G	H	J	K	Minimum Back Pressure To Close - PSI	Weight Lb/Kg
	Inches/Millimeters											
3/75	3.00/76	10.24/260	7.50/190	3.75/95	5.21/132	3.90/99	4.91/48	0.625/M16	4	6.00/150	3	10/4.5
4/100	3.90/99	11.81/300	9.25/235	4.63/117	6.75/171	4.80/122	6.15/156	0.625/M16	8	7.50/180	3	21/9.5
6/150	5.91/150	15.75/400	12.75/323	6.38/162	9.25/235	6.47/164	8.30/210	0.75/M20	8	9.50/240	3	47/21.4
8/200	7.87/199	19.69/500	16.00/406	8.00/203	12.00/304	8.96/227	11.54/293	0.75/M20	8	11.75/295	3	90/41.0

Operating Temperature / Pressure

3" and 4" Swing Check Valve



6" and 8" Swing Check Valve



Spring/Swing Check Valves

Utility Spring/Swing Check Valves

FEATURES:

- Chemical & Corrosion resistant PVC White or High Visibility PVC Clear construction
- No metal parts
- Maintenance Free Sealed Unit in a Compact space saving design
- Long-life, High Grade EPDM Seat with Weighted Disc
- Sizes 1/2" - 8" Pressure Rated to 150 psi @ 73° F
- Full-Flow (open) and 75 psi @ 73° F Back pressure (closed)
- Suitable for either horizontal or vertical Up-flow Installations and Vacuum service
- NSF Certified for Potable Water Use
- Silicone-Free Assembly

Applications:

Landscape & Irrigation, Pool & Spa, Aquaculture, OEM and many general purpose applications.



SWING CHECK VALVE
Socket & Threaded



WHITE PVC

Size (in.)	White PVC soc./thr. Part #	Price $
1/2	0147-005	19.46
1/2	0147-005-T	20.51
3/4	0147-007	19.81
3/4	0147-007-T	20.88
1	0147-010	20.51
1	0147-010-T	21.62
1 1/4	0147-012	21.85
1 1/4	0147-012-T	22.56
1 1/2	0147-015	22.52
1 1/2	0147-015-T	23.99
2	0147-020	34.42
2	0147-020-T	36.66
2 1/2	0147-025	56.49
2 1/2	0147-025-T	56.49
3	0147-030	61.34
3	0147-030-T	62.78
4	0147-040	86.92
4	0147-040-T	88.88
6	0147-060	186.77
6	0147-060-T	186.77
8	0147-080	346.96

CLEAR PVC

Size (in.)	Clear PVC soc./thr. Part #	Price $
1/2	0148-005	26.69
1/2	0148-005-T	26.69
3/4	0148-007	27.64
3/4	0148-007-T	27.64
1	0148-010	28.40
1	0148-010-T	28.40
1 1/4	0148-012	29.91
1 1/4	0148-012-T	27.42
1 1/2	0148-015	32.35
1 1/2	0148-015-T	32.35
2	0148-020	46.63
2	0148-020-T	46.63
2 1/2	0148-025	71.52
2 1/2	0148-025-T	71.52
3	0148-030	85.80
3	0148-030-T	79.46
4	0148-040	115.53
4	0148-040-T	106.97
6	0148-060	221.08
6	0148-060-T	221.08
8	0148-080	369.29



CLEAR PVC SWING CHECKMATE

Size (in.)	Clear PVC U x S Part #	Price $
1 1/2	2200C15	35.75
2	2200C20	53.88
2	2280C20	57.74

CLEAR PVC TRUE UNION SWING CHECKMATE

Size (in.)	Clear PVC U x U Part #	Price $
2	2200C20TU	55.93
2*	2280C20TU	62.27

* Spring/Swing Checkmate



CLEAR PVC COMPRESSION SWING CHECK

Size (in.)	Clear PVC UC x UC Part #	Price $
1 1/2	1500C15	39.38
2	1500C20	58.38



CLEAR PVC TRUE UNION SWING CHECK

Size (in.)	Clear PVC U x U Part #	Price $
3/4	1720C07	23.72
1	1720C10	28.00
1 1/2	1720C15	35.57
2	1720C20	48.46
3	1720C30	96.09



Clear PVC True Union Spring Check Valve

Size (in.)	Soc. x Soc. Part #	Spring Tension(lbs.)	Price $
3/4	1700C07	1/2	23.72
1	1700C10	1/2	28.50
1 1/2	1700C15	1/2	41.98
2	1700C20	1/2	57.46
3	1700C30	1/2	111.03
1 1/2	1702C15	2	43.34
2	1702C20	2	59.35



Compact Clear PVC True Union Spring Check Valve

Size (in.)	Soc. x Soc. Part #	Spring Tension(lbs.)	Price $
1 1/2	1790C15	1/2	37.00
2		1/2	50.39
2	1795C20	5	50.39



Clear PVC Spa Check Valve

Size (in.)	Soc. x Spg. Part #	Spring Tension(lbs.)	Price $
1 x 1 1/4	1050C10	1/4	19.52
1 1/2 x 2	1050C20	1/4	20.82
1 1/2 x 2	1050C20-05	1/2	21.49
1 1/2 x 2	1050C20-10	10	21.49
1 1/2 x 2	1050C20-12	12	21.49
1 1/2 x 2	1050C20-15	15	28.27
1 1/2 x 2	1052C20	2	21.49
1 1/2 x 2	1055C20	5	21.49



Gray PVC Inline Adjustable Spring Check Valve

Size (in.)	FPT x FPT Part #	Spring Tension(lbs.)	Price $
1/2	CV-0500-FF	2-14 PSI	10.23
3/4	CV-0750-FF	2-14 PSI	9.89
1	CV-1000-FF	2-14 PSI	15.32

Gray PVC Inline Adjustable Spring Check Valve

Size (in.)	MPT x FPT Part #	Spring Tension(lbs.)	Price $
1/2	CV-0500-MF	2-14 PSI	9.21
3/4	CV-0750-MF	2-14 PSI	9.89
1	CV-1000-MF	2-14 PSI	15.32

Gray PVC Inline Adjustable Spring Check Valve

Size (in.)	FPT x MPT Part #	Spring Tension(lbs.)	Price $
3/4	CV-0750-FM	2-14 PSI	9.89

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Check Valves

Champion Wafer Check Valves



Wafer Style

Champion wafer check valves are designed for installation in flanged piping systems, between two flanges. Valves may be installed in vertical or horizontal piping. Care must be taken to always install the valves with the shafts in a vertical position when installing in a horizontal pipeline. Vertical up flow is always a good installation.

Anti-slam, spring loaded dual disc wafer check valves are suitable for clean liquid and gas applications.

- Size Range: 2" - 72"
- ASME Class 125 - 2500 / API 2000 - 5000
- Wafer, Lug and Double Flange Designs.
- ASME B16.1, B16.5, B16.34, B16.47, and B31.1
- API 594 and 598
- API 6A and 6D
- NACE MR-01-75 Available

Features:

- Light weight, versatile design - 80% to 90% less than conventional full-body swing check valves
- Dual Discs open to 85 degrees
- Spring-loaded discs calculated to increase the responsiveness of the discs
- Extended long-leg spring

Benefits:

- Simplifies piping
- Reduces thermal and seismic considerations
- Optimizes space utilization
- Lowers installation costs
- Reduces pipe supports
- Requires less number of man-hours
- Low cracking pressure and overall pressure drop
- Ensures positive closure
- Alleviates water hammer and damaging effects
- Prevents seat wear caused by scrubbing



Lug Style

Ductile Iron Body / 304 SS Disc EPDM Seat / 316 SS Spring

Size (in.)	ALSCO #	Price $
3	3002-030	164.00
4	3002-040	229.00
6	3002-060	397.00
8	3002-080	730.00
10	3002-100	1207.00
12	3002-120	1735.00

Ductile Iron Body / 316 SS Disc EPDM Seat / 316 SS Spring

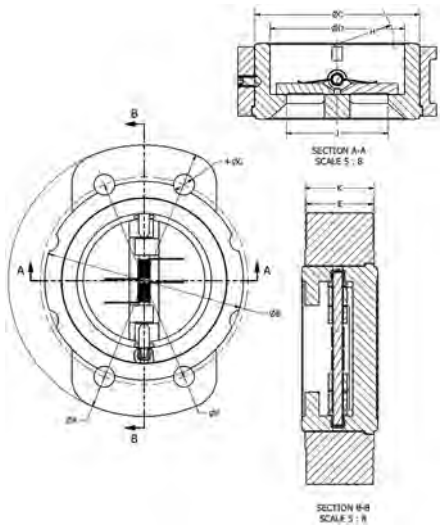
Size (in.)	ALSCO #	Price $
2	3003-020	127.00
3	3003-030	224.00
4	3003-040	279.00
6	3003-060	502.00
8	3003-080	760.00

Champion Model CVL™ Epoxy Coated Dual Disc Wafer Check Valves



Features:

- The Model CVL epoxy coated check valve is available in EPDM (standard), Buna-N, and FPM configurations.
- A fully lined elastomer insert provides complete isolation of the process media from the ductile iron valve body.
- All internal support hardware, including discs, springs, braces and brackets, are manufactured of corrosion-resistant 316 Stainless Steel.
- 2" through 20" body sizes available in ASME Class 150 rating.
- Plate travel stops are integrally molded into the liner to eliminate seams and dissimilar material issues.
- The protruding liner face eliminates the need for flange gaskets.
- The ductile iron valve body is fully coated inside and out with a highly durable layer of epoxy paint.
- All CVL Epoxy Coated Dual Disc Wafer Check Valves are thoroughly tested and inspected to meet our strict ISO 9001 system standards.



NOTE: POA - Price On Application

Dual Disc Wafer Check Valve / Epoxy Coated Ductile Iron Body / 316 SS Disc & Spring / EPDM Seat & Liner

Size (in.)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	K (in.)	Weight (lbs)	GPM	Part #
3	7 1/2	5 1/4	4 9/16	3 5/8	2 1/16	6	3/4	1 5/8	2 3/4	2 1/8	7	201	3CVL15-LSES-P
4	9 1/4	6 3/4	5 5/8	4 5/8	2 7/16	7 1/2	3/4	2 1/8	3 7/16	2 1/2	12	338	4CVL15-LSES-P
6	12	8 3/4	7 7/8	6 3/4	3 1/16	9 1/2	7/8	3 5/32	5 9/16	3 1/8	20	878	6CVL15-LSES-P
8	14 1/2	10 5/8	10	8 3/4	3 13/16	11 3/4	7/8	4 5/32	7 9/16	3 7/8	40	1675	8CVL15-LSES-P
10	16 7/8	13 1/4	12 1/8	10 7/8	3 15/16	14 1/4	1 1/32	5 1/8	9 1/16	4	64	2726	10CVL15-LSES-P
12	19 1/2	16	14 3/8	12 7/8	5 1/16	17	1 1/32	6 1/4	10 13/16	5 1/8	110	4301	12CVL15-LSES-P

Hayward® WCV Full Pattern Wafer Check Valves



NOTE: Hayward Wafer Check valves are available in two types. A lower cost version without a disc spring is available for applications where it is not desirable for the process stream to come in contact with metals. A version with disc spring is recommended for pulsating flow and horizontal piping applications where faster disc closure is required to reduce the amount of backflow and possible water hammer.

The new patent-pending WCV Series Full Pattern Wafer Check Valve features a robust thermoplastic construction with industry leading flow rates, and eliminates the need for spacers or specialty flanges.

Made from thermoplastic materials, the WCV has a lighter weight than a metal equivalent and excellent corrosion resistance. The unique angle seat and disc seat allows for high flow rates and excellent sealing properties. No exposed fasteners or clips in the media to retain the disc which can break off in the line.

Designed also for global use, the WCV fits ANSI and DIN/EN flange patterns. It also provides a pressure rating of 150 PSI across all sizes where most other plastic wafer check or swing check valves do not. Best of all, the WCV is made in the U.S.A.!

Features:
- Available in PVC and CPVC
- FPM or EPDM Gasket and Face Seal
- Sizes 2" to 8"
- No need for spacers or specialty flanges
- One-piece Disc and Shaft design
- Designed for ANSI150 and PN10 flanges
- Vertical or Horizontal Operation
- Pressure rated to 150PSI / PN10 in all sizes
- Contoured Inlet Port for easy flow
- High Cv rating equal to metal check valves, saves on energy and pump wear.
- Integral bolt eyes for ease of installation

Options:
- 316 Stainless Steel or Hastelloy® Disc Spring

Applications:
- Water & Wastewater treatment
- Water / Theme Parks
- Aquatic and Animal Life Support Systems
- Chemical Processing
- Marine & Corrosive Environments
- Mining
- Landfills

PVC / With Spring - O-Ring / Spring Material

Size (in.)	EPDM/SS Part #	Price $	FPM/SS Part #	Price $	FPM/ Hastelloy Part #	Price $
2	5270-020	285.30	5271-020	298.60	5272-020	406.35
2 1/2	5270-025	332.00	5271-025	351.20	5272-025	490.30
3	5270-030	383.65	5271-030	418.05	5272-030	580.60
4	5270-040	438.90	5271-040	491.75	5272-040	683.00
6	5270-060	626.95	5271-060	694.50	5272-060	964.70
8	5270-080	1237.90	5271-080	1321.40	5272-080	1835.10

PVC / No Spring - O-Ring

Size (in.)	EPDM Part #	Price $	FPM Part #	Price $
2	5273-020	245.35	5274-020	256.80
2 1/2	5273-025	285.55	5274-025	302.05
3	5273-030	329.90	5274-030	359.55
4	5273-040	377.55	5274-040	422.95
6	5273-060	539.25	5274-060	597.35
8	5273-080	1064.60	5274-080	1136.40

CPVC / With Spring - O-Ring / Spring Material

Size (in.)	EPDM/SS Part #	Price $	FPM/SS Part #	Price $	FPM/ Hastelloy Part #	Price $
2	5289-020	356.55	5290-020	373.10	5291-020	520.90
2 1/2	5289-025	415.00	5290-025	438.90	5291-025	628.55
3	5289-030	491.75	5290-030	542.85	5291-030	744.20
4	5289-040	562.70	5290-040	614.65	5291-040	843.20
6	5289-060	783.65	5290-060	868.20	5291-060	1190.80
8	5289-080	1547.25	5290-080	1651.80	5291-080	2293.95

CPVC / No Spring - O-Ring

Size (in.)	EPDM Part #	Price $	FPM Part #	Price $
2	5292-020	306.60	5293-020	320.90
2 1/2	5292-025	356.90	5293-025	377.55
3	5292-030	434.10	5293-030	460.95
4	5292-040	484.05	5293-040	522.10
6	5292-060	673.95	5293-060	719.65
8	5292-080	1330.60	5293-080	1420.50

Check Valves

Hayward® WC Wafer Check Valve



Features:
- Available in PVC, PP, and PVDF
- FPM, EPDM and PTFE O-Ring Seats
- Sizes 2" to 20"
- Compact and Light Weight
- Vertical or Horizontal Operation
- Easy installation

Options:
- Spacers
- Stainless Steel or Hastelloy® Disc Springs

NOTE: Hayward Wafer Check valves are available in two types. A lower cost version without a disc spring is available for applications where it is not desirable for the process stream to come in contact with metals. A version with disc spring is recommended for pulsating flow and horizontal piping applications where faster disc closure is required to reduce the amount of backflow and possible water hammer.

PVC / With Spring - O-Ring / Spring Material

Size (in.)	EPDM/SS Part #	Price $	FPM/SS Part #	Price $	FPM/Hastelloy Part #	Price $
10	5270-100	2116.95	5271-100	2425.70	5272-100	2648.55
12	5270-120	2768.05	5271-120	3174.30	5272-120	3463.10
14	5270-140	7571.05	5271-140	7571.05	N/A	N/A

PVC / No Spring - O-Ring

Size (in.)	EPDM Part #	Price $	FPM Part #	Price $	PTFE Part #	Price $
10	5273-100	1999.45	5274-100	2264.25	5275-100	2445.55
12	5273-120	2616.90	5274-120	3023.05	5275-120	3174.30
14	5273-140	4721.50	5274-140	4721.50	N/A	N/A

PP / With Spring - O-Ring / Spring Material

Size (in.)	EPDM/SS Part #	Price $	FPM/SS Part #	Price $	FPM/Hastelloy Part #	Price $
10	5276-100	2340.50	5277-100	2706.85	5278-100	2919.30
12	5276-120	3519.50	5277-120	3959.40	5278-120	3790.40
14	5276-140	8239.55	5277-140	8239.55	N/A	N/A

PP / No Spring - O-Ring

Size (in.)	EPDM Part #	Price $	FPM Part #	Price $	PTFE Part #	Price $
10	5279-100	2137.00	5280-100	2505.40	5281-100	2704.95
12	5279-120	2871.65	5280-120	3311.40	5281-120	3476.20
14	5279-140	5138.45	5280-140	5138.45	N/A	N/A

PVC Spacers

Size (in.)	Part #	Price $
10	5286-100	1266.75
12	5286-120	1900.05
14	5286-140	POA

PP Spacers

Size (in.)	Part #	Price $
10	5287-100	POA
12	5287-120	POA

PVDF Spacers

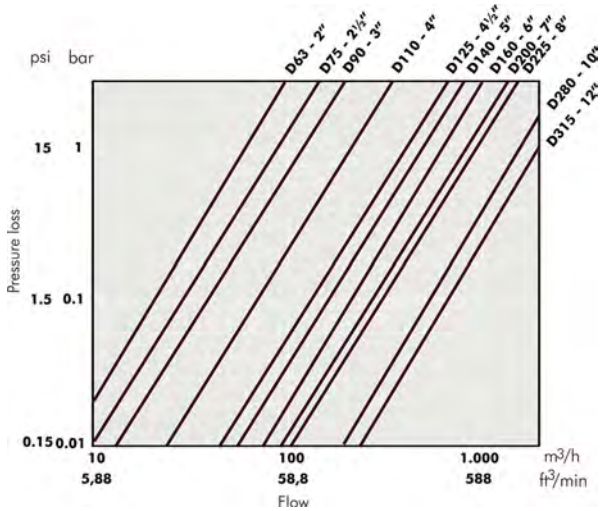
Size (in.)	Part #	Price $	Size (in.)	Part #	Price $
2	5288-020	253.80	5	5288-050	1409.55
2 1/2	5288-025	331.70	6	5288-060	1658.20
3	5288-030	472.70	8	5288-080	2139.00
4	5288-040	663.35			

Cepex™ Wafer Check Valves



Features:
- Requires little space in piping systems.
- Easy installation: wafer body slips between standard flanges. No gaskets required.
- Vertical and horizontal operation.
- PVC-U body
- O-rings in EPDM (FPM upon request)
- Excellent flow characteristics.
- Sizes from 4"- 8".
- Available Standards: ISO/DIN, ANSI/ASTM.
- Minimum return pressure: 3 psi.

NOTE: Do not install the valve at a distance lower than 5 x D of the pump out. Install with pipe and flange DIN PN 10.



Working pressure at 73° F water temperature:
- 4": 150 psi
- 6" - 8": 90 psi

PVC / EPDM

Size (in.)	ALSCO #	Price $
4	5253-040	214.49
6	5253-060	241.38
8	5253-080	268.16

Vacuum Breakers

Plast-O-Matic® Vacuum Breakers - Series VB, VBM and VBS



VB / VBM



VBS

Protective vacuum breakers eliminate unwanted siphonage or collapsing of storage tanks. Sensitive molded diaphragm offers normally closed operation and will respond to a minimum of vacuum; however, they are not recommended for protection of thin-wall tanks. Sizes 1/2", 3/4" and 1" NPT. New Series VBS features normally-closed design, higher capacity in sizes 1 1/2", 2", 3" and 4" NPT.

Series VB Vacuum Breakers - PTFE Only

PTFE / FKM

Size (in.)	ALSCO #	Price $
3/4	2549-007-V	517.00
1	2549-010-V	540.00

PTFE / EPDM

Size (in.)	ALSCO #	Price $
3/4	2549-007-EP	511.00
1	2549-010-EP	534.00

Series VBM Vacuum Breakers

PVC / FKM

Size (in.)	ALSCO #	Price $
1/2	2546-005-V	114.00
3/4	2546-007-V	135.00
1	2546-010-V	156.00

CPVC / FKM

Size (in.)	ALSCO #	Price $
1/2	2559-005-V	181.00
3/4	2559-007-V	221.00
1	2559-010-V	254.00

PP / FKM

Size (in.)	ALSCO #	Price $
1/2	2547-005-V	169.00
3/4	2547-007-V	205.00
1	2547-010-V	244.00

PVDF / FKM

Size (in.)	ALSCO #	Price $
1/2	2548-005-V	308.00
3/4	2548-007-V	437.00
1	2548-010-V	497.00

PVC / EPDM

Size (in.)	ALSCO #	Price $
1/2	2546-005-EP	109.00
3/4	2546-007-EP	130.00
1	2546-010-EP	151.00

CPVC / EPDM

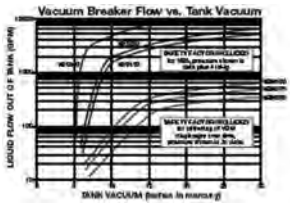
Size (in.)	ALSCO #	Price $
1/2	2559-005-EP	174.00
3/4	2559-007-EP	215.00
1	2559-010-EP	247.00

PP / EPDM

Size (in.)	ALSCO #	Price $
1/2	2547-005-EP	164.00
3/4	2547-007-EP	199.00
1	2547-010-EP	239.00

PVDF / EPDM

Size (in.)	ALSCO #	Price $
1/2	2548-005-EP	300.00
3/4	2548-007-EP	430.00
1	2548-010-EP	479.00



1. The above graph relates liquid flow leaving an enclosed tank to the resulting vacuum created in the tank as air is entering the tank through the Vacuum Breakers. A safety factor of 3.5 times is used in constructing the graph.
2. To use the graph determine the rate of flow when draining the tank and from that location on the vertical axis read across to the graph of the proper vacuum breaker size. At this intersection of the graph read down to the horizontal axis and determine the vacuum for the tank. This is the recommended vacuum rating of the tank which must be checked with the tank manufacturer's rating to be sure the tank is strong enough.

Series VBS Vacuum Breakers

PVC / FKM

Size (in.)	ALSCO #	Price $
1 1/2	2551-015-V	351.00
2	2551-020-V	452.00
3	2551-030-V	860.00
4	2551-040-V	1138.00

CPVC / FKM

Size (in.)	ALSCO #	Price $
1 1/2	2552-015-V	501.00
2	2552-020-V	665.00
3	2552-030-V	1268.00
4	2552-040-V	2018.00

PP / FKM

Size (in.)	ALSCO #	Price $
1 1/2	2553-015-V	481.00
2	2553-020-V	586.00
3	2553-030-V	1123.00
4	2553-040-V	1493.00

PVDF / FKM

Size (in.)	ALSCO #	Price $
1 1/2	2554-015-V	1420.00
2	2554-020-V	1797.00
3	2554-030-V	3370.00
4	2554-040-V	4600.00

PVC / EPDM

Size (in.)	ALSCO #	Price $
1 1/2	2551-015-EP	345.00
2	2551-020-EP	446.00
3	2551-030-EP	839.00
4	2551-040-EP	1107.00

CPVC / EPDM

Size (in.)	ALSCO #	Price $
1 1/2	2552-015-EP	494.00
2	2552-020-EP	658.00
3	2552-030-EP	1260.00
4	2552-040-EP	1987.00

PP / EPDM

Size (in.)	ALSCO #	Price $
1 1/2	2553-015-EP	474.00
2	2553-020-EP	565.00
3	2553-030-EP	1107.00
4	2553-040-EP	1425.00

PVDF / EPDM

Size (in.)	ALSCO #	Price $
1 1/2	2554-015-EP	1409.00
2	2554-020-EP	1788.00
3	2554-030-EP	3360.00
4	2554-040-EP	4377.00

HAYWARD® Vacuum Breaker



Features

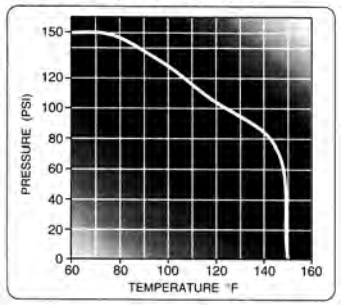
- Venting of tanks & piping systems
- Advance design for fast draining
- Easy installation
- Eliminates siphoning problems
- Compact
- No metal parts to stick or jam

Specifications

- Body material: PVC
- Membrane: Fpm
- Piping connection: 3/4" NPT
- Tank connection: 1 1/2" Bulkhead Fit.
- Max. pressure: 150 psi @ 70°F

Operation: Normally closed, automatically opens when subjected to a vacuum and closes at positive pressures.

Temperature/Pressure Chart

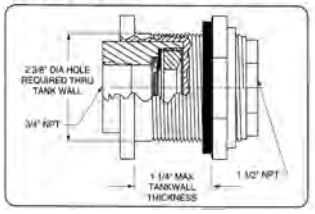


Easy to Install onto Tanks

Just solvent-weld the vacuum breaker into the socket connection of a standard Hayward 1 1/2" bulkhead fitting. Then install the bulk-head onto the tank. No extra piping is needed.



Vacuum Breaker Installed in Bulkhead



Size (in.)	End Connect	ALSCO #	Price $
3/4	Threaded	2550	195.90

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 051419

Ventilating and Bleed Valves

GF Type 591 & 595 Ventilating and Bleed Valves*



The new venting valves from GF Piping Systems are now even more reliable; every detail has been exceptionally well thought out.

An innovative PP-H (PVDF) float on the air and venting valve type 591 has a very low density of 0.91 g/cm³ and ensures complete and reliable venting of the pipe system. At the same time, the valve prevents media overflow. The venting valve type 595 is used wherever safe and controlled air inlet is a must, for example when emptying tanks.

Thanks to a comprehensive product range, the valve types 591 and 595 easily fit in all common plastic piping systems, worldwide.

Model:
- Type 591 ventilating and bleed
- Type 595 ventilating
- With protection cap up to DN50 made from PP-GF, DN65-100 made from POM
- Floater made of PP-H
- Designed for easy installation and removal
- Compact installation length

NOTE: *NIS (Not in System)
Type 591 & 595 Ventilating and Bleed Valves are Not in System.
POA: Price On Application

Advantages:
- Self-acting bleeding and venting
- No auxiliary energy required to operate the valve
- Wide selection of material for best chemical resistance
- Complete and reliable venting of pipeline systems
- Controlled air supply
- High efficiency and precision

4

PVC / EPDM / Solvent Cement Sockets Inch ASTM / Threaded Valve Ends NPT

Size (in.)	PSI	591 Ventilating & Bleed Part #	Price $	595 Ventilating Part #	Price $
3/8	240	161 591 101	71.00	161 595 101	POA
1/2	240	161 591 102	71.00	161 595 102	POA
3/4	240	161 591 103	94.00	161 595 103	POA
1	240	161 591 104	115.00	161 595 104	POA
1 1/4	240	161 591 105	139.00	161 595 105	POA
1 1/2	240	161 591 106	216.00	161 595 106	POA
2	240	161 591 107	308.00	161 595 107	POA
2 1/2	240	161 591 108	494.00	161 595 108	POA
3	240	161 591 109	617.00	161 595 109	POA
4	240	161 591 110	739.00	161 595 110	POA

PVC / FPM / Solvent Cement Sockets Inch ASTM / Threaded Valve Ends NPT

Size (in.)	PSI	591 Ventilating & Bleed Part #	Price $	595 Ventilating Part #	Price $
3/8	240	161 591 111	85.00	161 595 111	POA
1/2	240	161 591 112	85.00	161 595 112	POA
3/4	240	161 591 113	112.00	161 595 113	POA
1	240	161 591 114	138.00	161 595 114	POA
1 1/4	240	161 591 115	168.00	161 595 115	POA
1 1/2	240	161 591 116	260.00	161 595 116	POA
2	240	161 591 117	370.00	161 595 117	POA
2 1/2	240	161 591 118	592.00	161 595 118	POA
3	240	161 591 119	739.00	161 595 119	POA
4	240	161 591 120	888.00	161 595 120	POA

CPVC / EPDM / Solvent Cement Sockets Inch ASTM / Threaded Valve Ends NPT

Size (in.)	PSI	591 Ventilating & Bleed Part #	Price $	595 Ventilating Part #	Price $
3/8	240	163 591 101	150.00	163 595 101	POA
1/2	240	163 591 102	150.00	163 595 102	POA
3/4	240	163 591 103	205.00	163 595 103	POA
1	240	163 591 104	287.00	163 595 104	POA
1 1/4	240	163 591 105	414.00	163 595 105	POA
1 1/2	240	163 591 106	543.00	163 595 106	POA
2	240	163 591 107	688.00	163 595 107	POA
2 1/2	240	163 591 108	1100.00	163 595 108	POA
3	240	163 591 109	1376.00	163 595 109	POA
4	240	163 591 110	1652.00	163 595 110	POA

CPVC / FPM / Solvent Cement Sockets Inch ASTM / Threaded Valve Ends NPT

Size (in.)	PSI	591 Ventilating & Bleed Part #	Price $	595 Ventilating Part #	Price $
3/8	240	163 591 111	180.00	163 595 111	POA
1/2	240	163 591 112	180.00	163 595 112	POA
3/4	240	163 591 113	246.00	163 595 113	POA
1	240	163 591 114	344.00	163 595 114	POA
1 1/4	240	163 591 115	497.00	163 595 115	POA
1 1/2	240	163 591 116	652.00	163 595 116	POA
2	240	163 591 117	826.00	163 595 117	POA
2 1/2	240	163 591 118	1322.00	163 595 118	POA
3	240	163 591 119	1652.00	163 595 119	POA
4	240	163 591 120	1982.00	163 595 120	POA

PP / EPDM / Fusion Sockets

Size (in.)	PSI	591 Ventilating & Bleed Part #	Price $	595 Ventilating Part #	Price $
3/8	150	167 591 001	139.00	167 595 001	POA
1/2	150	167 591 002	139.00	167 595 002	POA
3/4	150	167 591 003	173.00	167 595 003	POA
1	150	167 591 004	218.00	167 595 004	POA
1 1/4	150	167 591 005	260.00	167 595 005	POA
1 1/2	150	167 591 006	368.00	167 595 006	POA
2	150	167 591 007	540.00	167 595 007	POA
2 1/2	150	167 591 008	864.00	167 595 008	POA
3	150	167 591 009	1080.00	167 595 009	POA
4	150	167 591 010	1296.00	167 595 010	POA

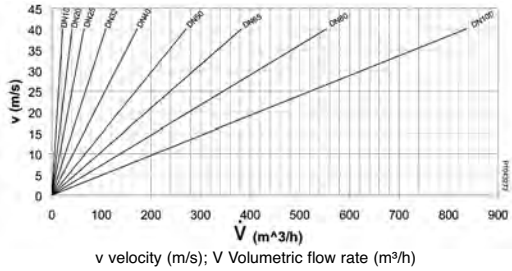
PP / FPM / Fusion Sockets

Size (in.)	PSI	591 Ventilating & Bleed Part #	Price $	595 Ventilating Part #	Price $
3/8	150	167 591 011	168.00	167 595 011	POA
1/2	150	167 591 012	168.00	167 595 012	POA
3/4	150	167 591 013	207.00	167 595 013	POA
1	150	167 591 014	262.00	167 595 014	POA
1 1/4	150	167 591 015	311.00	167 595 015	POA
1 1/2	150	167 591 016	441.00	167 595 016	POA
2	150	167 591 017	648.00	167 595 017	POA
2 1/2	150	167 591 018	1037.00	167 595 018	POA
3	150	167 591 019	1296.00	167 595 019	POA
4	150	167 591 020	1555.00	167 595 020	POA

PVDF / FPM / Fusion Sockets

Size (in.)	PSI	591 Ventilating & Bleed Part #	Price $	595 Ventilating Part #	Price $
3/8	150	175 591 011	513.00	175 595 011	POA
1/2	150	175 591 012	517.00	175 595 012	POA
3/4	150	175 591 013	637.00	175 595 013	POA
1	150	175 591 014	749.00	175 595 014	POA
1 1/4	150	175 591 015	1234.00	175 595 015	POA
1 1/2	150	175 591 016	1331.00	175 595 016	POA
2	150	175 591 017	2245.00	175 595 017	POA
2 1/2	150	175 591 018	4491.00	175 595 018	POA
3	150	175 591 019	5614.00	175 595 019	POA
4	150	175 591 020	6735.00	175 595 020	POA

Air Volume Characteristics Type 591 and 595



v velocity (m/s); V Volumetric flow rate (m³/h)

Ventilating and Bleed Valves

Plast-O-Matic® Air Release Valves - Series ARV



Description:
Series ARV is a normally-open valve. Until your system is pressurized, the valve is simply open, and air is present. As pressure builds within the system, unwanted air is forced to the highest point in the system, i.e., the normally-open air release valve. When pressure within the system exceeds atmospheric pressure, air is expelled. As liquid rises, the poppet becomes buoyant and eventually closes. (Note, minimum specific gravity of liquid must be .9 or higher). It is possible that trace amounts of air will remain in the system, depending on the rapidity with which the valve closes. It is also likely that some trace amounts of process liquid will be emitted. At system pressure of 10 PSI (with EPDM elastomer), the poppet will seal bubble-tight against the orifice. When pressure and liquid level drop, the valve will automatically re-open.

Features:
- Allows safe expulsion of unwanted air in piping system.
- Unique self-guided poppet assures minimal emission of system liquid prior to sealing.
- Union simplifies valve inspection/removal with minimum piping breakdown.
- Closes at 0 PSI, as long as liquid is present. Valve closes as liquid rises, after virtually all unwanted air is forced out. Seals bubble-tight at system pressures as low as 10 psi (EPDM seals).
- Designed to improve system performance and competitively priced.
- Superior Design Poppet seals more reliably than ball design; does not deform under pressure like a hollow ball.
- Top quality thermoplastics and elastomers resist chemical attack and protect system purity. No metal components in Series ARV.

PVC / EPDM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	0346-005-EP	196.00
3/4	0346-007-EP	204.00
1	0346-010-EP	225.00
1 1/4	0346-012-EP	315.00
1 1/2	0346-015-EP	348.00
2	0346-020-EP	414.00
3	0346-030-EP	795.00
4	0346-040-EP	988.00

PVC / FKM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	0346-005-V	202.00
3/4	0346-007-V	211.00
1	0346-010-V	231.00
1 1/4	0346-012-V	320.00
1 1/2	0346-015-V	353.00
2	0346-020-V	419.00
3	0346-030-V	800.00
4	0346-040-V	993.00

CPVC / EPDM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	0347-005-EP	245.00
3/4	0347-007-EP	260.00
1	0347-010-EP	272.00
1 1/4	0347-012-EP	425.00
1 1/2	0347-015-EP	458.00
2	0347-020-EP	464.00
3	0347-030-EP	1087.00
4	0347-040-EP	1926.00

CPVC / FKM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	0347-005-V	251.00
3/4	0347-007-V	266.00
1	0347-010-V	278.00
1 1/4	0347-012-V	430.00
1 1/2	0347-015-V	464.00
2	0347-020-V	469.00
3	0347-030-V	1093.00
4	0347-040-V	1932.00

Plast-O-Matic® Degassing Valves - Series DGV



Description:
Series DGV automatic venting valves will continuously vent gases for a liquid-carrying pipe line or vessel. This is a float operated valve which opens when the liquid level falls (indicating presence of gas) and closes when the gas has been evacuated as the liquid level rises. This valve will automatically vent gas collected over liquid to a pressure of 100 PSI.

Features:
- Reduces replacement costs - no internal or external metal components; ideal for aggressive environments.
- Placed at the high point of a piping system, this innovative valve will vent gas as it occurs. A unique float/actuating lever allows the vent orifice to open when gas is present. After gas vents, liquid forces the vent to close. Whenever gas accumulates, the valve will re-open until the gas is vented.
- All-plastic construction designed for sodium hypochlorite, ozone systems, or any liquids prone to outgassing.
- Series DGV is designed for systems that continuously generate trace amounts of gasses. For system start-up requiring rapid expulsion of larger volume of air or gasses, see Series ARV.

PVC / EPDM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050EP-PV	324.00

CPVC / EPDM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050EP-CP	400.00

PP / EPDM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050EP-PP	379.00

PVDF / EPDM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050EP-PF	881.00

PVC / FKM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050V-PV	333.00

CPVC / FKM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050V-CP	403.00

PP / FKM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050V-PP	385.00

PVDF / FKM / THREADED

Size (in.)	ALSCO Part #	Price $
1/2	DGV050V-PF	888.00

Ventilating and Bleed Valves

Cepex® Air/Vacuum Relief Valve



Air/Vacuum Relief Valve

Size (in.)	Part #	Price $
1 1/2	22803	38.30

The Cepex® air/vacuum relief valve is to introduce or to evacuate air from a system. When air is present within a pipe, it can block the flow of the fluid and it can even create water hammers. Pipe can also suffer from flattening because of the lack of air.

Features:
- Mainly used in irrigation systems.
- Available in 1 1/2".
- PVC-U body with double action EPDM joint.
- Double benefit: this valve extracts the air from pipes as they fill with fluid and protects them against crushing by allowing atmospheric air to enter at even the slightest drop in pressure.
- Specially indicated in facilities with slope changes and facilities with large sections (500 m / 1,640 ft or more).
- Working pressure: 180 PSI.
- DN 40.

Hayward Air Release Valves - Series AR

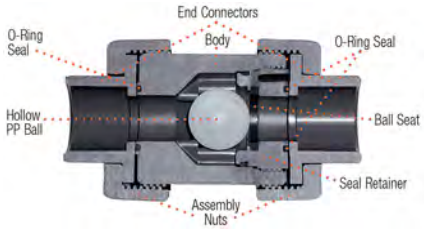


Description:
AR Series air release valves are available in PVC only and have FPM seals only. Size is 3/4 in. and comes with socket and threaded end connections. All valves are assembled with silicone free lubricant. One Air Release Valve will vent a tank with flows of up to 150 GPM (either in or out). For higher flow rates, use additional Air Release Valves.

Features:
- PVC Body with PP Ball
- Reliable Tank Air Venting
- Prevents Tank Overflow
- Hollow, Floating Ball Design
- Closes at 0 PSI
- FPM or EPDM Seals
- Standard Screen

PVC / FPM

Size (in.)	ALSCO Part # Socket & Threaded	Price $
3/4	3836-007	241.15



All prices subject to change without notice.

Butterfly Valves

Delta-T Series 050/051 and 650/651

The Products Series 050/051 and 650/651 resilient seated butterfly valves are designed for use in ASME Class 150 piping systems and are available in wafer and lug configurations. The standard size ranges for these series is as follows: 050/051 Wafer: 1-1/2 - 24" and Lug: 2" - 24", 650-651 Wafer: 2" - 24" and Lug: 2" - 24". Additional sizes thru 48" are available in Series 050/051, as well as double flanged versions.

Delta-T resilient-seated butterfly valves are used widely throughout the fluid flow industry because they are versatile, easy to automate, and cost effective. They are quick to install and can provide bidirectional shutoff with only quarter-turn actuation, or even operate as modulating valves. However, the functionality of a butterfly valve is greatly dependent on the seat, which typically provides the seal between the pipe flanges and for the valve disc.

The booted or dovetail style uses a geometric "dovetail" shape to mechanically mate with the inner diameter of the valve body. Because the fit is not physically bonded, the seat is easily removable but is prone to movement or deformation when mounting between flanges. The molded style seat is bonded directly to the body of the valve through an injection molding process. The elastomer is typically applied to the inner diameter of the cast valve body without prior machining, allowing normal variations from the casting process to affect the dimensional uniformity of the seat. The cartridge style seat improves upon the molded style by making the seat replaceable and with better manufacturing tolerances. A layer of elastomer is compression molded onto a rigid phenolic backing ring, which supports the elastomer in multiple directions. The compression molding process is the most consistent method available, providing constant pressure to form the seat shape and therefore maintaining tighter control of the seat dimensions.

Features And Benefits

- Sizes 2" - 24" available from stock, wafer or lug
- Lug-style dead end service capabilities through 12":
  - 200 PSI uni-directional
  - 100 PSI bi-directional
- Install between Standard ANSI class 125/150 flanges
- ISO 5211 square drive shaft for easy automation
- Conforms to MSS-SP-67, MSS-SP-25, API–609
- Designed for blowout-proof service
- High-Cv slim disc & 2-piece stem design 2"-12"
- Field repairable
- Vacuum service capable 2" thru 12" to 10 microns
- Dead end service for 650/651 Series coming soon
- CRN registration

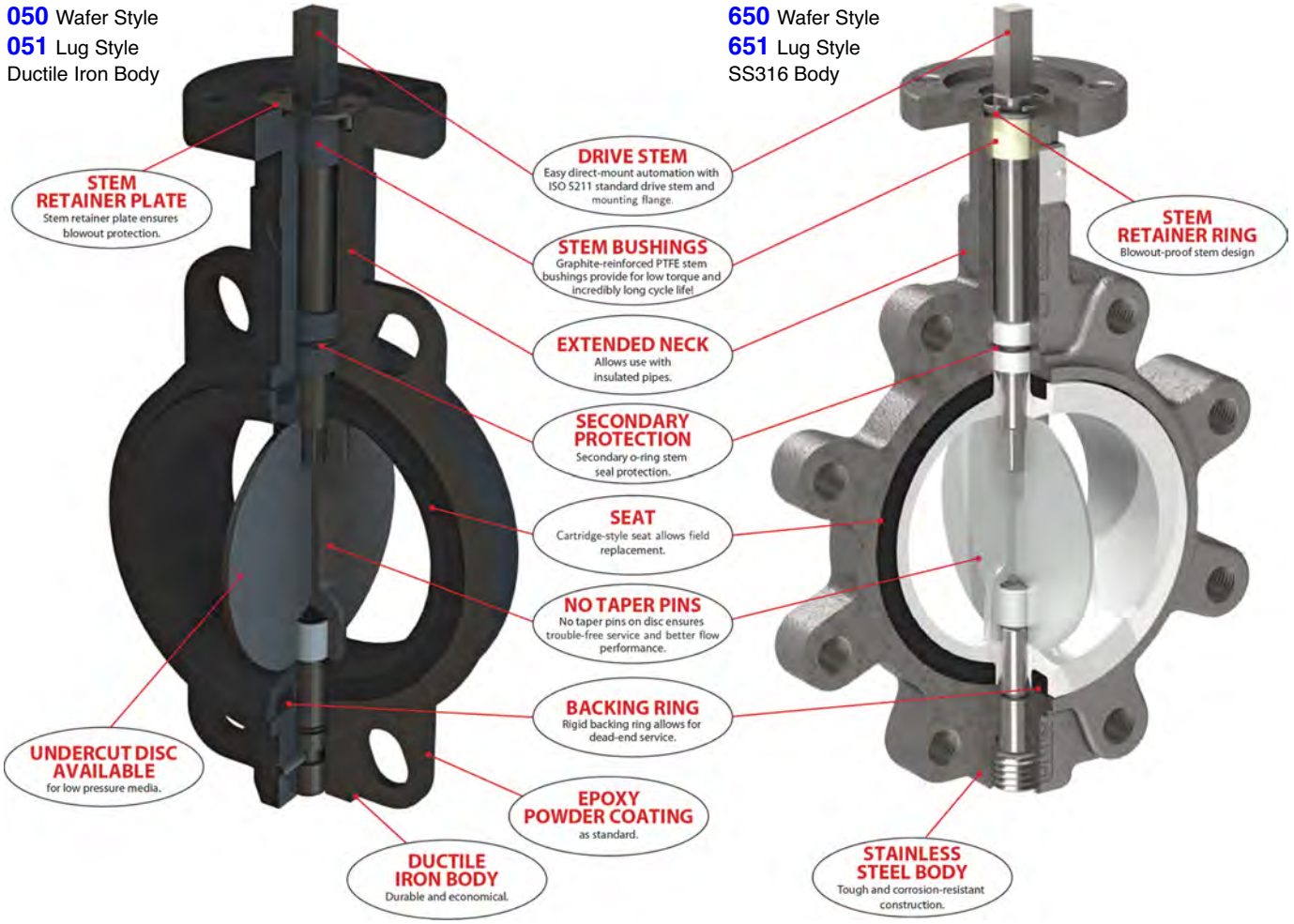
Multiple Configurations Available
Contact a Sales Representative for inquires at
1-800-849-3030

NSF/ANSI 372

Meeting the Industry's Low Lead-free Requirements

050 Wafer Style
051 Lug Style
Ductile Iron Body

650 Wafer Style
651 Lug Style
SS316 Body



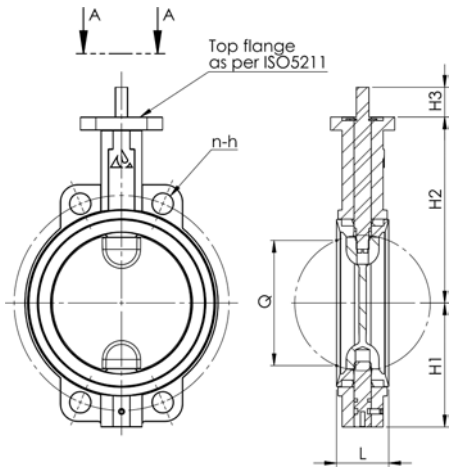
Butterfly Valves

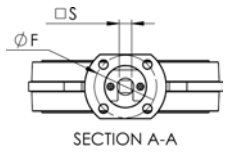
Delta-T Series 050 Wafer Style Ductile Iron Body



Features and Benefits

- Sizes 1 1/2" - 48" wafer
- 200 PSI max pressure rating
- PTFE seats max rated pressure to 150 PSI
- Install between Standard ANSI class 125/150 flanges
- ISO 5211 square drive shaft for easy automation
- Conforms to MSS-SP-67, MSS-SP-25, API–609
- Designed for blowout-proof service
- High-Cv slim disc and 2-piece stem design 2"-12"
- Field repairable
- Vacuum service capable 2" thru 12" to 10 microns
- CRN registration





Standards:

- Valves designed to API-609, MSS-SP-67, SM-SP-25
- Install between standard ANSI Class 125/150 Flanges

4

Technical Specifications	
Nominal Size (in.)	2" thru 12"
Nominal Pressure	200 psi (PTFE only 150 psi)
Body Test Pressure	300 psi (PTFE only 225 psi)
Sealing Test Pressure	220 psi (PTFE only 165 psi)
Application Temp.	EPDM < 250°F, BUNA < 220°F
Body Material	Cast or Ductile Iron
Disc Material	Various (NP-DI, AB, SS, NY11)
Shaft Material	SS416 to ASTM A276

Size (in.)	L	Q	D1	D2	n-h (mm)	H1	H2	H3	S (mm)	F (mm)	ISO
2	1.69	1.13	4.75	3.82	4-22	2.60	5.12	1.18	9	50	F05
2 1/2	1.81	1.79	5.50	4.45	4-18	3.23	5.55	1.18	9	50	F05
3	1.81	2.45	6.00	4.92	8-18	3.54	5.83	1.18	9	50	F05
4	2.05	3.50	7.50	6.14	4-18	4.25	6.69	1.18	11	70	F07
5	2.20	4.55	8.50	7.36	4-22	4.84	7.36	1.18	14	70	F07
6	2.20	5.71	9.50	8.46	4-22	5.43	7.95	1.18	14	70	F07
8	2.36	7.77	11.75	10.51	4-26	6.69	9.37	1.42	17	102	F10
10	2.68	9.76	14.25	13.00	4-26	7.87	10.71	1.42	22	102	F10
12	3.07	11.73	17.00	15.25	4-26	9.29	12.01	1.42	22	102	F10

Multiple Configurations Available
Contact a Sales Representative for inquires at
1-800-849-3030



Bare Stem



10° Position Lever Handle



Manual Gear Operator



Pneumatic MT Series
Spring Return



Electric AE Series
120 VAC

Series 050 - Wafer Style Ductile Iron Body Butterfly Valve - Polished SS316 Disc / SS416 Stem / EPDM Seat

Size (in.)	Bare Stem	Price $	10° Position Lever Handle	Price $	Manual Gear Operator	Price $	Pneumatic MT Series Spring Return	Price $	Electric AE Series 120 VAC	Price $
2	501-020	51.00	502-020	59.00	503-020	126.00	504-020	308.00	505-020	482.00
2 1/2	501-025	60.00	502-025	68.00	503-025	135.00	504-025	347.00	505-025	491.00
3	501-030	70.00	502-030	78.00	503-030	145.00	504-030	389.00	505-030	625.00
4	501-040	110.00	502-040	118.00	503-040	185.00	504-040	562.00	505-040	956.00
5	501-050	152.00	502-050	160.00	503-050	234.00	504-050	759.00	505-050	997.00
6	501-060	196.00	502-060	204.00	503-060	278.00	504-060	1105.00	505-060	1062.00
8	501-080	353.00	502-080	369.00	503-080	481.00	504-080	1381.00	505-080	1801.00
10	501-100	612.00	502-100	632.00	503-100	740.00	504-100	2468.00	505-100	2093.00
12	501-120	899.00	502-120	919.00	503-120	1108.00	504-120	2880.00	505-120	2540.00

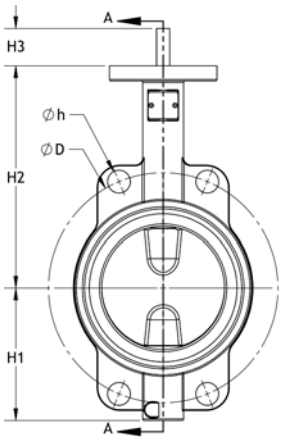
Butterfly Valves

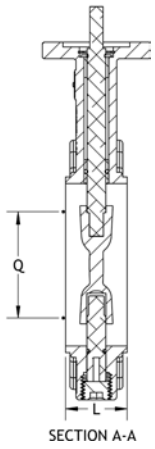
Delta-T Series 650 Wafer Style Stainless Steel Body



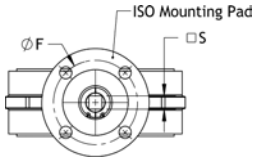
Features and Benefits

- Sizes 2" - 24" wafer
- 200 PSI max pressure rating
- PTFE seats max rated pressure to 150 PSI
- Install between Standard ANSI class 125/150 flanges
- ISO 5211 square drive shaft for easy automation
- Conforms to MSS-SP-67, MSS-SP-25, API–609
- Designed for blowout-proof service
- High-Cv slim disc and 2-piece stem design 2"-12"
- Field repairable
- Vacuum service capable 2" thru 12" to 10 microns
- CRN registration





SECTION A-A



Standards:

- Valves designed to API-609, MSS-SP-67, SM-SP-25
- Install between standard ANSI Class 125/150 Flanges
- Top works designed to ISO 5211

Technical Specifications	
Nominal Size (in.)	2" thru 12"
Nominal Pressure	200 psi (PTFE only 150 psi)
Body Test Pressure	300 psi (PTFE only 225 psi)
Sealing Test Pressure	220 psi (PTFE only 165 psi)
Application Temp.	EPDM < 250°F, BUNA < 220°F
Body Material	ASTM A351 grade CF8M/AISI SS316
Disc Material	Various (SS, DI/PTFE, SS/PTFE)
Shaft Material	SS431

Size (in.)	L	Q	n-Øh	D	H1	H2	H3	S (mm)	F (mm)	ISO
2	1.66	1.03	4x 0.75	4.75	3.15	6.14	1.26	9	50	F05
2 1/2	1.76	1.71	4x 0.75	5.50	3.50	6.38	1.26	9	50	F05
3	1.78	2.46	4x 0.75	6.00	3.74	6.69	1.26	11	50	F05
4	2.05	3.56	4x 0.75	7.50	4.49	7.28	1.26	11	70	F07
5	2.14	4.35	4x 0.89	8.50	5.00	8.15	1.26	14	70	F07
6	2.19	5.81	4x 0.89	9.50	5.47	8.50	1.26	14	70	F07
8	2.39	7.66	4x 0.89	11.75	6.89	10.08	1.57	17	102	F10
10	2.58	9.54	4x 1.00	14.25	7.99	9.76	1.57	22	102	F10
12	3.03	11.69	4x 1.00	17.00	9.53	11.02	1.57	22	102	F10

Multiple Configurations Available
Contact a Sales Representative for inquires at
1-800-849-3030



Bare Stem



10° Position Lever Handle



Manual Gear Operator



Pneumatic MT Series Spring Return



Electric AE Series 120 VAC

Series 650 - Wafer Style Stainless Steel Body Butterfly Valve - Polished SS316 Disc / SS431 Stem / EPDM Seat

Size (in.)	Bare Stem	Price $	10° Position Lever Handle	Price $	Manual Gear Operator	Price $	Pneumatic MT Series Spring Return	Price $	Electric AE Series 120 VAC	Price $
2	506-020	228.00	507-020	282.00	508-020	303.00	509-020	507.00	510-020	659.00
2 1/2	506-025	278.00	507-025	332.00	508-025	353.00	509-025	587.00	510-025	709.00
3	506-030	324.00	507-030	378.00	508-030	399.00	509-030	655.00	510-030	879.00
4	506-040	456.00	507-040	510.00	508-040	531.00	509-040	941.00	510-040	1302.00
5	506-050	551.00	507-050	605.00	508-050	633.00	509-050	1173.00	510-050	1397.00
6	506-060	648.00	507-060	702.00	508-060	730.00	509-060	1570.00	510-060	1514.00
8	506-080	1080.00	507-080	1159.00	508-080	1208.00	509-080	2980.00	510-080	2528.00
10	506-100	1391.00	507-100	1470.00	508-100	1519.00	509-100	3291.00	510-100	2872.00
12	506-120	1886.00	507-120	1965.00	508-120	2095.00	509-120	3862.00	510-120	3527.00

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770-941-3030 · 1-800-849-3030 · www.alscoplastics.com · 051419

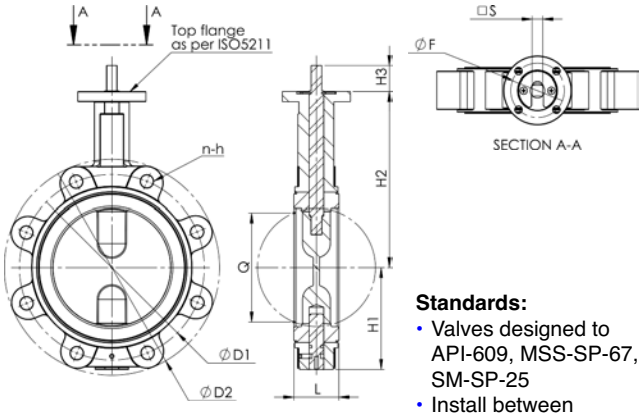
Butterfly Valves

Delta-T Series 051 Lug Style Ductile Iron Body



Features and Benefits

- Sizes 2" - 48" LUG
- Lug-style dead end service capabilities through 12":
  - 200 PSI uni-directional
  - 100 PSI bi-directional
- PTFE seats max rated pressure to 150 PSI
- Install between Standard ANSI class 125/150 flanges
- ISO 5211 square drive shaft for easy automation
- Conforms to MSS-SP-67, MSS-SP-25, API–609
- Designed for blowout-proof service
- High-Cv slim disc and 2-piece stem design 2"-12"
- Field repairable
- Vacuum service capable 2" thru 12" to 10 microns
- CRN registration



Standards:

- Valves designed to API-609, MSS-SP-67, SM-SP-25
- Install between standard ANSI Class 125/150 Flanges

4

Technical Specifications	
Nominal Size (in.)	2" thru 12"
Nominal Pressure	200 psi (PTFE only 150 psi)
Body Test Pressure	300 psi (PTFE only 225 psi)
Sealing Test Pressure	220 psi (PTFE only 165 psi)
Application Temp.	EPDM < 250°F, BUNA < 220°F
Body Material	Cast or Ductile Iron
Disc Material	Various (NP-DI, AB, SS, NY11)
Shaft Material	SS416 to ASTM A276

Size (in.)	L	Q	D1	D2	n-h (mm)	H1	H2	H3	S (mm)	F (mm)	ISO
2	1.69	1.13	4.75	5.95	4-5/8-11 UNC	2.60	5.12	1.18	9	50	F05
2 1/2	1.81	1.79	5.50	6.97	4-5/8-11 UNC	3.23	5.55	1.18	9	50	F05
3	1.81	2.45	6.00	7.23	8-5/8-11 UNC	3.54	5.83	1.18	9	50	F05
4	2.05	3.50	7.50	8.77	8-5/8-11 UNC	4.25	6.69	1.18	11	70	F07
5	2.20	4.55	8.50	9.93	8-3/4-10 UNC	4.84	7.36	1.18	14	70	F07
6	2.20	5.71	9.50	11.02	8-3/4-10 UNC	5.43	7.95	1.18	14	70	F07
8	2.36	7.77	11.75	13.50	8-3/4-10 UNC	6.69	9.37	1.42	17	102	F10
10	2.68	9.76	14.25	16.25	12-7/8-9 UNC	7.87	10.71	1.42	22	102	F10
12	3.07	11.73	17.00	19.09	12-7/8-9 UNC	9.29	12.01	1.42	22	102	F10

Multiple Configurations Available
Contact a Sales Representative for inquires at
1-800-849-3030



Bare Stem



10° Position Lever Handle



Manual Gear Operator



Pneumatic MT Series Spring Return



Electric AE Series 120 VAC

Series 051 - Lug Style Ductile Iron Body Butterfly Valve - Polished SS316 Disc / SS416 Stem / EPDM Seat

Size (in.)	Bare Stem	Price $	10° Position Lever Handle	Price $	Manual Gear Operator	Price $	Pneumatic MT Series Spring Return	Price $	Electric AE Series 120 VAC	Price $
2	511-020	57.00	512-020	65.00	513-020	132.00	514-020	337.00	515-020	488.00
2 1/2	511-025	68.00	512-025	76.00	513-025	143.00	514-025	376.00	515-025	499.00
3	511-030	85.00	512-030	93.00	513-030	160.00	514-030	427.00	515-030	640.00
4	511-040	134.00	512-040	142.00	513-040	209.00	514-040	619.00	515-040	980.00
5	511-050	182.00	512-050	190.00	513-050	264.00	514-050	812.00	515-050	1028.00
6	511-060	229.00	512-060	237.00	513-060	311.00	514-060	1171.00	515-060	1095.00
8	511-080	389.00	512-080	405.00	513-080	517.00	514-080	1427.00	515-080	1837.00
10	511-100	687.00	512-100	707.00	513-100	815.00	514-100	2587.00	515-100	2168.00
12	511-120	987.00	512-120	1007.00	513-120	1196.00	514-120	2968.00	515-120	2628.00

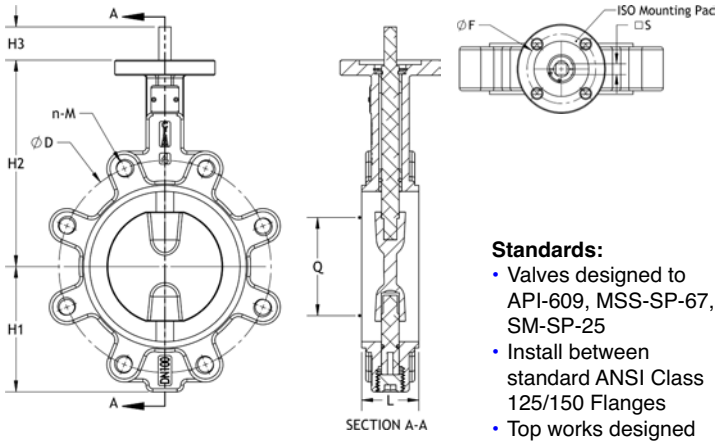
Butterfly Valves

Delta-T Series 651 Lug Style Stainless Steel Body



Features and Benefits

- Sizes 2" - 24" lug
- 200 PSI max pressure rating
- PTFE seats max rated pressure to 150 PSI
- Install between Standard ANSI class 125/150 flanges
- ISO 5211 square drive shaft for easy automation
- Conforms to MSS-SP-67, MSS-SP-25, API–609
- Designed for blowout-proof service
- High-Cv slim disc and 2-piece stem design 2"-12"
- Field repairable
- Vacuum service capable 2" thru 12" to 10 microns
- CRN registration



Standards:

- Valves designed to API-609, MSS-SP-67, SM-SP-25
- Install between standard ANSI Class 125/150 Flanges
- Top works designed to ISO 5211

Technical Specifications	
Nominal Size (in.)	2" thru 12"
Nominal Pressure	200 psi (PTFE only 150 psi)
Body Test Pressure	300 psi (PTFE only 225 psi)
Sealing Test Pressure	220 psi (PTFE only 165 psi)
Application Temp.	EPDM < 250°F, BUNA < 220°F
Body Material	ASTM A351 grade CF8M/AISI SS316
Disc Material	Various (SS, DI/PTFE, SS/PTFE)
Shaft Material	SS431

Size (in.)	L	Q	n-M	D	H1	H2	H3	S (mm)	F (mm)	ISO
2	1.66	1.03	4-5/8-11 UNC	4.75	3.15	6.14	1.26	9	50	F05
2 1/2	1.76	1.71	4-5/8-11 UNC	5.50	3.50	6.38	1.26	9	50	F05
3	1.78	2.46	4-5/8-11 UNC	6.00	3.74	6.69	1.26	11	50	F05
4	2.05	3.56	8-5/8-11 UNC	7.50	4.49	7.28	1.26	11	70	F07
5	2.14	4.35	8-3/4-10 UNC	8.50	5.00	8.15	1.26	14	70	F07
6	2.19	5.81	8-3/4-10 UNC	9.50	5.47	8.50	1.26	14	70	F07
8	2.39	7.66	8-3/4-10 UNC	11.75	6.89	10.08	1.57	17	102	F10
10	2.58	9.54	12-7/8-9 UNC	14.25	7.99	9.76	1.57	22	102	F10
12	3.03	11.69	12-7/8-9 UNC	17.00	9.53	11.02	1.57	22	102	F10

Multiple Configurations Available
Contact a Sales Representative for inquires at
1-800-849-3030



Bare Stem



10° Position Lever Handle



Manual Gear Operator



Pneumatic MT Series Spring Return



Electric AE Series 120 VAC

Series 651 - Lug Style Stainless Steel Body Butterfly Valve - Polished SS316 Disc / SS431 Stem / EPDM Seat

Size (in.)	Bare Stem	Price $	10° Position Lever Handle	Price $	Manual Gear Operator	Price $	Pneumatic MT Series Spring Return	Price $	Electric AE Series 120 VAC	Price $
2	516-020	314.00	517-020	368.00	518-020	389.00	519-020	591.00	520-020	745.00
2 1/2	516-025	378.00	517-025	432.00	518-025	453.00	519-025	687.00	520-025	809.00
3	516-030	409.00	517-030	463.00	518-030	484.00	519-030	740.00	520-030	964.00
4	516-040	607.00	517-040	661.00	518-040	682.00	519-040	1092.00	520-040	1453.00
5	516-050	782.00	517-050	836.00	518-050	864.00	519-050	1404.00	520-050	1628.00
6	516-060	882.00	517-060	936.00	518-060	964.00	519-060	1804.00	520-060	1748.00
8	516-080	1377.00	517-080	1456.00	518-080	1505.00	519-080	3277.00	520-080	2825.00
10	516-100	2051.00	517-100	2130.00	518-100	2179.00	519-100	3951.00	520-100	3532.00
12	516-120	2931.00	517-120	3010.00	518-120	3140.00	519-120	4912.00	520-120	4572.00

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MT Series Anodized Aluminum Pneumatic Actuators



MT Series - Pneumatic Actuators
The MT Series rack and pinion actuators are the next generation of innovation featuring a slimmer body design while maintaining extensive options for easy valve integration, flexible customization, and the same reliable operation, all backed by the industry's best unlimited cycle life warranty. Standard with NAMUR mounting for accessories, along with a patented ±10° adjustment for both the open and closed positions, the MT series is setting the standard.

The pinion presents a double - square female drive to allow a large flexibility in mounting; it allows the assembling on valves stem, or coupling, with square key at 45° or at 90°. On request, the bottom pinion female key may be done as double D or cylindrical with one or two keyways.

Corrosion Resistance Options:
- Aluminum: Anodized with Polyamide Epoxy Coating
- Aluminum: Electroless Nickel Infused
- Aluminum: PTFE Infused SS Mesh "Lock Mesh™"* Coating
- Stainless Steel: ASTM A351 Grade CF8M/SS316

Call 1-800-849-3030 to speak with a sales representative who will assist you in matching the correct actuator to your valve.

MT Series - Spring Return / 4 + 4 Springs / 90° Rotation

Part #	ISO Mounting	Closing Torque (Spring)		Opening Torque (80 PSIG)		Adjustment	Price $
		Start	End	Start	End		
MT16.S4.F05-F07.CH14	14mm/F05, 7	150	107	168	125	+/- 10°	195.26
MT17.S4.F05-F07.CH14	14mm/F05, 7	185	128	232	175	+/- 10°	227.61
MT21.S4.F05-F07.CH17	17mm/F05, 7	245	184	316	255	+/- 10°	246.54
MT26.S4.F05-F07.CH17	17mm/F05, 7	392	247	503	358	+/- 10°	277.42
MT31.S4.F05-F07.CH17	17mm/F05, 7	502	374	626	498	+/- 10°	309.48
MT36.S4.F07-F10.CH22	22mm/F07, 10	824	614	986	776	+/- 10°	441.21
MT41.S4.F07-F10.CH22	22mm/F07, 10	1011	741	1259	989	+/- 10°	539.38
MT46.S4.F07-F10.CH22	22mm/F07, 10	1779	1120	2005	1346	+/- 10°	597.44
MT51.S4.F10-F12.CH27	27mm/F10, 12	2203	1738	2762	2297	+/- 10°	888.48
MT56.S4.F10-F12.CH27	27mm/F10, 12	2974	2111	3889	3026	+/- 10°	1008.12
MT61.S4.F10-F12.CH36	36mm/F10, 14	4293	3422	5678	4807	+/- 10°	1476.65
MT66.S4.F10-F14.CH36	36mm/F10, 14	5619	4269	7831	6381	+/- 10°	1836.45
MT71.S4.F16.CH46	46mm/F16	8493	6136	17364	15007	Travel Stops	4212.71

NOTE: All torques in inch pounds (in-lbs). Other spring combinations of 1+1, 2+2, 3+3, 5+5, 6+6, 7+5, 7+7 and 8+8 available depending on actuator size.

MT Series - Double Acting / 90° Rotation

Part #	ISO Mounting	Torque (80 PSIG)	Adjustment	Price $
MT16.DA.F05-F07.CH14	14mm/F05, 7	275	+/- 10°	145.08
MT17.DA.F05-F07.CH14	14mm/F05, 7	360	+/- 10°	169.84
MT21.DA.F05-F07.CH17	17mm/F05, 7	500	+/- 10°	188.77
MT26.DA.F05-F07.CH17	17mm/F05, 7	750	+/- 10°	215.94
MT31.DA.F05-F07.CH17	17mm/F05, 7	1000	+/- 10°	243.12
MT36.DA.F07-F10.CH22	22mm/F07, 10	1600	+/- 10°	355.14
MT41.DA.F07-F10.CH22	22mm/F07, 10	2000	+/- 10°	439.10
MT46.DA.F07-F10.CH22	22mm/F07, 10	3125	+/- 10°	492.93
MT51.DA.F10-F12.CH27	27mm/F10, 12	4500	+/- 10°	782.38
MT56.DA.F10-F12.CH27	27mm/F10, 12	6000	+/- 10°	915.32
MT61.DA.F10-F12.CH36	36mm/F10, 14	9100	+/- 10°	1285.82
MT66.DA.F10-F14.CH36	36mm/F10, 14	12000	+/- 10°	1517.04
MT71.DA.F16.CH46	46mm/F16	23500	Travel Stops	3308.71

NOTE: All torques in inch pounds (in-lbs).

Accessories
A wide range of accessories are available including, air filter regulators, volume boosters, lock up valves, snap acting relays, solenoid valves, position transmitters, limit switches, and IP converters for pneumatic and electric automation accessories suitable for diverse industrial environments.



Limit Switches
BE and MS Series Limit Switches offer a full range for your ordinary and explosion proof applications. Available in epoxy coated aluminum and stainless steel.



Positioners
PEY and PNY Series positioners designed to meet all modulation requirements reliably and accurately. Smart Positioners and Advanced Communications available.

AE Series Electric Actuators



AE Series - Electric Actuators

AE Series electric actuators are designed to provide a robust, reliable, and cost effective solution for those applications which require a common ball valve or butterfly valve to be electrically actuated. The units come standard with a polycarbonate semi-transparent lid with optional LED lights located on the circuit board for quick visual status of valve position. Extra limit switches, integral electrical relays, and space heaters are also standard on some models.

Configurations:

- Standard On/Off Control (120VAC, 220VAC, + more AC options)
- Extended Duty On/Off Control* (120VAC, 220VAC, 24VAC/DC Dual Voltage)
- Fast Acting On/Off Control (120VAC, 220VAC, 24VAC/DC Dual Voltage)
- Modulating Control (120VAC, 220VAC)

Features:

- Compact design & direct ISO 5211 valve mounting
- Easy field wiring, setup and adjustment
- Multiple voltage options available (AC/DC)
- Open and close directions ±5° travel adjustment
- Standard manual override, hand wheel on larger models
- Standard auxiliary limit switches for open/close feedback
- Standard Open/Close LEDs for easy visual indication
- Standard internal space heater & thermal overload protection
- Selectable input/output signal on modulating models
- Optional 180° rotation for on/off models only up to AE03

On/Off Control:

- Multiple voltages available
- Fast acting and extended duty models available
- Easy wiring and setup
- Manual override standard

Proportional Control:

- Selectable input/output signal (4-20mA, 0-10V, 0-5V)
- Available in 120VAC or 220VAC
- Easy Travel and sensitivity adjustment
- Manual override standard

Specifications:

- Rotation: 90 Degrees ±5° Adjustment
- Housing: Aluminum Alloy Base, Polycarbonate Cover
- Gears: Heavy duty sintered metal
- Back-Drive Resistance Method: High gearing ratio + back-drive resistant motor
- Ambient Temp. Range: 14°F to 140°F
- Relative Humidity Range: 30% to 95%
- Enclosure Protection Rating: IP67 (Water and dust proof)
- Switches: SPDT Mechanical Switches (2 Auxiliary)
- Power Supply Voltage (AC/DC): 120VAC, 220VAC, 24VAC/DC dual voltage
- 3-Phase AC Power Supply Voltage: 220VAC, 380VAC, 480VAC
- Modulating Input Signal (Selectable): 4-20mA, 0-10V, 0-5V
- Modulating Output Signal (Selectable): 4-20mA, 0-10V, 0-5V
- Torque Range: 75 to 5,290 in-lbs
- Valve Mounting: ISO 5211
- Manual Override: Included (hand wheel on larger sizes)

Not Listed but Available:

- 240VAC 3-Phase
- 380VAC 3-Phase
- 480VAC 3-Phase

Standard On/Off Control - Single Phase 120VAC

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	120VAC @ 60Hz	Price $
AE01-120VAC	14mm/F03, 4, 5, 7	301	25%	10W	10s	0.7A	291.00
AE02-120VAC	14mm/F03, 4, 5, 7	434	25%	15W	10s	0.9A	461.00
AE03-120VAC	17mm/F05, 7	1478	50%	25W	8s	1.2A	757.00
AE03H-120VAC	17mm/F05, 7	1797	50%	25W	10s	1.2A	1016.00
AE04H-120VAC	27mm/F07, 10	3292	50%	25W	30s	1.2A	1403.00
AE05H-120VAC	27mm/F07, 10	4355	50%	45W	30s	2.0A	1440.00
AE06H-120VAC	27mm/F07, 10	5293	25%	60W	30s	2.4A	1790.00

Standard On/Off Control - Single Phase 240VAC

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	240VAC @ 60Hz	Price $
AE01-240VAC	14mm/F03, 4, 5, 7	301	25%	10W	10s	0.38A	291.00
AE02-240VAC	14mm/F03, 4, 5, 7	434	25%	15W	10s	0.5A	461.00
AE03-240VAC	17mm/F05, 7	1478	50%	25W	8s	0.72A	757.00
AE03H-240VAC	27mm/F07, 10, 12	1797	50%	25W	10s	0.72A	1016.00
AE04H-240VAC	27mm/F07, 10, 12	3292	50%	25W	30s	0.72A	1403.00
AE05H-240VAC	27mm/F07, 10, 12	4355	50%	45W	30s	0.75A	1440.00
AE06H-240VAC	27mm/F07, 10, 12	5293	25%	60W	30s	0.8A	1790.00

100% Duty Cycle On/Off Control - Single Phase 120VAC

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	120VAC @ 60Hz	Price $
AE01A-120VAC	14mm/F03, 4, 5, 7	283	100%	25W	16s	0.3A	291.00
AE02A-120VAC	14mm/F03, 4, 5, 7	443	100%	25W	36s	0.2A	461.00
AE03HA-120VAC	27mm/F07, 10, 12	867	100%	25W	65s	0.2A	1016.00

100% Duty Cycle On/Off Control - Single Phase 240VAC

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	240VAC @ 60Hz	Price $
AE01A-240VAC	14mm/F03, 4, 5, 7	283	100%	25W	16s	0.15A	291.00
AE02A-240VAC	14mm/F03, 4, 5, 7	443	100%	25W	36s	0.10A	461.00
AE03HA-240VAC	27mm/F07, 10, 12	867	100%	25W	65s	0.10A	1016.00

100% Duty Cycle On/Off Control - 24VAC/24VDC Dual Voltage

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	Max AMPS	Price $
AE01A-24VAC/24VDC	14mm/F03, 4, 5, 7	310	100%	7W	11-16s	1.5A	299.00
AE02A-24VAC/24VDC	14mm/F03, 4, 5, 7	443	100%	7W	12-18s	1.5A	471.00
AE03A-24VAC/24VDC	17mm/F05, 7	1239	100%	25W	8-18s	3.0A	877.00
AE03HA-24VAC/24VDC	27mm/F07, 10, 12	1381	100%	25W	10-15s	3.0A	1136.00
AE04HA-24VAC/24VDC	27mm/F07, 10, 12	2434	100%	25W	27-47s	3.0A	1522.00

NOTE: "H" in the part number indicates hand-wheel manual override.
*100% Duty Cycle according to IEC60034-S4 duty type.
All torques in inch pounds (in-lbs).

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AE Series Electric Actuators



Current Signal

Input	Output
4 ~ 20 mA	2 ~ 10 V, 4 ~ 20 mA
2 ~ 10 V	2 ~ 10 V, 4 ~ 20 mA
0 ~ 10 V	0 ~ 10 V, 0 ~ 20 mA
1 ~ 5 V	1 ~ 5 V, 2 ~ 10 mA
0 ~ 5 V	0 ~ 5 V, 0 ~ 10 mA

NOTE: When using current signal, external resistant is under 500 Ω.

Differences between AMD and BMD Boards:
- AMD units provide power usage efficiencies and should be used when power savings are a concern.
- BMD units should be used for higher torques and faster operating speeds.

Differences between M1 and M2 Boards:
- M1 motors are synchronous type motors providing relatively high electrical efficiency.
- M2 motors are inductive type motors and provide higher torque and speed in the same motor size.

Call 1-800-849-3030 to speak with a sales representative who will assist you in matching the correct actuator to your valve.

Fast Acting On/Off Models - 120VAC

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	120VAC @ 60Hz	Price $
AE01FA-M1-120VAC	14mm/F03, 4, 5, 7	78	100%	15W	1s	0.7A	341.00
AE01FA-M2-120VAC	14mm/F03, 4, 5, 7	221	100%	15W	3s	0.8A	374.00
AE03FA-M1-120VAC	17mm/F05, 7	310	100%	25W	1s	1.2A	849.00
AE03FA-M2-120VAC	17mm/F05, 7	885	100%	25W	5s	1.2A	886.00

Fast Acting On/Off Models - 240VAC

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	240VAC @ 60Hz	Price $
AE01FA-M1-240VAC	14mm/F03, 4, 5, 7	78	100%	15W	1s	0.38A	341.00
AE01FA-M2-240VAC	14mm/F03, 4, 5, 7	221	100%	15W	3s	0.60A	374.00
AE03FA-M1-240VAC	17mm/F05, 7	310	100%	25W	1s	0.72A	849.00
AE03FA-M2-240VAC	17mm/F05, 7	885	100%	25W	5s	0.72A	886.00

Fast Acting On/Off Models - 24VAC/24VDC Dual Voltage

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	Max AMPS	Price $
AE01FA-M1-24VAC/24VDC	14mm/F03, 4, 5, 7	89	100%	7W	1s	2.0A	357.00
AE01FA-M2-24VAC/24VDC	14mm/F03, 4, 5, 7	221	100%	7W	3s	1.6A	382.00
AE03FA-24VAC/24VDC	17mm/F05, 7	443	100%	25W	3s	3.5A	1016.00

Modulating 120VAC - 0-10V or 4-20mA

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	120VAC @ 60Hz	Price $
AEM01A-120VAC-AMD	14mm/F03, 4, 5, 7	221	100%	25W	16s	0.2A	922.00
AEM02A-M1-120VAC-AMD	14mm/F03, 4, 5, 7	319	100%	25W	16s	0.3A	1163.00
AEM02A-M2-120VAC-AMD	14mm/F03, 4, 5, 7	443	100%	25W	35s	0.2A	1218.00
AEM03A-M1-120VAC-AMD	17mm/F05, 7	885	100%	25W	36s	0.3A	1458.00
AEM03HA-M1-120VAC-BMD	27mm/F07, 10, 12	1478	100%	25W	8s	1.2A	1458.00
AEM03HA-M2-120VAC-BMD	27mm/F07, 10, 12	1797	100%	25W	10s	1.2A	1717.00
AEM04HA-120VAC-BMD	27mm/F07, 10, 12	2673	100%	25W	30s	1.2A	2104.00
AEM05HA-120VAC-BMD	27mm/F07, 10, 12	4355	100%	40W	30s	2.0A	2141.00
AEM06HA-120VAC-BMD	27mm/F07, 10, 12	5293	100%	60W	30s	2.4A	2492.00

Modulating 240VAC - 0-10V or 4-20mA

Part #	ISO Mounting	Torque	Duty Cycle	Watts	Cycle Time	240VAC @ 60Hz	Price $
AEM01A-240VAC-AMD	14mm/F03, 4, 5, 7	221	100%	25W	16s	0.10A	922.00
AEM02A-M1-240VAC-AMD	14mm/F03, 4, 5, 7	319	100%	25W	16s	0.15A	1163.00
AEM02A-M2-240VAC-AMD	14mm/F03, 4, 5, 7	443	100%	25W	35s	0.10A	1218.00
AEM03A-M1-240VAC-AMD	17mm/F05, 7	885	100%	25W	36s	0.15A	1458.00
AEM03HA-M1-240VAC-BMD	27mm/F07, 10, 12	1478	100%	25W	8s	0.72A	1458.00
AEM03HA-M2-240VAC-BMD	27mm/F07, 10, 12	1797	100%	25W	10s	0.72A	1717.00
AEM04HA-240VAC-BMD	27mm/F07, 10, 12	2673	100%	25W	30s	0.72A	2104.00
AEM05HA-240VAC-BMD	27mm/F07, 10, 12	4355	100%	40W	30s	0.75A	2141.00
AEM06HA-240VAC-BMD	27mm/F07, 10, 12	5293	100%	60W	30s	0.80A	2492.00

NOTE: "H" in the part number indicates hand-wheel manual override.
*100% Duty Cycle according to IEC60034-S4 duty type.
All torques in inch pounds (in-lbs).

All prices subject to change without notice.

Butterfly Valves

Cepex® Standard Butterfly Valves

Features:

- Gray PVC (PVC Body & Disc)
- Sizes 2” to 4” rated at 150 PSI @ 73° F
- Zinc plated steel stem
- EPDM or Fpm® self-sealing gaskets
- Flange bolt holes accommodate ANSI/ASTM, ISO/DIN, BS & JIS bolt circles
- Available with flanges and SS Bolt kit
- Sizes 6” to 10” rated at 115 PSI @ 73° F
- Plasticized aluminum Lever handle
- 100% hydro tested prior to leaving factory



Lever Operator

Size (in.)	PVC EPDM Part #	Price $
2-2 1/2	5240-025	176.28
3	5240-030	181.99
4	5240-040	206.83
6	5240-060	313.29
8	5240-080	546.78
10	5240-100	823.08

GF Aqua Butterfly Valve Type 563



Specifically for water applications, the Type 563 Aqua butterfly valve operates at pressures of up to 150 PSI and can handle temperatures from 32°F to 142°F. The wetted inner body is made of PVC with EPDM seals. Because of the plastic body, the Aqua valve is lightweight and installs easily between flanges. The Aqua valve is compatible with ANSI and DIN flanges and is available from 2” to 12”. The Q-ring seals allow the valve to be installed without additional gaskets.

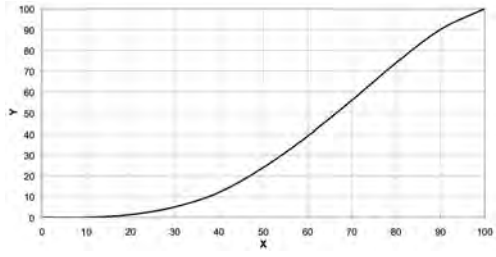
Model:

- Glass-filled Polypropylene Body
- 304 Stainless Steel Stem (non-wetted)

Options:

- Lockable lever moves in increments of 5 degrees or available with gear operator
- Pneumatic actuators from GF available

Flow Characteristics Type 563



Size (in.)	Cv 100 gal/min Δp = 1psi
2	103
2 1/2	154
3	210
4	455
5	805
6	1162
8	2772
10	3570
12	5110

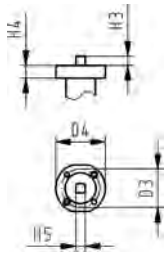
PVC / EPDM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	161 563 002	0237-020	157.00	161 563 042	0239-020	460.00
2 1/2	150	161 563 003	0237-025	159.00	161 563 043	0239-025	468.00
3	150	161 563 004	0237-030	160.00	161 563 044	0239-030	480.00
4	150	161 563 005	0237-040	177.00	161 563 045	0239-040	496.00
5	150	161 563 006	0237-050	265.00	N/A	N/A	N/A
6	150	161 563 007	0237-060	265.00	161 563 047	0239-060	590.00
8	150	161 563 008	0237-080	444.00	161 563 048	0239-080	687.00
10	150	161 563 009	0237-100	797.00	161 563 049	0239-100	797.00
12	150	161 563 010	0237-120	1533.00	161 563 050	0239-120	1588.00

PVC / EPDM / Electrically Actuated

Size (in.)	75 PSI / EA25 2”-3”, EA42 12”		Price $	150 PSI / EA31 2”-10”		Price $
	Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150 563 070	0360-020	778.00	150 563 080	0361-020	1134.00
2 1/2	150 563 071	0360-025	811.00	150 563 081	0361-025	1141.00
3	150 563 072	0360-030	818.00	150 563 082	0361-030	1152.00
4	N/A	N/A	N/A	150 563 083	0361-040	1159.00
5	N/A	N/A	N/A	150 563 084	0361-050	1227.00
6	N/A	N/A	N/A	150 563 085	0361-060	1227.00
8	N/A	N/A	N/A	150 563 086	0361-080	1746.00
10	N/A	N/A	N/A	150 563 087	0361-100	2430.00
12	150 563 078	0360-120	2967.00	N/A	N/A	N/A

Size (in.)	Breakaway Torque (ft-lb)		ISO	D3 (in.)	D4 (in.)	H3 (in.)	H4 (in.)	H5 (mm)
	at 75 PSI	at 150 PSI						
2	10	25	F07	2.76	3.54	1.06	0.91	11
2 1/2	10	30	F07	2.76	3.54	1.06	0.91	11
3	20	45	F07	2.76	3.54	1.06	0.91	11
4	30	60	F07	2.76	3.54	0.63	0.91	14
5	40	75	F07	2.76	3.54	0.63	0.91	14
6	50	90	F07	2.76	3.54	0.75	0.91	17
8	75	120	F07	2.76	3.54	0.75	0.91	17
10	100	170	F10	4.02	4.92	1.57	0.91	22
12	130	220	F10	4.02	4.92	1.57	0.91	22



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GF Wafer Style Butterfly Valve Type 567



Butterfly valves type 567 are compact, flexible and reliable shut-off valves for wafer and lug style applications.

The modular design principle allows you to exchange individual system components - fast, easily and at very little expense and effort.

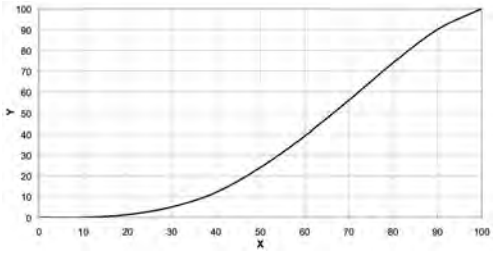
Type 567 Hand Lever with Ratchet Settings and Reduction Gear with Handwheel

Model:
- Overall length according to EN 558, ISO 5752
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220

Options:
- Manual valves with hand lever or reduction gear
- Pneumatic or electric actuators from GF
- Lug Style

Advantages:
- Double eccentric operating principle
- 50% lower actuation torque compared to a centric butterfly valve
- Lockable hand lever
- Standard 5° ratchet setting
- Double internal shaft sealing on both sides
- Shaft made from high corrosion resistant steel
- Profile seal to the connecting element
- Profile seal in the passage

Flow Characteristics Type 567



Size (in.)	Cv 100 gal/min Δp = 1psi
2	103
2 1/2	154
3	210
4	455
5	805
6	1162
8	2772
10	3570
12	5110

PVC / EPDM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	161 567 002	0154-020	239.00	161 567 042	0159-020	542.00
2 1/2	150	161 567 003	0154-025	249.00	161 567 043	0159-025	553.00
3	150	161 567 004	0154-030	265.00	161 567 044	0159-030	567.00
4	150	161 567 005	0154-040	286.00	161 567 045	0159-040	585.00
5	150	161 567 006	0154-050	413.00	161 567 046	0159-050	697.00
6	150	161 567 007	0154-060	413.00	161 567 047	0159-060	697.00
8	150	161 567 008	0154-080	616.00	161 567 048	0159-080	810.00
10	150	161 567 009	0154-100	1910.00	161 567 049	0159-100	2165.00
12	150	161 567 010	0154-120	2611.00	161 567 050	0159-120	2903.00

PVC / FPM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	161 567 022	0155-020	376.00	161 567 062	0160-020	705.00
2 1/2	150	161 567 023	0155-025	385.00	161 567 063	0160-025	711.00
3	150	161 567 024	0155-030	399.00	161 567 064	0160-030	726.00
4	150	161 567 025	0155-040	434.00	161 567 065	0160-040	759.00
5	150	161 567 026	0155-050	609.00	161 567 066	0160-050	920.00
6	150	161 567 027	0155-060	609.00	161 567 067	0160-060	920.00
8	150	161 567 028	0155-080	788.00	161 567 068	0160-080	1092.00
10	150	161 567 029	0155-100	2821.00	161 567 069	0160-100	3438.00
12	150	161 567 030	0155-120	3540.00	161 567 070	0160-120	4242.00

CPVC / EPDM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	163 567 002	0232-020	459.00	163 567 042	0238-020	743.00
2 1/2	150	163 567 003	0232-025	508.00	163 567 043	0238-025	794.00
3	150	163 567 004	0232-030	560.00	163 567 044	0238-030	894.00
4	150	163 567 005	0232-040	656.00	163 567 045	0238-040	987.00
5	150	163 567 006	0232-050	895.00	163 567 046	0238-050	1276.00
6	150	163 567 007	0232-060	895.00	163 567 047	0238-060	1276.00
8	150	163 567 008	0232-080	1158.00	163 567 048	0238-080	1553.00

CPVC / FPM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	163 567 022	0240-020	643.00	163 567 062	0241-020	864.00
2 1/2	150	163 567 023	0240-025	696.00	163 567 063	0241-025	946.00
3	150	163 567 024	0240-030	818.00	163 567 064	0241-030	1049.00
4	150	163 567 025	0240-040	947.00	163 567 065	0241-040	1162.00
5	150	163 567 026	0240-050	1243.00	163 567 066	0241-050	1395.00
6	150	163 567 027	0240-060	1243.00	163 567 067	0241-060	1395.00
8	150	163 567 028	0240-080	1610.00	163 567 068	0241-080	1709.00

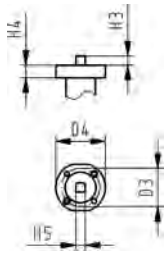
PP / EPDM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	167 567 002	0156-020	333.00	167 567 042	0150-020	882.00
2 1/2	150	167 567 003	0156-025	370.00	167 567 043	0150-025	930.00
3	150	167 567 004	0156-030	417.00	167 567 044	0150-030	973.00
4	150	167 567 005	0156-040	506.00	167 567 045	0150-040	1063.00
5	150	167 567 006	0156-050	720.00	167 567 046	0150-050	1148.00
6	150	167 567 007	0156-060	720.00	167 567 047	0150-060	1148.00
8	150	167 567 008	0156-080	927.00	167 567 048	0150-080	1320.00
10	120	167 567 009	0156-100	3191.00	167 567 049	0150-100	3501.00
12	120	167 567 010	0156-120	3953.00	167 567 050	0150-120	4261.00

PP / FPM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	167 567 022	0157-020	418.00	167 567 062	0151-020	946.00
2 1/2	150	167 567 023	0157-025	452.00	167 567 063	0151-025	984.00
3	150	167 567 024	0157-030	500.00	167 567 064	0151-030	1063.00
4	150	167 567 025	0157-040	638.00	167 567 065	0151-040	1160.00
5	150	167 567 026	0157-050	932.00	167 567 066	0151-050	1429.00
6	150	167 567 027	0157-060	932.00	167 567 067	0151-060	1429.00
8	150	167 567 028	0157-080	1088.00	167 567 068	0151-080	1655.00
10	120	167 567 029	0157-100	3720.00	167 567 069	0151-100	4044.00
12	120	167 567 030	0157-120	4629.00	167 567 070	0151-120	4939.00

Size (in.)	Breakaway Torque (ft-lb)		ISO	D3 (in.)	D4 (in.)	H3 (in.)	H4 (in.)	H5 (mm)
	at 75 PSI	at 150 PSI						
2	10	25	F07	2.76	3.54	1.06	0.91	11
2 1/2	10	30	F07	2.76	3.54	1.06	0.91	11
3	20	45	F07	2.76	3.54	1.06	0.91	11
4	30	60	F07	2.76	3.54	0.63	0.91	14
5	40	75	F07	2.76	3.54	0.63	0.91	14
6	50	90	F07	2.76	3.54	0.75	0.91	17
8	75	120	F07	2.76	3.54	0.75	0.91	17
10	100	170	F10	4.02	4.92	1.57	0.91	22
12	130	220	F10	4.02	4.92	1.57	0.91	22



PVDF / FPM

Size (in.)	PSI	HAND LEVER		Price $	REDUCTION GEAR		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	175 567 002	0158-020	1088.00	175 567 022	0149-020	1494.00
2 1/2	150	175 567 003	0158-025	1246.00	175 567 023	0149-025	1678.00
3	150	175 567 004	0158-030	1513.00	175 567 024	0149-030	1932.00
4	150	175 567 005	0158-040	1799.00	175 567 025	0149-040	2121.00
5	150	175 567 006	0158-050	2810.00	175 567 026	0149-050	2937.00
6	150	175 567 007	0158-060	2810.00	175 567 027	0149-060	2937.00
8	150	175 567 008	0158-080	3684.00	175 567 028	0149-080	3798.00

GF Lug Style Butterfly Valve Type 578



The Type 578 Lug Butterfly Valve has several beneficial design features unique to the Georg Fischer butterfly valve line. The double eccentric operating principle has an off-center disc and shaft that disengages the disk from the seal with only 3 degrees of rotation. This significantly reduces component wear and required operating torque, as the disk is not in contact with the seal when the valve is opening and closing. Conversely, a traditional boot-style valve has a centric design, significantly increasing the required operating torque because of the disk sealing principle associated with these valves. Boot-style valves often show a far more dramatic increase in required operating toque over time than a double eccentric valve. This can result in premature actuator failure and can even render the valve inoperable. Georg Fischer double eccentric butterfly valves require approximately 50% less operating torque than boot-style competitive valves.

The 578 valve also features a truly non-wetted shaft design. The bushing assembly has a double O-ring seal on both the disk and body sides, providing the highest level of protection and reliability.

Size (in.)	PVC / EPDM				PVC / FPM			
	Hand Lever Part #	Price $	Reduction Gear Part #	Price $	Hand Lever Part #	Price $	Reduction Gear Part #	Price $
2	161 578 102	700.00	161 578 142	1174.00	161 578 122	824.00	161 578 162	1305.00
2 1/2	161 578 103	724.00	161 578 143	1215.00	161 578 123	851.00	161 578 163	1351.00
3	161 578 104	724.00	161 578 144	1229.00	161 578 124	851.00	161 578 164	1365.00
4	161 578 105	1229.00	161 578 145	1694.00	161 578 125	1413.00	161 578 165	1883.00
5	161 578 106	1601.00	161 578 146	2046.00	161 578 126	1882.00	161 578 166	2273.00
6	161 578 107	1601.00	161 578 147	2058.00	161 578 127	1882.00	161 578 167	2286.00
8	161 578 108	2162.00	161 578 148	2423.00	161 578 128	2542.00	161 578 168	2691.00
10	161 578 109	3677.00	161 578 149	3911.00	161 578 129	4326.00	161 578 169	4601.00
12	161 578 110	4414.00	161 578 150	4694.00	161 578 130	5191.00	161 578 170	5868.00

Size (in.)	CPVC / EPDM				CPVC / FPM			
	Hand Lever Part #	Price $	Reduction Gear Part #	Price $	Hand Lever Part #	Price $	Reduction Gear Part #	Price $
2	163 578 102	1000.00	163 578 142	1247.00	163 578 122	1250.00	163 578 162	1389.00
2 1/2	163 578 103	1034.00	163 578 143	1540.00	163 578 123	1293.00	163 578 163	1724.00
3	163 578 104	1034.00	163 578 144	1540.00	163 578 124	1293.00	163 578 164	1724.00
4	163 578 105	1755.00	163 578 145	1950.00	163 578 125	2194.00	163 578 165	2437.00
5	163 578 106	2285.00	163 578 146	2538.00	163 578 126	2857.00	163 578 166	3174.00
6	163 578 107	2285.00	163 578 147	2538.00	163 578 127	2857.00	163 578 167	3174.00
8	163 578 108	3087.00	163 578 148	3432.00	163 578 128	3859.00	163 578 168	4288.00
10	163 578 109	8810.00	163 578 149	9787.00	163 578 129	11013.00	163 578 169	12236.00
12	163 578 110	10149.00	163 578 150	11275.00	163 578 130	11940.00	163 578 170	13266.00

Size (in.)	PP / EPDM				PP / FPM			
	Hand Lever Part #	Price $	Reduction Gear Part #	Price $	Hand Lever Part #	Price $	Reduction Gear Part #	Price $
2	167 578 102	1043.00	167 578 142	1304.00	167 578 122	1113.00	167 578 162	1393.00
2 1/2	167 578 103	1268.00	167 578 143	1491.00	167 578 123	1415.00	167 578 163	1664.00
3	167 578 104	1358.00	167 578 144	1597.00	167 578 124	1449.00	167 578 164	1704.00
4	167 578 105	1736.00	167 578 145	1929.00	167 578 125	1836.00	167 578 165	2041.00
5	167 578 106	2553.00	167 578 146	2686.00	167 578 126	3297.00	167 578 166	3471.00
6	167 578 107	2553.00	167 578 147	2686.00	167 578 127	3297.00	167 578 167	3471.00
8	167 578 108	3294.00	167 578 148	3469.00	167 578 128	3599.00	167 578 168	3789.00
10	167 578 109	4974.00	167 578 149	5235.00	167 578 129	5889.00	167 578 169	6315.00
12	167 578 110	6031.00	167 578 150	6346.00	167 578 130	7601.00	167 578 170	8001.00

Size (in.)	PVDF / FPM				PVDF / PTFE / FPM			
	Hand Lever Part #	Price $	Reduction Gear Part #	Price $	Hand Lever Part #	Price $	Reduction Gear Part #	Price $
2	175 578 102	1604.00	175 578 122	1687.00	175 578 302	1924.00	175 578 322	2024.00
2 1/2	175 578 103	2229.00	175 578 123	2345.00	175 578 303	2273.00	175 578 323	2393.00
3	175 578 104	2229.00	175 578 124	2345.00	175 578 304	2674.00	175 578 324	2815.00
4	175 578 105	2578.00	175 578 125	2714.00	175 578 305	3204.00	175 578 325	3372.00
5	175 578 106	3920.00	175 578 126	4126.00	175 578 306	5451.00	175 578 326	5737.00
6	175 578 107	3920.00	175 578 127	4126.00	175 578 307	5451.00	175 578 327	5737.00
8	175 578 108	4912.00	175 578 128	5171.00	175 578 308	8861.00	175 578 328	9327.00
10	175 578 109	8785.00	175 578 129	10344.00	175 578 309	13708.00	175 578 329	14429.00
12	175 578 110	10542.00	175 578 130	12410.00	175 578 310	17372.00	175 578 330	18286.00

NOTE: PTFE seals and bare shaft available upon request

Advantages:

- 50% lower actuation torque compared to a centric butterfly due to the double eccentric operating principle
- Abrasion can be reduced noticeably
- Integrated electric position indicator in the mounting flange
- Optimized gaskets
- All components which are in contact with the media are made of piping materials, minimizing permeation
- Functional hand lever made of glass-fiber-reinforced polypropylene (PP-GF 30) with 5° ratchet setting, lockable

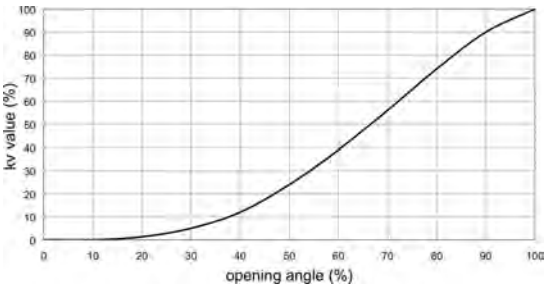
Features:

- Size: 2" - 12"
- Body: Glass filled PP with overmolded SS316 lugs,
- ANSI 150 bolt pattern
- Materials: PVC, CPVC, PP and PVDF
- Stem: 316 stainless steel
- Seal: EPDM or FPM; PTFE seals available upon request
- Operation: Bare shaft, lever, gear
- PSI: Up to 150 PSI, Bi-directional

Options:

- Manual valves with hand lever or reduction gear
- Pneumatic or electric actuators from GF

Flow Characteristics Type 578



Size (in.)	Cv 100 gal/min Δp = 1psi
2	103
2 1/2	154
3	210
4	455
5	805
6	1162
8	2772
10	3570
12	5110

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011519

Butterfly Valves

Hayward BYV Series Butterfly Valve



The BYV Series butterfly valves are available in PVC, CPVC and GFPP bodies and discs. Liners and seals available in FPM, EPDM or Nitrile materials. 316SS Stems are standard. The BYV Series features a revolutionary hand lever with 19 lockable stop positions and 360 degree interlocking splines.

Features:
- One Piece Body and Disc in PVC, CPVC and GFPP Materials
- Revolutionary Hand Lever with 19 Lockable Stop Positions and 360 Interlock
- External Disc Position and Flow Indication
- Hydro-dynamic Centric Disc Design for Increased Flow Performance
- Over-Sized Liner Face Maximizes Surface Contact with Flanges
- EPDM, FPM or Nitrile Liners
- 1-Piece 316 Stainless Steel Stem with Threaded Retaining Gland
- Stem Bearing and Seal Retainer for Absolute Stem Positioning and Sealing
- ISO 5211 Top Flange and Stem Drive
- All Sizes Meet ANSI B16.10 / ISO 5752 Narrow Face-to-Face Dimensions
- Pressure Rated at 150 PSI / 10 Bar in All Sizes at 70°F Non-Shock

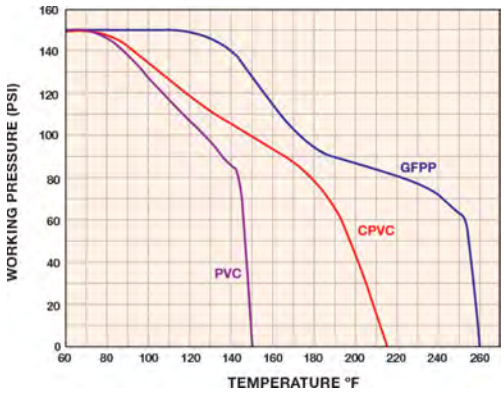
Options:
- Over-Molded or Field Mountable 316 Stainless Steel Lugs
- Gear Operators
- Complete Range of Pneumatic or Electric Actuators
- Stem Extensions
- 2" Square Operating Nut
- Chain Operator for Gear Box

Cv Valves

Size (in.)	Cv at Various Opening Degrees					
	15°	30°	45°	60°	75°	90°
2	0.2	15	37	65	88	92
2 1/2	1.1	24	45	80	145	165
3	3.1	28	36	83	182	250
4	20	58	84	183	390	470
6	30	105	200	458	1000	1510
8	125	203	375	770	1650	2820
10	123	289	644	1396	3003	4723
12	154	435	1011	2189	4586	6400

NOTE: Cv value denotes the flow rate in US gallon/min for water at 70° F under a pressure differential 1 psig. When required Kv = Cv/1.17

Operating Temperature / Pressure



PVC / FPM Liner / PP Disc

Size (in.)	Oper	Part #	Price $
2	Lever	0152-020	448.90
3	Lever	0152-030	602.70
4	Lever	0152-040	747.70
6	Lever	0152-060	1292.70
8	Lever	0152-080	2095.45

PVC / EPDM Liner / PP Disc

Size (in.)	Oper	Part #	Price $
2	Lever	0153-020	332.35
3	Lever	0153-030	360.90
4	Lever	0153-040	419.15
6	Lever	0153-060	619.10
8	Lever	0153-080	1083.30

PVC / FPM Liner / PVC Disc

Size (in.)	Oper	Part #	Price $
2	Lever	2262-020	448.90
3	Lever	2262-030	602.70
4	Lever	2262-040	747.70
6	Lever	2262-060	1292.70
8	Lever	2262-080	2095.45

PVC / EPDM Liner / PVC Disc

Size (in.)	Oper	Part #	Price $
2	Lever	2263-020	332.35
3	Lever	2263-030	360.90
4	Lever	2263-040	419.15
6	Lever	2263-060	619.10
8	Lever	2263-080	1083.30

PPL / FPM Liner / PVC Disc

Size (in.)	Oper	Part #	Price $
10	Gear	2265-100	4259.90
12	Gear	2265-120	6011.55

PPL / EPDM Liner / PVC Disc

Size (in.)	Oper	Part #	Price $
10	Gear	2266-100	1883.80
12	Gear	2266-120	3070.40

PPL / FPM Liner / PPL Disc

Size (in.)	Oper	Part #	Price $
2	Lever	2267-020	625.80
3	Lever	2267-030	841.60
4	Lever	2267-040	1009.85
6	Lever	2267-060	1693.05
8	Lever	2267-080	2557.55
10	Gear	2267-100	4973.35
12	Gear	2267-120	7661.00

PPL / EPDM Liner / PPL Disc

Size (in.)	Oper	Part #	Price $
2	Lever	2268-020	442.70
3	Lever	2268-030	472.75
4	Lever	2268-040	544.85
6	Lever	2268-060	810.44
8	Lever	2268-080	1372.10
10	Gear	2268-100	2746.15
12	Gear	2268-120	3955.60

CPVC / FPM Liner / CPVC Disc

Size (in.)	Oper	Part #	Price $
2	Lever	2269-020	572.55
3	Lever	2269-030	745.45
4	Lever	2269-040	928.20
6	Lever	2269-060	1605.15
8	Lever	2269-080	2341.40

CPVC / EPDM Liner / CPVC Disc

Size (in.)	Oper	Part #	Price $
2	Lever	2270-020	390.60
3	Lever	2270-030	424.85
4	Lever	2270-040	493.35
6	Lever	2270-060	729.40
8	Lever	2270-080	1275.15

Butterfly Valves

Hayward BYB Series Butterfly Valve



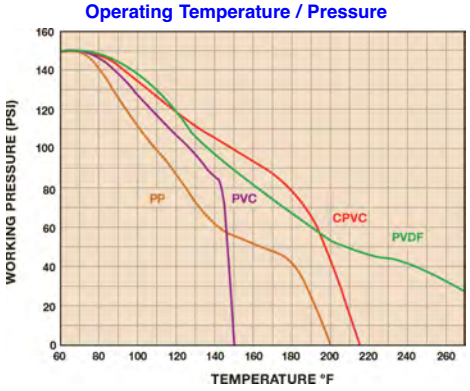
BYB Series butterfly valves are available in PVC, CPVC, PP and PVDF bodies. Discs are available in CPVC, PP and PVDF. All BYB Series have a 410 SSTL shaft. Liners are FPM, EPDM or Nitrile.

Features:
- PVC, CPVC, PP and PVDF Bodies
- CPVC, PP, and PVDF Discs
- Heavy Duty Gear Operator
- 410 Grade Stainless Steel Stem
- Choice of FPM, EPDM, or Nitrile Liners

Options:
- Pneumatic or Electric Actuators
- Stem Extensions

Pressure Rating:
- 14" - 16" is 86 PSI at 70°F Non-Shock
- 18" is 72 PSI at 70°F Non-Shock
- 20" - 24" is 51 PSI at 70°F Non-Shock

Operating Temperature / Pressure



PPL / FPM Liner / PP Disc

Size (in.)	Oper	Part #	Price $
14	Gear	2267-140	POA
16	Gear	2267-160	POA
18	Gear	2267-180	POA
20	Gear	2267-200	POA
24	Gear	2267-240	POA

PPL / EPDM Liner / PP Disc

Size (in.)	Oper	Part #	Price $
14	Gear	2268-140	POA
16	Gear	2268-160	POA
18	Gear	2268-180	POA
20	Gear	2268-200	POA
24	Gear	2268-240	POA

Hayward Pure-Blu™ BYCN Series Butterfly Valve



BYCN Pure-Blu™ Series Butterfly Valve sizes 2". to 8". PVC Body and PVC Disc only. All liners and seals are EPDM. Type 316 Stainless Steel Shaft. BYCN Pure-Blu™ butterfly valves are offered with a lever handle or a gearbox. NSF/ANSI 61 Listed.

Features:
- NSF/ANSI 61 Listed
- Wafer Body Design
- Fits ANSI 125 or PN10 Flange Patterns
- PVC Body with PVC Disc
- 316 Grade Stainless Steel Stem
- EPDM Booted Seat
- ISO 5211 Mounting Pad
- 9 Position Throttle Plate
- Standard Lockout Handlever

Benefits:
- High Flow Capacity
- Low Pressure Drop

Applications:
- Potable Water Systems /Commercial Plumbing
- Pools, Water/Theme Parks and Aquariums
- Food and Beverage
- Water and Wastewater Treatment
- Chemical Processing

Materials:
- PVC Cell Class 12454 per ASTM D1784
- EPDM Liner and Seals

PVC / EPDM / Lever Handle

Size (in.)	Mfg Part #	Price $
2	BYCN1020E1LGB	174.10
2 1/2	BYCN1025E1LGB	174.10
3	BYCN1030E1LGB	197.95
4	BYCN1040E1LGB	217.15
5	BYCN1050E1LGB	303.20
6	BYCN1060E1LGB	333.50
8	BYCN1080E1LGB	582.30

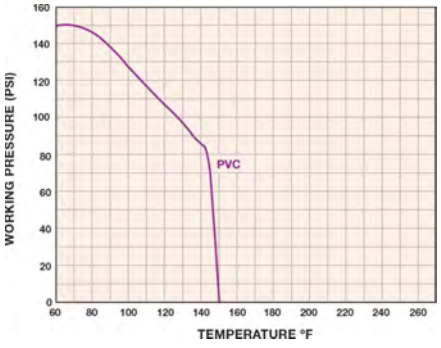
NOTE: Gear operators, electric or pneumatic actuators are available.

Cv Valves

Size (in.)	Cv at Various Opening Degrees					
	15°	30°	45°	60°	75°	90°
2	1	6	24	32	84	120
2 1/2	3	13	50	108	175	250
3	4	15	60	129	210	300
4	7	24	94	202	329	470
5	13	42	166	357	581	830
6	18	55	220	473	770	1100
8	90	125	500	1075	1750	2500

NOTE: Cv value denotes the flow rate in US gallon/min for water at 70° F under a pressure differential 1 psig. When required Kv = Cv/1.17

Operating Temperature / Pressure



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Butterfly Valves

Asahi Wafer Style Butterfly Valve Type 57



Type-57 butterfly valves are quarter turn valves with equal percentage type flow characteristics. They provide moderate flow control and therefore can be used for both on/off and modulating service. Good tolerance to suspended solids but not recommended for use with slurries or debris. The Type-57 butterfly valve is well suited for a wide variety of fluid flow applications.

Features:

- Standard model (1-1/2" – 14") has PVC body and PP disc for superior chemical resistance and elevated temperature capabilities
- 316/403 stainless steel shaft has full engagement over the entire length of the disc and is a non-wetted part
- Only solid and abrasion-resistant plastic disc and elastomeric liner are wetted parts
- ISO bolt circle on top flange–no body or stem modifications required for accessories
- Stem retainer–PP retainer to prevent stem removal
- Seat over tightening protection–Molded body stops and seat stress relief area
- Spherical disc design offers increased Cv, ultimate sealing and high cycle life
- 18 position throttle plate for lever handle style

Options:

- Pneumatically and electrically actuated with accessories
- Alternate discs: PVC : 1-1/2" - 14", PVDF : 1-1/2" - 14", CPVC : 3", 4", 6" & 8"
- Lug style (stainless steel 304 or 316) for blocking and end-of-line applications
- Stems in 316 stainless steel, titanium, Hastelloy C®
- 2" square nut on stem (1-1/2" - 8" only)
- 2" square nut on gear operator (All sizes)
- Stem extensions (Single stem and two-piece stem)
- Locking devices (Gear type - standard on lever)
- Chain operators
- Manual limit switch - Asahi P-Series
- Tandem arrangements (Patented by A/A, Inc.)

Type 57 Cv Valves

Size (in.)	Cv at Various Opening Degrees		
	30°	60°	90°
1 1/2	4	43	71
2	7	73	120
2 1/2	15	153	250
3	18	183	300
4	28	287	470
5	49	506	830
6	66	671	1100
8	150	1525	2500

Type 57 Wafer Style - Lever Operated

PVC Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3730015	3730-015	299.00
2	150	3730020	3730-020	312.00
2 1/2	150	3730025	3730-025	351.00
3	150	3730030	3730-030	339.00
4	150	3730040	3730-040	393.00
5	150	3730050	3730-050	737.00
6	150	3730060	3730-060	590.00
8	150	3730080	3730-080	1094.00

PVC Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3731015	3731-015	666.00
2	150	3731020	3731-020	473.00
2 1/2	150	3731025	3731-025	673.00
3	150	3731030	3731-030	636.00
4	150	3731040	3731-040	788.00
5	150	3731050	3731-050	2852.00
6	150	3731060	3731-060	1388.00
8	150	3731080	3731-080	2255.00

PVC Body / PVC Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3722015	3722-015	299.00
2	150	3722020	3722-020	312.00
2 1/2	150	3722025	3722-025	351.00
3	150	3722030	3722-030	339.00
4	150	3722040	3722-040	393.00
5	150	3722050	3722-050	737.00
6	150	3722060	3722-060	590.00
8	150	3722080	3722-080	1094.00

PVC Body / PVC Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3724015	3724-015	666.00
2	150	3724020	3724-020	473.00
2 1/2	150	3724025	3724-025	673.00
3	150	3724030	3724-030	636.00
4	150	3724040	3724-040	788.00
5	150	3724050	3724-050	2852.00
6	150	3724060	3724-060	1388.00
8	150	3724080	3724-080	2255.00

PP Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3752015	3752-015	706.00
2	150	3752020	3752-020	741.00
2 1/2	150	3752025	3752-025	936.00
3	150	3752030	3752-030	1050.00
4	150	3752040	3752-040	1124.00
5	150	3752050	3752-050	1591.00
6	150	3752060	3752-060	1781.00
8	150	3752080	3752-080	2655.00

PP Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3753015	3753-015	802.00
2	150	3753020	3753-020	834.00
2 1/2	150	3753025	3753-025	1124.00
3	150	3753030	3753-030	1164.00
4	150	3753040	3753-040	1238.00
5	150	3753050	3753-050	3377.00
6	150	3753060	3753-060	2610.00
8	150	3753080	3753-080	3014.00

PVDF Body / PVDF Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3744015	3744-015	1025.00
2	150	3744020	3744-020	1071.00
2 1/2	150	3744025	3744-025	1224.00
3	150	3744030	3744-030	1384.00
4	150	3744040	3744-040	1999.00
5	150	3744050	3744-050	3961.00
6	150	3744060	3744-060	3782.00
8	150	3744080	3744-080	7482.00

PVDF Body / PVDF Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
1 1/2	150	3745015	3745-015	1290.00
2	150	3745020	3745-020	1290.00
2 1/2	150	3745025	3745-025	1569.00
3	150	3745030	3745-030	1639.00
4	150	3745040	3745-040	2322.00
5	150	3745050	3745-050	4824.00
6	150	3745060	3745-060	4562.00
8	150	3745080	3745-080	8052.00

Type 57 Wafer Style - Plasgear™ Gear Operated

PVC Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3719080	3719-080	1316.00
10	150	3719100	3719-100	2050.00
12	100	3719120	3719-120	3342.00
14	100	3719140	3719-140	10144.00

PVC Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3720080	3720-080	2759.00
10	150	3720100	3720-100	4882.00
12	100	3720120	3720-120	7180.00
14	100	3720140	3720-140	23789.00

PVC Body / PVC Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3723080	3723-080	1444.00
10	150	3723100	3723-100	2319.00
12	100	3723120	3723-120	3610.00
14	100	3723140	3723-140	11005.00

PVC Body / PVC Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3725080	3725-080	2759.00
10	150	3725100	3725-100	4882.00
12	100	3725120	3725-120	7180.00
14	100	3725140	3725-140	23789.00

PP Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3726080	3726-080	2948.00
10	150	3726100	3726-100	3372.00
12	100	3726120	3726-120	4699.00
14	100	3726140	3726-140	7531.00

PP Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3727080	3727-080	3283.00
10	150	3727100	3727-100	4528.00
12	100	3727120	3727-120	6326.00
14	100	3727140	3727-140	18225.00

PVDF Body / PVDF Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3728080	3728-080	7629.00
10	150	3728100	3728-100	9986.00
12	100	3728120	3728-120	12941.00
14	100	3728140	3728-140	14672.00

PVDF Body / PVDF Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
8	150	3729080	3729-080	8194.00
10	150	3729100	3729-100	12073.00
12	100	3729120	3729-120	15707.00
14	100	3729140	3729-140	21923.00

NOTE: Cv value denotes the flow rate in US gallon/min for water at 70° F under a pressure differential 1 psig. When required Kv = Cv/1.17

Butterfly Valves

Asahi Lug Style Stainless Steel 316 Butterfly Valve Type 57

Type 57 Lug Style Stainless Steel 316 - Lever Operated

PP Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3861030	3861-030	1408.00
4	150	3861040	3861-040	1863.00
6	150	3861060	3861-060	2686.00
8	150	3861080	3861-080	3825.00

PP Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3863030	3863-030	1522.00
4	150	3863040	3863-040	1980.00
6	150	3863060	3863-060	3516.00
8	150	3863080	3863-080	4187.00

PVDF Body / PVDF Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3869030	3869-030	1746.00
4	150	3869040	3869-040	2740.00
6	150	3869060	3869-060	4690.00
8	150	3869080	3869-080	8499.00

PVDF Body / PVDF Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3871030	3871-030	1999.00
4	150	3871040	3871-040	3063.00
6	150	3871060	3871-060	5472.00
8	150	3871080	3871-080	9066.00

Type 57 Lug Style Stainless Steel 316 - Plasgear™ Gear Operated

PP Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3833030	3833-030	1765.00
4	150	3833040	3833-040	2212.00
6	150	3833060	3833-060	3030.00
8	150	3833080	3833-080	3954.00
10	150	3833100	3833-100	5374.00
12	100	3833120	3833-120	6702.00

PP Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3835030	3835-030	1877.00
4	150	3835040	3835-040	2328.00
6	150	3835060	3835-060	3848.00
8	150	3835080	3835-080	4291.00
10	150	3835100	3835-100	6532.00
12	100	3835120	3835-120	8326.00

PVDF Body / PVDF Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3849030	3849-030	2095.00
4	150	3849040	3849-040	3080.00
6	150	3849060	3849-060	5012.00
8	150	3849080	3849-080	8635.00
10	150	3849100	3849-100	11987.00
12	100	3849120	3849-120	14943.00

PVDF Body / PVDF Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	3851030	3851030	2325.00
4	150	3851040	3851040	3367.00
6	150	3851060	3851060	5727.00
8	150	3851080	3851080	9109.00
10	150	3851100	3851100	13934.00
12	100	3851120	3851120	17535.00

Asahi Lug Style Butterfly Valve Type 57IL



Type-57 IL plastic butterfly valves are quarter turn valves designed for use in applications where 1-side flange removal may be periodically required. They feature a PVC body with fully molded in 316SS threaded lug inserts for connection to the mating flanges. Type-57 IL butterfly valves permit one side flange removal, while maintaining full line pressure on the opposite side. They provide moderate flow control and therefore can be used for both on/off and modulating service. Good tolerance to suspended solids but not recommended for use with slurries or debris. The Type-57 IL butterfly valve is well suited for a wide variety of fluid flow applications. Can be pneumatically or electrically actuated.

Features:

- Standard model (3" - 12") has PVC Body and PP Disc for superior chemical resistance and elevated temperature capabilities
- 316 stainless steel stem has full engagement over the entire length of the disc and is a non-wetted part, totally isolated from the media
- Only solid and abrasion-resistant plastic disc and elastomeric liner are wetted parts
- ISO bolt circle on top flange - no body or stem modifications required for accessories
- Stem retainer-PP retainer to prevent stem removal
- Seat over tightening protection-molded body stops and seat stress relief area
- Spherical disc design offers increased Cv, ultimate sealing and high cycle life
- 316SS Factory Lugs
- Plasgear™ gear operators for 3" - 12" standard

Options:

- Pneumatically and electrically actuated with accessories
- Alternate discs: PVC: 3" - 12", PVDF: 3" - 12"
- Stems in 316 stainless steel, titanium, Hastelloy C®
- 2" square nut on stem (3" - 8" only)
- 2" square nut on gear operator (All sizes)
- Stem extensions (single stem and two-piece stem)
- Locking devices (Gear Type - Standard on Lever)
- Chain operators
- Manual limit switch - Asahi P-Series
- Tandem arrangements (Patented by A/A, Inc.)

Type 57IL Cv Valves

Size (in.)	Cv at Various Opening Degrees		
	30°	60°	90°
3	18	183	300
4	28	287	470
6	66	671	1100
8	150	1525	2500
10	232	2355	3860
12	342	3477	5700

Type 57 LIS Butterfly Valve

is available for direct replacement for metal valves conforming to ISO-5752 short face to face dimensions. Sizes 3" - 8"

Type 57IL - Lever Operated

PVC Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113772030	3772-030	843.00
4	150	113772040	3772-040	1430.00
6	150	113772060	3772-060	1863.00
8	150	113772080	3772-080	2516.00

PVC Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113776030	3776-030	1192.00
4	150	113776040	3776-040	1870.00
6	150	113776060	3776-060	2627.00
8	150	113776080	3776-080	3677.00

PVC Body / PVC Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113780030	3780-030	902.00
4	150	113780040	3780-040	1494.00
6	150	113780060	3780-060	1968.00
8	150	113780080	3780-080	2647.00

PVC Body / PVC Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113784030	3784-030	1192.00
4	150	113784040	3784-040	1870.00
6	150	113784060	3784-060	2627.00
8	150	113784080	3784-080	3677.00

Type 57IL - Plasgear™ Gear Operated

PVC Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113773030	3773-030	1350.00
4	150	113773040	3773-040	1929.00
6	150	113773060	3773-060	2357.00
8	150	113773080	3773-080	2725.00
10	150	113773100	3773-100	4855.00
12	100	113773120	3773-120	6147.00

PVC Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113777030	3777-030	1696.00
4	150	113777040	3777-040	2367.00
6	150	113777060	3777-060	3110.00
8	150	113777080	3777-080	4168.00
10	150	113777100	3777-100	7688.00
12	100	113777120	3777-120	9985.00

PVC Body / PVC Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113781030	3781-030	1407.00
4	150	113781040	3781-040	1996.00
6	150	113781060	3781-060	2461.00
8	150	113781080	3781-080	2853.00
10	150	113781100	3781-100	5084.00
12	100	113781120	3781-120	6418.00

PVC Body / PVC Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
3	150	113785030	3785-030	1775.00
4	150	113785040	3785-040	2455.00
6	150	113785060	3785-060	3258.00
8	150	113785080	3785-080	4349.00
10	150	113785100	3785-100	7916.00
12	100	113785120	3785-120	10253.00

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Butterfly Valves

Asahi Wafer Style Butterfly Valve Type 56



Type-56 butterfly valves are quarter turn plastic valves with equal percentage type flow characteristics. They provide moderate flow control and therefore can be used for both on/off and modulating service. Good tolerance to suspended solids but not recommended for use with slurries or debris. The Type-56 butterfly valve is well suited for a wide variety of fluid flow applications. Can be pneumatically or electrically actuated.

Features:
- Standard model 16" has PP body and PP disc as standard.
- Our 403 stainless steel shaft has full engagement over the entire length of the disc and is a non-wetted part, totally isolated from the media.
- Only solid and abrasion-resistant plastic disc and elastomeric liner are wetted parts.
- ISO bolt circle on top flange - no body or stem modifications required for accessories.

Options:
- Pneumatically and electrically actuated with accessories
- Alternate disc: PVDF
- Lug style (stainless steel 304 or 316) as blocking and end-of-line applications
- Stems in 316 stainless steel, titanium, Hastelloy C®
- 2" square nut on gear operator
- Stem extensions (single stem and two-piece stem)
- Locking devices
- Chain operators
- Manual limit switch - Asahi P-Series

Type 56 Cv Valves

Size (in.)	Cv at Various Opening Degrees		
	30°	60°	90°
16	750	3760	8340

Type 56 - Plasgear™ Gear Operated

PP Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	85	3726160	3726-160	11559.00

PP Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	85	3727160	3727-160	19182.00

PVDF Body / PVDF Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	85	3728160	3728-160	25801.00

PVDF Body / PVDF Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	85	3729160	3729-160	35681.00

Asahi Wafer Style Butterfly Valve Type 75



Type-75 butterfly valves are quarter turn plastic valves with equal percentage type flow characteristics. They provide moderate flow control and therefore can be used for both on/off and modulating service. Good tolerance to suspended solids but not recommended for use with slurries or debris. The Type-75 butterfly valve is well suited for a wide variety of fluid flow applications. Can be pneumatically or electrically actuated.

Features:
- Standard model (18" - 24") has polypropylene body, disc and EPDM seat.
- 403 stainless steel stem has full engagement over the entire length of the disc and is a nonwetted part totally isolated from the media.
- Bubble-tight seating.
- Only abrasion resistant, solid plastic disc and elastomeric liner are wetted parts

Options:
- Pneumatically and electrically actuated with accessories
- Lug style (stainless steel 304 and 316) as blocking and end-of-line applications
- Stems in 316 stainless steel, titanium, Hastelloy C®
- 2" square nut on gear
- Stem extensions (single stem and two-piece stem)
- Locking device
- Chain operators
- Manual limit switch

Type 75 Cv Valves

Size (in.)	Cv at Various Opening Degrees		
	30°	60°	90°
18	1100	5020	10890
20	1448	6620	14060
24	2130	9180	18500

Type 75 - Gear Operated

PP Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
18	75	3801180	3801-180	14388.00
20	50	3801200	3801-200	16047.00
24	50	3801240	3801-240	22928.00

PP Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
18	75	3803180	3803-180	21933.00
20	50	3803200	3803-200	26082.00
24	50	3803240	3803-240	35032.00

PVDF Body / PVDF Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
18	75	3806180	3806-180	35377.00
20	50	3806200	3806-200	43158.00
24	50	3806240	3806-240	54261.00

PVDF Body / PVDF Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
18	75	3807180	3807-180	44415.00
20	50	3807200	3807-200	62603.00
24	50	3807240	3807-240	71469.00

NOTE: Cv value denotes the flow rate in US gallon/min for water at 70° F under a pressure differential 1 psig. When required Kv = Cv/1.17

Asahi Wafer Style Butterfly Valve Type 56D/75D



Type-56D/75D butterfly valves are quarter turn plastic valves with equal percentage type flow characteristics. They provide moderate flow control and therefore can be used for both on/off and modulating service. Good tolerance to suspended solids but not recommended for use with slurries or debris. The Type-56D/75D butterfly valve is well suited for a wide variety of fluid flow applications. Can be pneumatically or electrically actuated.

Features:
- Standard model 16" - 24" has PDCPD body w/PP Disc
- Our 403 stainless steel shaft has full engagement over the entire length of the disc and is a non-wetted part, totally isolated from the media.
- Higher pressure rating than standard 56 or 75 110 PSI at 70 F - all sizes 16" - 24"
- Seat over-tightening protection
- Disc and seat only wetted parts
- Bubble tight sealing
- ISO bolt circle on top flange - no body or stem modifications required for accessories.

Options:
- Pneumatically and electrically actuated with accessories
- Alternate disc: PVDF
- Stems in 316 stainless steel, titanium, Hastelloy C®
- 2" square nut on gear operator
- Stem extensions (single stem and two-piece stem)
- Locking devices
- Chain operators
- Manual limit switch - Asahi P-Series

Type 56D/75D Cv Valves

Size (in.)	Cv at Various Opening Degrees		
	30°	60°	90°
16	750	3760	8340
18	1100	5020	10890
20	1448	6620	14060
24	2130	9180	18500

Type 56D/75D - Gear Operated

PDCPD Body / PP Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	110	3876160	3876-160	11559.00
18	110	3876180	3876-180	14388.00
20	110	3876200	3876-200	16047.00
24	110	3876240	3876-240	22928.00

PDCPD Body / PP Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	110	3878160	3878-160	19182.00
18	110	3878180	3878-180	21933.00
20	110	3878200	3878-200	26082.00
24	110	3878240	3878-240	35032.00

PDCPD Body / PVDF Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	110	3879160	3879-160	14813.00
18	110	3879180	3879-180	18993.00
20	110	3879200	3879-200	23298.00
24	110	3879240	3879-240	30552.00

PDCPD Body / PVDF Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
16	110	3880160	3880-160	22436.00
18	110	3880180	3880-180	26542.00
20	110	3880200	3880-200	33332.00
24	110	3880240	3880-240	42656.00

Asahi Wafer Style Butterfly Valve Type PDCPD



The giant PDCPD butterfly valve features a molded, lined body with full seat design, eliminating the need for additional gaskets and providing a bubble tight seal. The valve has O-Ring seals for exceptional chemical resistance. The valve's spherical shape reduces breakaway and sealing torque for long cycle life, and its wafer style body minimizes space restrictions. Comprised polydicyclopenthadiene (PDCPD), the Giant Butterfly Valve's body and disc are the only parts that come in contact with media. The valve also has non-wetted metal parts, including the stem and internal components, which offer added strength.

The PDCPD butterfly valve has a molded ISO bolt pattern top flange for accessory mounting. Available in sizes ranging from 28" to 40", the valve is rated to a maximum working pressure of 110psi at 175°.

PDCPD large diameter butterfly valves are quarter turn plastic valves with equal percentage type flow characteristics. They provide moderate flow control and therefore can be used for both on/off and modulating service. Good tolerance to suspended solids but not recommended for use with slurries or debris. The PDCPD large diameter butterfly valve is well suited for a wide variety of fluid flow applications.

Features:
- High corrosion resistance PDCPD body
- Light Weight - Considerably lighter than metallic valves of same size
- Full seat liner design - Eliminates mating flange gaskets
- Spherical disc design - For maximum flow characteristics
- Non-wetted metal Parts - No metal to media contact
- ISO 5211 F-Series top flange
- 304 SS stem
- Durable cast iron epoxy coated gear-operator
- Class 6 bubble-tight shut-off

Options:
- 2" Square operating nut on gear-operator

Type PDCPD Cv Valves

Size (in.)	Cv at Various Opening Degrees		
	30°	60°	90°
28	3600	13000	32000
32	4200	17000	43000
36	5600	22000	55000
40	7000	26000	70000
44	6450	36550	86000
48	7500	42500	100000

NOTE: Cv value denotes the flow rate in US gallon/min for water at 70° F under a pressure differential 1 psig. When required Kv = Cv/1.17

Type PDCPD - Gear Operated

PDCPD Body / PDCPD Disc / EPDM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
32	110	1721320	1721-320	48087.00
36	110	1721360	1721-360	66098.00
40	110	1721400	1721-400	78982.00
44	110	1721440	1721-440	96037.00
48	110	1721480	1721-480	100396.00

PDCPD Body / PDCPD Disc / FKM Seals

Size (in.)	PSI	Mfg Part #	ALSCO Part #	Price $
32	110	1723320	1723-320	77521.00
36	110	1723360	1723-360	96027.00
40	110	1723400	1723-400	124853.00

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Butterfly Valves

Asahi Wafer Style Butterfly Valve Type SP Pool-Pro®



The Type SP Pool-Pro® butterfly valves are the first valve designed exclusively for the pool service industry. This cost-effective valve can be completely submerged in chlorinated water. The Pool-Pro's unique blue handle identifies that this valve is ideally suited for use in chlorinated water applications. The Pool-Pro® valve's durable PVC-constructed body provides superior corrosion resistance and weighs less than similar valves made of metal.

The Pool-Pro® butterfly valve provides exceptional, reliable performance, and is virtually maintenance-free. Easy to install, the valve's self-gasketing seat design eliminates the need for mating flange gaskets. The Pool-Pro® comes with an ISO mounting pad, allowing for easy field-mounting of accessory options, including stem extensions, gear operators, and electric or pneumatic actuation. Asahi/America's Pool-Pro® butterfly valve is offered in sizes ranging from 1-1/2" to 12".

Features:

- Submersible - Material of construction allows complete submersion of valve body as all components are compatible with chlorinated water.
- PVC/PVC/EPDM construction - Ideal for Chlorinated water applications.
- Blue handle design: Blue handle designates the proper valve is in place for chlorinated water applications.
- Stainless steel S32101 non-wetted stem: Stem does not come in contact with the media but is still compatible if in direct contact.
- Thermoplastic material: Lightweight construction allows for easy installation.
- ISO mounting pad: Allows for field mounting of accessories including stem extensions, gear operators & automation.
- 18 position throttle plate: For lever handle style

Type SP Pool-Pro® Cv Valves

Size (in.)	Cv at Various Opening Degrees		
	30°	60°	90°
1 1/2	2.9	43.3	71
2	3.9	56.1	92
2 1/2	5.9	85.4	140
3	9.3	134	220
4	15.1	231	380
6	46.6	671	1100
8	106	1425	2500
10	270	1476	3600
12	408	2140	5160

NOTE: Cv value denotes the flow rate in US gallon/min for water at 70° F under a pressure differential 1 psig. When required Kv = Cv/1.17

PVC Body / PVC Disc / EPDM Seals

Size (in.)	PSI	Lever Operated		Price $	Plasgear™ Gear Operated		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
1 1/2	150	1728015	1728-015	174.00	3793015	3793-015	543.00
2	150	1728020	1728-020	174.00	3793020	3793-020	543.00
2 1/2	150	1728025	1728-025	222.00	3793025	3793-025	592.00
3	150	1728030	1728-030	193.00	3793030	3793-030	564.00
4	150	1728040	1728-040	214.00	3793040	3793-040	584.00
6	150	1728060	1728-060	319.00	3793060	3793-060	681.00
8	150	1728085	1728-085	546.00	3793080	3793-080	728.00
10	150	N/A	N/A	N/A	3793100	3793-100	970.00
12	100	N/A	N/A	N/A	3793120	3793-120	2234.00

Size (in.)	PSI	Metal Gear Operated		Price $
		Mfg Part #	ALSCO Part #	
12	100	1728120	1728-120	1637.00

Nil-Cor Butterfly Valve 710 Series



Nil-Cor butterfly valves feature a double-offset disc design normally found only on expensive high performance types. This design allows the disc to move off the seat with a "camming" action, reducing break-away torque and seat wear. The 360° uninterrupted disc seal eliminates the leak path at the shaft hubs found on PTFE and rubber-lined competitors valves. A super-strong 17-4 ph shaft encapsulated with graphite reinforced vinyl ester resin eliminates corrosion and assures long trouble-free operation.

Nil-Cor uses premium epoxy novolac vinyl ester resin and a special blend of fillers, reinforcement and curing agents to produce an inherently corrosion resistant valve. Without the need for expensive liners that eventually swell or permeate, Nil-Cor valves deliver a long, maintenance free service life.

Series 710 PTFE-Lined

- Size Range: 2”-12” Wafer and Lug
- Flange Drilling: ANSI CL 150
- Body Types: Full Faced Wafer, Threaded Lug
- Body Material: Glass Fiber-reinforced Vinyl Ester
- Liner Materials: PTFE, UHMWPE
- Disc Materials: PFA/SS, 316 SS, Titanium, UHMWPE/SS

Size (in.)	Cv 100 gal/min Δp = 1psi
2	104
3	350
4	553
6	1460
8	3077
10	5263
12	7897

NOTE: All Nil-Cor Butterfly Valves are POA - Price On Application

BVC VF-730 Wafer & VF-733 Lug Style Butterfly Valves



Valves Can Be Submersible

VF-730 Wafer Style available in 1 1/2" through 24" and VF-733 Lug Style available in 3" through 14". All valves are internal drive without bolts or pins.

Features:

- Styles: Wafer, Lug, and Double Flanged
- Bodies: Cast Iron, Ductile Iron, Nylon 11 Coated Cast Iron or Ductile Iron, Carbon Steel , 304SS or 316SS
- Body Coating: Standard Two Part Polyester Epoxy, Optional Nylon 11
- Discs : Nylon 11 Coated Ductile Iron, Nylon 11 Coated 316SS, Aluminum Bronze, 304SS or 316SS
- Seats: EPDM, Buna N, FPM, White EPDM, Hypalon, Silicone, Neoprene
- Stems: 410SS, 304SS, 316SS, One Piece Shaft through 24"
- Stem Retention: 3" through 12.0" has Q - Pin Slot in Top Pad Which Retains SS Through Pin, 14.0" through 24.0" and All Stainless Steel Valves Have Removable Plate Retaining the SS through Pin
- Bearings: Bottom Bronze, Top Delrin or Bronze
- Working Pressures: 90 psig, 150 psig, 230 psig Bi - directional Shutoff, 3" through 12" Lug Valves Rated 200 psig Dead End Shutoff, 14" at 150 psig Dead End Shutoff, Full Pressure Valves Tested to 250 psig
- Top Works: Pad and Stem ISO 5211
- Available in ANSI, B.S.TE, PN10, PN16, and JIS10K Configuration

VF-730 Wafer / Cast Iron Nylon Coated Body / EPDM Seat
Nylon Coated Ductile Iron Disc / Undercut - 90 PSIG

Size (in.)	PSI	10 Position Handle		Price $	Gear Operator With Wheel		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3	90	3VF730-622-2	6219-030	105.60	3VF730-622-3	6220-030	167.20
4	90	4VF730-622-2	6219-040	123.75	4VF730-622-3	6220-040	185.35
5	90	5VF730-622-2	6219-050	160.60	5VF730-622-3	6220-050	221.65
6	90	6VF730-622-2	6219-060	184.25	6VF730-622-3	6220-060	245.30
8	90	8VF730-622-2	6219-080	304.70	8VF730-622-3	6220-080	415.25
10	90	10VF730-622-2	6219-100	407.00	10VF730-622-3	6220-100	517.55
12	90	12VF730-622-2	6219-120	540.65	12VF730-622-3	6220-120	651.20
14	90	N/A	N/A	N/A	14VF730-622-3	6220-140	1075.24
16	90	N/A	N/A	N/A	16VF730-622-3	6220-160	1415.15
18	90	N/A	N/A	N/A	18VF730-622-3	6220-180	1994.85
20	90	N/A	N/A	N/A	20VF730-622-3	6220-200	2857.25
24	90	N/A	N/A	N/A	24VF730-622-3	6220-240	3517.25

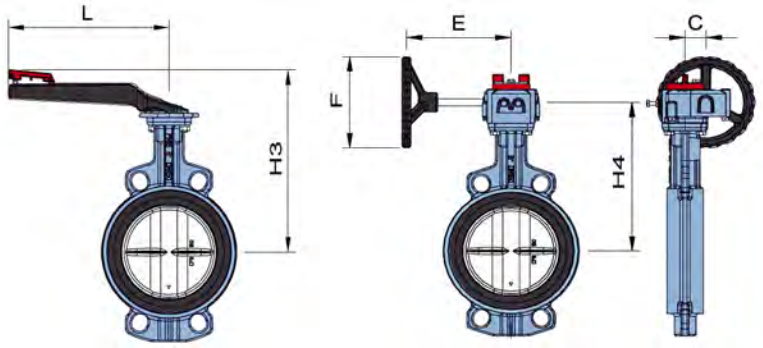
Note: 5" Non Stock Item

Note: 20" and 24" Non Stock Items

VF-733 Lug / Cast Iron Nylon Coated Body / EPDM Seat
Nylon Coated Ductile Iron Disc / Undercut - 90 PSIG

Size (in.)	PSI	10 Position Handle		Price $	Gear Operator With Wheel		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
3	90	3VF733-622-2	6221-030	127.60	3VF733-622-3	6222-030	189.20
4	90	4VF733-622-2	6221-040	163.35	4VF733-622-3	6222-040	224.95
5	90	5VF733-622-2	6221-050	206.80	5VF733-622-3	6222-050	267.85
6	90	6VF733-622-2	6221-060	232.65	6VF733-622-3	6222-060	293.70
8	90	8VF733-622-2	6221-080	362.45	8VF733-622-3	6222-080	473.00
10	90	10VF733-622-2	6221-100	517.00	10VF733-622-3	6222-100	627.55
12	90	12VF733-622-2	6221-120	693.55	12VF733-622-3	6222-120	804.10
14	90	N/A	N/A	N/A	14VF733-622-3	6222-140	1327.15

Note: All Items are Non Stock.



Size		Operator Series No.	Lever Operator		Gear Operator				Handwheel Turns ON/OFF	Mounting Flange (ISO 5211)	
mm	inch		H3	L	H4	C	E	F	N	Type	PCD
80	3	L 7A	9.33	7.87						F07	2.76
		C 07			7.83	1.61	6.1	5.91	10		
100	4	L 7A	10.08	7.87						F07	2.76
		C 07			8.58	1.61	6.1	5.91	10		
125	5	L 7B	10.71	9.84						F07	2.76
		C 07			9.21	1.61	6.1	5.91	10		
150	6	L 7B	11.22	9.84						F07	2.76
		C 07			9.72	1.61	6.1	5.91	10		
200	8	L10	12.76	13.98						F10	4.02
		C10			11.06	2.48	7.68	7.87	9		
250	10	L 10	14.57	13.98						F10	4.02
		C 10			12.87	2.48	7.68	7.87	9		
300	12	L 10	15.47	13.98						F10	4.02
		C 10			13.78	2.48	7.68	7.87	9		
350	14	C 12			14.57	2.4	9.13	12.2	9	F12	4.92
400	16	C 12			15.82	2.4	9.13	12.2	9	F12	4.92
450	18	C 14			17.52	3.19	11.02	15.75	13	F14	5.51
500	20	C 14			18.86	3.19	11.02	15.75	13	F14	5.51
600	24	A2			21.57	4.84	12.09	15.75	17.5	F16	6.5

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Actuated Butterfly Valves

Asahi Electrically Actuated Butterfly Valves



Series 94

Electric Actuator Series 94:
- Motor Type: Reversing, 1/4 Turn Single phase
- Sizes: A94 for sizes 1 1/2" - 2 1/2" B94 for sizes 3" - 4"
- Torque: 150 to 300 in-lbs
- Voltage: 120 Vac, 50/60 Hz
- Amp Draw: A94: .5 Amps B94: .75 Amps
- Max Ambient Temp: 150°F
- Switches: Two single pole, double throw (15 Amp rating)



Features:
- Available in PVC & PVDF
- 100% Duty Cycle
- Cycle Time 5 sec.
- Sizes 1 1/2" - 4"
- EPDM or FKM seals
- Brushless, capacitor-run motors
- Corrosion/weather proof NEMA 4X thermoplastic housing SS trim
- ISO bolt circle
- Compact design
- Two 1/2 NPT conduit ports prevent interference between control and power signals
- Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights
- Visible position indicator

Options:
- Failsafe battery pack
- Extra limits switches
- Feedback potentiometer
- Heater and thermostat (to -40°F)
- Positioner: 4-20 mA or 0-10 Vdc input signal
- 4-20 mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation
- 316 SS tagging
- Local / Remote Station

4

Inch Size	mm Size	Model	H Inch	H1 Inch
1 1/2	40	A94	5.51	2.95
2	50	A94	5.75	3.27
2 1/2	65	B94	6.18	3.66
3	80	B94	6.46	3.94
4	100	B94	7.16	4.53

Engineering Data

Actuat. Model	Torque in/lbs	Duty Cycle	Cycle Time (Sec.)	Weight Lbs.	Amp Draw 115 Vac	220 Vac	24 Vac	12 Vac	24 Vdc	12 Vdc
A94	150	100	5	3.5	0.50	0.8	4.0	2.0	4.0	2.0
B94	300	75	5	3.5	0.75	0.8	4.0	2.0	4.0	2.0

Size (in.)	PVC/PP EPDM Seals Part #	Price $
1 1/2	6746-015	$1350.00
2	6746-020	$1363.00
2 1/2	6746-025	$1402.00
3	6746-030	$1390.00
4	6746-040	$1591.00

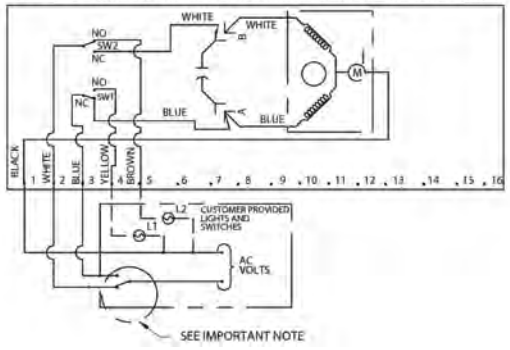
Size (in.)	PVC/PP FKM Seals Part #	Price $
1 1/2	6747-015	$1717.00
2	6747-020	$1524.00
2 1/2	6747-025	$1724.00
3	6747-030	$1687.00
4	6747-040	$1986.00

Size (in.)	PVDF/PVDF EPDM Seals Part #	Price $
1 1/2	6748-015	$1639.00
2	6748-020	$1685.00
2 1/2	6748-025	$1838.00
3	6748-030	$1998.00
4	6748-040	$2718.00

Size (in.)	PVDF/PVDF FKM Seals Part #	Price $
1 1/2	6749-015	$1904.00
2	6749-020	$1904.00
2 1/2	6749-025	$2183.00
3	6749-030	$2253.00
4	6749-040	$3041.00

AC Wiring (For 115 VAC and 220 VAC only)

ACTUATOR SHOWN IN COUNTER-CLOCKWISE EXTREME OF TRAVEL, OR "OPEN" POSITION



Specifications

Series 94:

UL - 508 Listed

Motor Type – Reversing, 1/4 turn, single phase
Sizes – A94 for sizes 1-1/2" – 2" B94 for sizes 2-1/2" – 4"
Torque – 150 to 300 in-lbs
Voltage – 120 VAC, 50/60 Hz
Amp Draw – For A94: .5 Amps For B94: .80 Amps
Max Ambient Temp – 150° F
Switches – Two single pole, double throw (15 Amp rating)

Actuated Butterfly Valves

Asahi Electrically Actuated Butterfly Valves



Series 92

Electric Actuator Series 92:
- Motor Type: Reversing, 1/4 Turn Single phase
- Models: S92, A92, B92, C92 for sizes 1 1/2" - 8" Contact us for sizes 10"- 24"
- Torque: 400 to 2000 in-lbs
- Voltage: 120 Vac, 50/60 Hz
- Max Ambient Temp: 150°F
- Switches: Two single pole, double throw (15 Amp rating)



Features:
- Available in PVC, PP & PVDF
- 100% Duty Cycle
- Cycle Time 10-25 sec.
- Sizes 1 1/2" to 8"
- EPDM or FKM seals
- Brushless, capacitor-run motors
- Combination NEMA 4X, 7 & 9 enclosure with thermally bonded epoxy powder coating with stainless steel trim
- ISO bolt circle
- Two 1/2 NPT conduit ports prevent interference between control and power signals
- Declutchable manual override
- Standard travel-stop limit switches can simultaneously be used for indicator lights
- Highly visible position indicator

Options:
- Failsafe battery pack
- Extra limits switches
- Feedback potentiometer
- Heater and thermostat (to -40°F)
- Positioner: 4-20 mA or 0-10 Vdc input
- 4-20 mA output position transmitter
- Voltages: 220 Vac, 24 Vac, 12 Vac, 24 Vdc, 12 Vdc
- Mechanical brake eliminates seating oscillation
- Bus systems
- 316 SS tagging
- Local / Remote Station

***Note: 10"-14" have Series 10 actuators**

Inch Size	mm Size	Model	H Inch	H1 Inch
1 1/2	40	S92	5.51	2.95
2	50	S92	5.75	3.27
2 1/2	65	S92	6.18	3.66
3	80	S92	6.46	3.94
4	100	S92	7.16	4.53
5	125	A92	8.46	5.00
6	150	B92	8.97	5.63
8	200	C92	11.25	6.70

Engineering Data

Actuat. Model	Torque in/lbs	Duty Cycle	Cycle Time (Sec.)	Weight Lbs.	Amp Draw 115 Vac	220 Vac	24 Vac	12 Vac	24 Vdc	12 Vdc
S92	400	100	10	10.0	0.50	0.8	3.0	2.0	4.0	2.0
A92	700	75	10	10.0	0.75	0.8	3.0	2.0	4.0	2.0
B92	1100	100	25	11.0	0.50	0.6	3.0	2.0	4.0	2.0
C92	2000	50	25	21.00	1.00	0.6	3.0	2.0	4.0	2.0

Size (in.)	PVC/PP EPDM Seals Part #	Price $
1 1/2	6750-015	$1909.00
2	6750-020	$1922.00
2 1/2	6750-025	$1961.00
3	6750-030	$1949.00
4	6750-040	$2003.00
5	6750-050	$2138.00
6	6750-060	$2743.00
8	6750-080	$3406.00
10	6750-100	$6432.00
12	6750-120	$7724.00
14	6750-140	$15266.00

Size (in.)	PVC/PP FKM Seals Part #	Price $
1 1/2	6751-015	$2276.00
2	6751-020	$2083.00
2 1/2	6751-025	$2283.00
3	6751-030	$2246.00
4	6751-040	$2398.00
5	6751-050	$4253.00
6	6751-060	$3541.00
8	6751-080	$4567.00
10	6751-100	$9264.00
12	6751-120	$11562.00
14	6751-140	$28911.00

Size (in.)	PP/PP EPDM Seals Part #	Price $
1 1/2	6752-015	$1719.00
2	6752-020	$1754.00
2 1/2	6752-025	$1949.00
3	6752-030	$2063.00
4	6752-040	$2137.00
5	6752-050	$2992.00
6	6752-060	$3182.00
8	6752-080	$4170.00
10	6752-100	$7754.00
12	6752-120	$9081.00
14	6752-140	$12653.00
16	6752-160	$16938.00

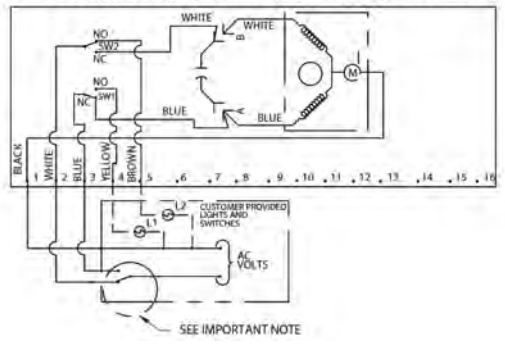
Size (in.)	PP/PP FKM Seals Part #	Price $
1 1/2	6753-015	$1815.00
2	6753-020	$1847.00
2 1/2	6753-025	$2137.00
3	6753-030	$2177.00
4	6753-040	$2251.00
5	6753-050	$4778.00
6	6753-060	$4011.00
8	6753-080	$4529.00
10	6753-100	$8910.00
12	6753-120	$10708.00
14	6753-140	$23347.00
16	6753-160	$24561.00

Size (in.)	PVDF/PVDF EPDM Seals Part #	Price $
1 1/2	6754-015	$2038.00
2	6754-020	$2084.00
2 1/2	6754-025	$2237.00
3	6754-030	$2397.00
4	6754-040	$3012.00
5	6754-050	$5362.00
6	6754-060	$5183.00
8	6754-080	$8997.00
10	6754-100	$14368.00
12	6754-120	$17323.00
14	6754-140	$19794.00
16	6754-160	$31180.00

Size (in.)	PVDF/PVDF FKM Seals Part #	Price $
1 1/2	6755-015	$2303.00
2	6755-020	$2303.00
2 1/2	6755-025	$2582.00
3	6755-030	$2652.00
4	6755-040	$3335.00
5	6755-050	$6225.00
6	6755-060	$5963.00
8	6755-080	$9567.00
10	6755-100	$16445.00
12	6755-120	$20089.00
14	6755-140	$27045.00
16	6755-160	$41060.00

AC Wiring (For 115 VAC and 220 VAC only)

ACTUATOR SHOWN IN COUNTER-CLOCKWISE EXTREME OF TRAVEL, OR "OPEN" POSITION



Specifications

Series 92:

Motor Type – Reversing, 1/4 turn single phase
Models – S92, A92, B92, C92 for sizes1-1/2" – 8"
Contact factory for sizes 10" – 24"
Torque – 400 – 2000 in.-lbs.
Voltage – 120 VAC, 50/60 Hz
Max Ambient Temp – 150° F
Switches – Two single pole, double throw (15 Amp rating)

UL - 508 Listed

Actuated Butterfly Valves

GF Electrically Actuated Butterfly Valves Type 145



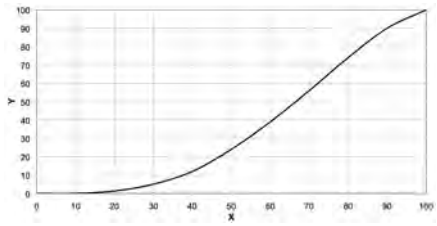
The type 145 electrically actuated butterfly valve from GF Piping Systems is adaptable to a variety of conditions and applications. With the optional positioner, it goes from being a simple on/off valve to a precise flow control device integrated into systems controlled by PLCs and other computerized instrumentation.

Technical Data:
- Size Range: 2" - 12" Lug Style, 2" - 24" Wafer Style
- Pressure Rating: PN10 (150 PSI) (bidirectional)
- Standard Ratings: DIN, ANSI, BS, JIS
- Rated Output: 2" - 2 1/2": 55VA @ 100-230V AC, 60VA @ 24V AC/DC, 3" - 8": 50VA @ 100-230V AC, 55VA @ 24V AC/DC, 10" - 12": 60VA @ 100-230V AC, 65VA @ 24V AC/DC
- Voltage: 110-230V AC or 24V AC/DC
- Duty cycle: 2" - 8": 50%, 10" - 12": 35%
- Materials: PVC, CPVC, PP-H, ABS, PVDF
- Seals: EPDM, FPM, PTFE
- Actuator: EA 45, EA 120, EA 250

Options:
- Positioner (4-20 mA, 0-10V)
- Monitor Board
- Fail-Safe Return
- Profibus DP

Advantages:
- 3 Feedback switches standard
- LED position indicator
- Heater standard
- Fault indicator with digital display
- Middle position included
- Push buton end position adjustment

Flow Characteristics Type 145



Size (in.)	Cv 100 gal/min Δp = 1psi
2	103
2 1/2	154
3	210
4	455
5	805
6	1162
8	2772
10	3570
12	5110

4

PVC / EPDM

Size (in.)	PSI	Without Manual Override		Price $	With Manual Override		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 145 042	4605-020	1406.00	199 145 002	4600-020	2075.00
2 1/2	150	199 145 043	4605-025	1413.00	199 145 003	4600-025	2083.00
3	150	199 145 044	4605-030	1422.00	199 145 004	4600-030	2095.00
4	150	199 145 045	4605-040	1440.00	199 145 005	4600-040	2110.00
5	150	199 145 046	4605-050	1487.00	199 145 006	4600-050	2200.00
6	150	199 145 047	4605-060	1487.00	199 145 007	4600-060	2200.00
8	150	199 145 048	4605-080	2034.00	199 145 008	4600-080	2740.00
10	90	199 145 049	4605-100	3962.00	N/A	N/A	N/A
12	60	199 145 050	4605-120	4266.00	N/A	N/A	N/A

PVC / FPM

Size (in.)	PSI	Without Manual Override		Price $	With Manual Override		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 145 062	4606-020	1500.00	199 145 022	4601-020	2170.00
2 1/2	150	199 145 063	4606-025	1505.00	199 145 023	4601-025	2173.00
3	150	199 145 064	4606-030	1515.00	199 145 024	4601-030	2187.00
4	150	199 145 065	4606-040	1539.00	199 145 025	4601-040	2210.00
5	150	199 145 066	4606-050	1617.00	199 145 026	4601-050	2332.00
6	150	199 145 067	4606-060	1617.00	199 145 027	4601-060	2332.00
8	150	199 145 068	4606-080	2105.00	199 145 028	4601-080	2813.00
10	90	199 145 069	4606-100	4474.00	N/A	N/A	N/A
12	60	199 145 070	4606-120	5195.00	N/A	N/A	N/A

CPVC / EPDM

Size (in.)	PSI	Without Manual Override		Price $	With Manual Override		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 145 202	4612-020	1563.00	199 145 162	4610-020	2232.00
2 1/2	150	199 145 203	4612-025	1605.00	199 145 163	4610-025	2274.00
3	150	199 145 204	4612-030	1681.00	199 145 164	4610-030	2349.00
4	150	199 145 205	4612-040	1756.00	199 145 165	4610-040	2425.00
5	150	199 145 206	4612-050	1938.00	199 145 166	4610-050	2651.00
6	150	199 145 207	4612-060	1938.00	199 145 167	4610-060	2651.00
8	150	199 145 208	4612-080	2515.00	199 145 168	4610-080	3225.00

CPVC / FPM

Size (in.)	PSI	Without Manual Override		Price $	With Manual Override		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 145 222	4613-020	1614.00	199 145 182	4611-020	2282.00
2 1/2	150	199 145 223	4613-025	1676.00	199 145 183	4611-025	2344.00
3	150	199 145 224	4613-030	1754.00	199 145 184	4611-030	2423.00
4	150	199 145 225	4613-040	1831.00	199 145 185	4611-040	2502.00
5	150	199 145 226	4613-050	2032.00	199 145 186	4611-050	2743.00
6	150	199 145 227	4613-060	2032.00	199 145 187	4611-060	2743.00
8	150	199 145 228	4613-080	2639.00	199 145 188	4611-080	3346.00

PP / EPDM

Size (in.)	PSI	Without Manual Override		Price $	With Manual Override		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 145 362	4607-020	1500.00	199 145 322	4602-020	2170.00
2 1/2	150	199 145 363	4607-025	1516.00	199 145 323	4602-025	2187.00
3	150	199 145 364	4607-030	1553.00	199 145 324	4602-030	2222.00
4	150	199 145 365	4607-040	1617.00	199 145 325	4602-040	2402.00
5	150	199 145 366	4607-050	1741.00	199 145 326	4602-050	2402.00
6	150	199 145 367	4607-060	1741.00	199 145 327	4602-060	2457.00
8	150	199 145 368	4607-080	2258.00	199 145 328	4602-080	2964.00
10	90	199 145 369	4607-100	3742.00	N/A	N/A	N/A
12	60	199 145 370	4607-120	3900.00	N/A	N/A	N/A

PP / FPM

Size (in.)	PSI	Without Manual Override		Price $	With Manual Override		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 145 382	4608-020	1577.00	199 145 342	4603-020	2278.00
2 1/2	150	199 145 383	4608-025	1605.00	199 145 343	4603-025	2501.00
3	150	199 145 384	4608-030	1641.00	199 145 344	4603-030	2542.00
4	150	199 145 385	4608-040	1724.00	199 145 345	4603-040	2636.00
5	150	199 145 386	4608-050	1949.00	199 145 346	4603-050	2927.00
6	150	199 145 387	4608-060	1949.00	199 145 347	4603-060	2927.00
8	150	199 145 388	4608-080	2436.00	199 145 348	4603-080	3460.00
10	90	199 145 389	4608-100	4156.00	N/A	N/A	N/A
12	60	199 145 390	4608-120	4218.00	N/A	N/A	N/A

PVDF / FPM

Size (in.)	PSI	Without Manual Override		Price $	With Manual Override		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 145 582	4609-020	1983.00	199 145 562	4604-020	2685.00
2 1/2	150	199 145 583	4609-025	2143.00	199 145 563	4604-025	2845.00
3	150	199 145 584	4609-030	2326.00	199 145 564	4604-030	3027.00
4	150	199 145 585	4609-040	2518.00	199 145 565	4604-040	3222.00
5	150	199 145 586	4609-050	3158.00	199 145 566	4604-050	3908.00
6	150	199 145 587	4609-060	3158.00	199 145 567	4604-060	3908.00
8	150	199 145 588	4609-080	4130.00	199 145 568	4604-080	4874.00

Actuated Butterfly Valves

Hayward Electrically Actuated BYV Series Butterfly Valves



Hayward's HRSN Series electric actuators are designed and produced to provide years of service in demanding industrial environments. They are quarter-turn electric service actuators delivering up to 20,350 lbf-in torque in voltages ranging from 12V up through 480/3 in on/off or proportional control modes. The housings are designed to meet NEMA 4X environmental demands, with ISO5211 compliant mounting.

Features:
- Units are equipped with two (2) volt-free Form A Auxiliary switches rated at up to 3A 250vac
- ISO5211 compliant mounting with a double square female drive
- Raised visual position indicator
- Manual override shaft standard on HRSN2 series
- Manual override hand wheel is available as an option on HRSN2B and HRSN2S models
- Clutch-free manual override handwheel standard on HRSN3 and HRSN4 series
- NEMA 4X/IP67 compliant
- Two (2) 1/2" EMT entry ports with sealed cable glands on HRSN2 series
- Two (2) 3/4" EMT entry ports with sealed cable glands on HRSN3 and HRSN4 series

Options:
- Battery Backup
- Supercap Backup
- Local Control Stations
- IP68 Submersion
- Torque Switches (HRSN3 / 4 Series)
- Motor Control Centers (HRSN3 / 4 Series)
- Interchangeable ISO5211 Flange & Drives (HRSN3 / 4 Series)

Size (in.)	Actuator	PVC / PPL / EPDM		PVC / PPL / FPM	
		Part #	Price $	Part #	Price $
2	HRSN2	0135-020	1042.70	0136-020	1152.05
3	HRSN2	0135-030	1068.35	0136-030	1304.05
4	HRSN3	0135-040	1362.85	0136-040	1688.30
6	HRSN3	0135-060	2231.20	0136-060	2915.00
8	HRSN3	0135-080	2938.25	0136-080	4037.10
10	HRSN4	0135-100	4144015	0136-100	6132.70
12	HRSN4	0135-120	5152.80	0136-120	8133.65

Hayward Pneumatically Actuated BYV Series Butterfly Valves




PCS

Hayward PCS pneumatic actuator offers an air-to-spring 4-piston rack & pinion design with manual override, position indicator, adjustable travel stops and ISO 5211 mounting base.

Hayward PCD pneumatic actuator offers an air-to-air 4-piston rack and pinion design with manual override, position indicator, adjustable travel stops, Namur solenoid mounting and ISO 5211 mounting base.

Features:
- For All Sizes of Ball and Butterfly Valves
- Four-Piston Rack and Pinion Design
- Manual Override
- Compact, Lightweight
- Position Indicator
- Namur-Style Solenoid Mounting (Inlet/Outlet)
- Adjustable Travel Stops
- ISO 5211 Mounting Base

Specifications:
- Enclosure Material: Epoxy-Coated Aluminum
- Output Shaft: Plated Steel
- Air Port Connections: 1/4" NPT
- Air Transfer: Internal
- Cycle Time: Under 1 Second Typical-Depends on Solenoid
- Minimum Air Pressure: 80 PSI
- Maximum Air Pressure: 120 PSI
- Operation: Rack and Pinion


PCD

Options:
- PCS - Spring Return Fail-Safe Operation
- PCD - Double Acting Air-to-Open and Close
- Solenoid Valves with Optional Voltage
- Positioners
- Auxiliary Limit Switches
- Cycle Speed Controls

Fail Safe Close

Size (in.)	Actuator	PVC / PPL / EPDM		PVC / PPL / FPM	
		Part #	Price $	Part #	Price $
2	PCS 25	0161-020	1111.20	0164-020	1220.55
3	PCS 25	0161-030	1136.85	0164-030	1372.55
4	PCS 30	0161-040	1340.50	0164-040	1665.95
6	PCS 35	0161-060	1846.60	0164-060	2530.40
8	PCS 45	0161-080	2922.15	0164-080	4021.00
10	PCS 60	0161-100	4613.30	0164-100	6601.85
12	PCS 60	0161-120	5621.95	0164-120	8602.80

Fail Safe Open

Size (in.)	Actuator	PVC / PPL / EPDM		PVC / PPL / FPM	
		Part #	Price $	Part #	Price $
2	PCS 25	0162-020	1111.20	0165-020	1220.55
3	PCS 25	0162-030	1136.85	0165-030	1372.55
4	PCS 30	0162-040	1340.50	0165-040	1665.95
6	PCS 35	0162-060	1846.60	0165-060	2530.40
8	PCS 45	0162-080	2922.15	0165-080	4021.00
10	PCS 60	0162-100	4613.30	0165-100	6601.85
12	PCS 60	0162-120	5621.95	0165-120	8602.80

Double Acting

Size (in.)	Actuator	PVC / PPL / EPDM		PVC / PPL / FPM	
		Part #	Price $	Part #	Price $
2	PCD 20	0163-020	863.90	0166-020	973.25
3	PCD 20	0163-030	889.55	0166-030	1125.25
4	PCD 25	0163-040	1096.60	0166-040	1422.05
6	PCD 30	0163-060	1334.65	0166-060	2018.45
8	PCD 35	0163-080	2057.55	0166-080	3156.40
10	PCD 45	0163-100	3428.15	0166-100	5416.70
12	PCD 45	0163-120	4436.80	0166-120	7417.65

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 071018

Actuated Butterfly Valves

GF Pneumatically Actuated Butterfly Valves Type 240



The type 240 series pneumatically actuated wafer style butterfly valve from GF Piping Systems is the ultimate choice for the high demands of the industrial world. The unique double eccentric design means the disc is not in contact with the seal in the open position. The result is less wear and operating torques that are half that of our previous model. Better chemical compatibility is achieved because the inner body is the same material as the pipe.

The unique o-ring design insures a superior seal with virtually any type of flange without the need for additional gaskets. Additionally, the electro-pneumatic positioner, stroke limiter, and feed back switches give flexibility for integration into a wide variety of applications.

Model:
- Connecting dimension: ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B 16.5 Class 150, BS 1560: 1989, BS 4504, JIS B 2220
- Overall length according to EN 558, ISO 5752
- Control range 90°

Options:
- Limit switches
- ASI control
- Declutchable manual override
- Electro-pneumatic positioner (4-20mA) or 3-15 PSI
- Lug Style

Advantages:
- Double eccentric, off-center shaft for reduced wear and lower torque requirements
- Size range 2” to 12” wafer style
- Special o-ring design eliminates the need for flange gaskets

Flow Characteristics Type 240

Size (in.)	Cv 100 gal/min Δp = 1psi
2	103
2 1/2	154
3	210
4	455
5	805
6	1162
8	2772
10	3570
12	5110

PVC / EPDM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 002	0167-020	695.00	199 240 042	0168-020	695.00	199 240 082	0169-020	580.00
2 1/2	150	199 240 003	0167-025	796.00	199 240 043	0168-025	796.00	199 240 083	0169-025	617.00
3	150	199 240 004	0167-030	796.00	199 240 044	0168-030	796.00	199 240 084	0169-030	617.00
4	150	199 240 005	0167-040	812.00	199 240 045	0168-040	812.00	199 240 085	0169-040	640.00
5	150	199 240 006	0167-050	1244.00	199 240 046	0168-050	1244.00	199 240 086	0169-050	870.00
6	150	199 240 007	0167-060	1244.00	199 240 047	0168-060	1244.00	199 240 087	0169-060	870.00
8	150	199 240 008	0167-080	1553.00	199 240 048	0168-080	1553.00	199 240 088	0169-080	1053.00
10	150	199 240 009	0167-100	4202.00	199 240 049	0168-100	4202.00	199 240 089	0169-100	3092.00
12	150	199 240 010	0167-120	4954.00	199 240 050	0168-120	4954.00	199 240 090	0169-120	3619.00

PVC / FPM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 022	0170-020	788.00	199 240 062	0171-020	788.00	199 240 102	0172-020	673.00
2 1/2	150	199 240 023	0170-025	885.00	199 240 063	0171-025	885.00	199 240 103	0172-025	709.00
3	150	199 240 024	0170-030	885.00	199 240 064	0171-030	885.00	199 240 104	0172-030	709.00
4	150	199 240 025	0170-040	912.00	199 240 065	0171-040	912.00	199 240 105	0172-040	739.00
5	150	199 240 026	0170-050	1374.00	199 240 066	0171-050	1374.00	199 240 106	0172-050	999.00
6	150	199 240 027	0170-060	1374.00	199 240 067	0171-060	1374.00	199 240 107	0172-060	999.00
8	150	199 240 028	0170-080	1625.00	199 240 068	0171-080	1625.00	199 240 108	0172-080	1127.00
10	150	199 240 029	0170-100	4714.00	199 240 069	0171-100	4714.00	199 240 109	0172-100	3603.00
12	150	199 240 030	0170-120	5886.00	199 240 070	0171-120	5886.00	199 240 110	0172-120	4556.00

CPVC / EPDM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 162	0292-020	850.00	199 240 202	0293-020	850.00	199 240 242	0294-020	736.00
2 1/2	150	199 240 163	0292-025	1053.00	199 240 203	0293-025	1053.00	199 240 243	0294-025	876.00
3	150	199 240 164	0292-030	1053.00	199 240 204	0293-030	1053.00	199 240 244	0294-030	876.00
4	150	199 240 165	0292-040	1127.00	199 240 205	0293-040	1127.00	199 240 245	0294-040	952.00
5	150	199 240 166	0292-050	1691.00	199 240 206	0293-050	1691.00	199 240 246	0294-050	1317.00
6	150	199 240 167	0292-060	1691.00	199 240 207	0293-060	1691.00	199 240 247	0294-060	1317.00
8	150	199 240 168	0292-080	2039.00	199 240 208	0293-080	2039.00	199 240 248	0294-080	1535.00

CPVC / FPM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 182	0295-020	903.00	199 240 222	0296-020	903.00	199 240 262	0297-020	786.00
2 1/2	150	199 240 183	0295-025	1127.00	199 240 223	0296-025	1127.00	199 240 263	0297-025	947.00
3	150	199 240 184	0295-030	1127.00	199 240 224	0296-030	1127.00	199 240 264	0297-030	947.00
4	150	199 240 185	0295-040	1206.00	199 240 225	0296-040	1206.00	199 240 265	0297-040	1031.00
5	150	199 240 186	0295-050	1786.00	199 240 226	0296-050	1786.00	199 240 266	0297-050	1410.00
6	150	199 240 187	0295-060	1786.00	199 240 227	0296-060	1786.00	199 240 267	0297-060	1410.00
8	150	199 240 188	0295-080	2158.00	199 240 228	0296-080	2158.00	199 240 268	0297-080	1656.00

Actuated Butterfly Valves

GF Pneumatically Actuated Butterfly Valves Type 240

PP / EPDM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 282	0173-020	788.00	199 240 322	0174-020	748.00	199 240 362	0175-020	616.00
2 1/2	150	199 240 283	0173-025	862.00	199 240 323	0174-025	862.00	199 240 363	0175-025	747.00
3	150	199 240 284	0173-030	862.00	199 240 324	0174-030	862.00	199 240 364	0175-030	747.00
4	150	199 240 285	0173-040	924.00	199 240 325	0174-040	924.00	199 240 365	0175-040	816.00
5	150	199 240 286	0173-050	1335.00	199 240 326	0174-050	1335.00	199 240 366	0175-050	1123.00
6	150	199 240 287	0173-060	1335.00	199 240 327	0174-060	1335.00	199 240 367	0175-060	1123.00
8	150	199 240 288	0173-080	1588.00	199 240 328	0174-080	1588.00	199 240 368	0175-080	1277.00
10	120	199 240 289	0173-100	3956.00	199 240 329	0174-100	4322.00	199 240 369	0175-100	3075.00
12	120	199 240 290	0173-120	5007.00	199 240 330	0174-120	4907.00	199 240 370	0175-120	3842.00

PP / FPM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 302	0176-020	835.00	199 240 342	0177-020	835.00	199 240 382	0178-020	749.00
2 1/2	150	199 240 303	0176-025	949.00	199 240 343	0177-025	949.00	199 240 383	0178-025	834.00
3	150	199 240 304	0176-030	949.00	199 240 344	0177-030	949.00	199 240 384	0178-030	834.00
4	150	199 240 305	0176-040	1031.00	199 240 345	0177-040	1031.00	199 240 385	0178-040	926.00
5	150	199 240 306	0176-050	1546.00	199 240 346	0177-050	1546.00	199 240 386	0178-050	1333.00
6	150	199 240 307	0176-060	1546.00	199 240 347	0177-060	1546.00	199 240 387	0178-060	1333.00
8	150	199 240 308	0176-080	1765.00	199 240 348	0177-080	1765.00	199 240 388	0178-080	1456.00
10	120	199 240 309	0176-100	4361.00	199 240 349	0177-100	4717.00	199 240 389	0178-100	3484.00
12	120	199 240 310	0176-120	5532.00	199 240 350	0177-120	5433.00	199 240 390	0178-120	4368.00

PVDF / FPM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 462	0179-020	1236.00	199 240 482	0180-020	1236.00	199 240 502	0181-020	1119.00
2 1/2	150	199 240 463	0179-025	1667.00	199 240 483	0180-025	1667.00	199 240 503	0181-025	1481.00
3	150	199 240 464	0179-030	1667.00	199 240 484	0180-030	1667.00	199 240 504	0181-030	1481.00
4	150	199 240 465	0179-040	1856.00	199 240 485	0180-040	1856.00	199 240 505	0181-040	1680.00
5	150	199 240 466	0179-050	2898.00	199 240 486	0180-050	2898.00	199 240 506	0181-050	2506.00
6	150	199 240 467	0179-060	2898.00	199 240 487	0180-060	2898.00	199 240 507	0181-060	2506.00
8	150	199 240 468	0179-080	3627.00	199 240 488	0180-080	3627.00	199 240 508	0181-080	3103.00
10	120	199 240 469	0179-100	6432.00	199 240 489	0180-100	6823.00	199 240 509	0181-100	5513.00
12	120	199 240 470	0179-120	8151.00	199 240 490	0180-120	8055.00	199 240 510	0181-120	6944.00

PVDF / PTFE / FPM

Size (in.)	PSI	Fail Safe Close		Price $	Fail Safe Open		Price $	Double Acting		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
2	150	199 240 522	0195-020	1850.00	199 240 542	0196-020	1850.00	199 240 562	0197-020	1533.00
2 1/2	150	199 240 523	0195-025	2356.00	199 240 543	0196-025	2356.00	199 240 563	0197-025	1767.00
3	150	199 240 524	0195-030	2356.00	199 240 544	0196-030	2356.00	199 240 564	0197-030	1767.00
4	150	199 240 525	0195-040	3006.00	199 240 545	0196-040	3006.00	199 240 565	0197-040	2230.00
5	150	199 240 526	0195-050	4298.00	199 240 546	0196-050	4298.00	199 240 566	0197-050	3405.00
6	150	199 240 527	0195-060	4298.00	199 240 547	0196-060	4298.00	199 240 567	0197-060	3405.00
8	150	199 240 528	0195-080	6605.00	199 240 548	0196-080	6605.00	199 240 568	0197-080	4766.00

Electric and Pneumatic Actuated Butterfly Valve Accessories

Pneumatic Rotary Actuators PA

Size (in.)	Type	Fail Safe Close Part #	Price $	Fail Safe Open Part #	Price $	Double Acting Part #	Price $
2 - 2 1/2	PA30	198 800 757	364.00	198 811 025	364.00	198 800 758	261.00
3	PA35	198 800 037	419.00	198 811 026	419.00	198 800 759	279.00
4	PA40	198 800 728	478.00	198 811 027	478.00	198 800 040	323.00
5	PA45	198 800 039	582.00	198 811 028	582.00	198 800 040	323.00
6	PA50	198 800 729	726.00	198 811 029	726.00	198 800 042	447.00
8	PA55	198 800 041	895.00	198 811 030	895.00	198 800 042	447.00

Intermediate Kits for Butterfly Valve Pneumatic Actuators

Size (in.)	Fail Safe Close/Open Part #	Price $	Double Acting Part #	Price $
2 - 2 1/2	2324-025	88.00	2325-025	85.00
3	2324-030	104.00	2325-030	85.00
4	2324-040	144.00	2325-040	140.00
5	2324-050	119.00	2325-050	140.00
6	2324-060	140.00	2325-060	140.00
8	2324-080	119.00	2325-080	140.00

Pneumatic Actuator Accessories

Description	Part #	Price $
Limit Switch Box with 2 Auxiliary Switches	2198	356.00
Limit Switch Box with 2 Inductive Switches NPN	2199	575.00
Limit Switch Box with 2 Inductive Switches PNP	2299	575.00
Limit Switch Box with 2 Inductive Switches Namur	2300	582.00
Namur Connecting Plate	2302	63.00
Namur Mounting Flange	2301	54.00

Electric Actuator

Description	Part #	Price $
EA 45 - 100-230 V, 50-60Hz	2157	1135.00
EA 45 - 24 VDC-AC, 50-60Hz	2158	1135.00
EA 120 - 100-230 V, 50-60Hz	2159	1342.00
EA 120 - 24 VDC-AC, 50-60Hz	2160	1342.00

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Actuated Butterfly Valves

Asahi Pneumatically Actuated Butterfly Valves

Series 79P



Features

- Available in PVC, CPVC, PP, & PVDF
- Double piston, double rack and pinion design (Polyamid-Nylon 66)
- Air-to-Air (double acting) or Air-to-Spring (spring return failsafe) models
- Position indication through highly visible indicator knob
- Manual override easily employed by inserting wrench onto flats of stem. A declutchable gear operator is required on Air-to-Air sizes 8" and above and on all Air-to-Spring sizes
- Actuator shaft 303 stainless steel
- Air-to-Air actuators up to 6" and Air-to-Spring up to 4" have PEG plastic enclosures. Larger sizes feature aluminum bodies with Rilsan (Nylon 11) coating inside and outside.
- Concentric spring sets allow consistent output torque

Options

- Solenoids in various NEMA enclosures ratings and voltages are supplied with muffler speed control and push button override
- Double limit switches in NEMA IV and VII enclosures
- Positioner for modulating service: 4-20 mA or 3-15 psi control signal (requiring no solenoid)
- 316 stainless steel actuator body
- ISO and NAMUR mounting dimensions allow for valve accessory mounting
- Bus systems

4

Air to Air

Size (in.)	PVC/PP EPDM Seals Part #	Price $
1 1/2	6790-015	$959.00
2	6790-020	$972.00
2 1/2	6790-025	$1011.00
3	6790-030	$1128.00
4	6790-040	$1182.00
5	6790-050	$1482.00
6	6790-060	$1756.00
8	6790-080	$3175.00
10	6790-100	$3537.00
12	6790-120	$5591.00
14	6790-140	$12751.00

Size (in.)	PVC/PP FKM Seals Part #	Price $
1 1/2	6791-015	$1326.00
2	6791-020	$1133.00
2 1/2	6791-025	$1333.00
3	6791-030	$1425.00
4	6791-040	$1577.00
5	6791-050	$3597.00
6	6791-060	$2554.00
8	6791-080	$4336.00
10	6791-100	$6369.00
12	6791-120	$9429.00
14	6791-140	$26396.00

Size (in.)	PP/PP EPDM Seals Part #	Price $
1 1/2	6792-015	$1178.00
2	6792-020	$1213.00
2 1/2	6792-025	$1408.00
3	6792-030	$1614.00
4	6792-040	$1688.00
5	6792-050	$2336.00
6	6792-060	$2614.00
8	6792-080	$4142.00
10	6792-100	$4859.00
12	6792-120	$6948.00
14	6792-140	$10138.00
16	6792-160	$14166.00

Size (in.)	PP/PP FKM Seals Part #	Price $
1 1/2	6793-015	$1274.00
2	6793-020	$1306.00
2 1/2	6793-025	$1596.00
3	6793-030	$1728.00
4	6793-040	$1802.00
5	6793-050	$4122.00
6	6793-060	$3443.00
8	6793-080	$4501.00
10	6793-100	$6015.00
12	6793-120	$8575.00
14	6793-140	$20832.00
16	6793-160	$21789.00

Size (in.)	PVDF/PVDF EPDM Seals Part #	Price $
1 1/2	6794-015	$1497.00
2	6794-020	$1543.00
2 1/2	6794-025	$1696.00
3	6794-030	$1948.00
4	6794-040	$2563.00
5	6794-050	$4706.00
6	6794-060	$4615.00
8	6794-080	$8969.00
10	6794-100	$11473.00
12	6794-120	$15190.00
14	6794-140	$17279.00
16	6794-160	$28408.00

Size (in.)	PVDF/PVDF FKM Seals Part #	Price $
1 1/2	6795-015	$1762.00
2	6795-020	$1762.00
2 1/2	6795-025	$2041.00
3	6795-030	$2203.00
4	6795-040	$2886.00
5	6795-050	$5569.00
6	6795-060	$5395.00
8	6795-080	$9539.00
10	6795-100	$13560.00
12	6795-120	$17956.00
14	6795-140	$24530.00
16	6795-160	$38288.00

Air to Spring

(Supplied Failsafe closed, must specify for Failsafe open)

Size (in.)	PVC/PP EPDM Seals Part #	Price $
1 1/2	6796-015	$1244.00
2	6796-020	$1257.00
2 1/2	6796-025	$1332.00
3	6796-030	$1657.00
4	6796-040	$1711.00
5	6796-050	$2084.00
6	6796-060	$2475.00
8	6796-080	$4272.00
10	6796-100	$4320.00
12	6796-120	$8923.00
14	6796-140	$21755.00

Size (in.)	PVC/PP FKM Seals Part #	Price $
1 1/2	6797-015	$1611.00
2	6797-020	$1418.00
2 1/2	6797-025	$1654.00
3	6797-030	$1954.00
4	6797-040	$2106.00
5	6797-050	$4117.00
6	6797-060	$3273.00
8	6797-080	$5433.00
10	6797-100	$7152.00
12	6797-120	$12761.00
14	6797-140	$35400.00

Size (in.)	PP/PP EPDM Seals Part #	Price $
1 1/2	6798-015	$1381.00
2	6798-020	$1416.00
2 1/2	6798-025	$1637.00
3	6798-030	$1992.00
4	6798-040	$2066.00
5	6798-050	$2938.00
6	6798-060	$3128.00
8	6798-080	$4925.00
10	6798-100	$5642.00
12	6798-120	$10280.00
14	6798-140	$19142.00
16	6798-160	$23170.00

Size (in.)	PP/PP FKM Seals Part #	Price $
1 1/2	6799-015	$1477.00
2	6799-020	$1509.00
2 1/2	6799-025	$1825.00
3	6799-030	$2106.00
4	6799-040	$2180.00
5	6799-050	$4724.00
6	6799-060	$3957.00
8	6799-080	$5284.00
10	6799-100	$6798.00
12	6799-120	$11907.00
14	6799-140	$29836.00
16	6799-160	$30793.00

Size (in.)	PVDF/PVDF EPDM Seals Part #	Price $
1 1/2	6800-015	$1700.00
2	6800-020	$1746.00
2 1/2	6800-025	$1925.00
3	6800-030	$2326.00
4	6800-040	$2941.00
5	6800-050	$5308.00
6	6800-060	$5129.00
8	6800-080	$9752.00
10	6800-100	$12256.00
12	6800-120	$18522.00
14	6800-140	$26283.00
16	6800-160	$37412.00

Size (in.)	PVDF/PVDF FKM Seals Part #	Price $
1 1/2	6801-015	$1965.00
2	6801-020	$1965.00
2 1/2	6801-025	$2270.00
3	6801-030	$2581.00
4	6801-040	$3264.00
5	6801-050	$6171.00
6	6801-060	$5909.00
8	6801-080	$10322.00
10	6801-100	$14343.00
12	6801-120	$21288.00
14	6801-140	$33534.00
16	6801-160	$47292.00

Diaphragm Valves

ASAHI Diaphragm Flanged Valves



Features:

- Size: 1/2" - 10"
- Body: PVC, CPVC, PP & PVDF
- Bonnet: PVC, PP, PPG & PVDF
- Diaphragms: EPDM & PTFE
- Bubble-tight sealing
- Built-in travel stop to prevent over-tightening
- Weir design for excellent throttling

Size	PVC		CPVC *		PP *		PVDF *		Cv
	30° 105°	106° 140°	30° 105°	106° 140°	-5° 105°	106° 140°	-40° 140°	141° 175°	
1/2	150	100	150	115	150	115	150	120	4.8
3/4	150	100	150	115	150	115	150	120	5.3
1	150	100	150	115	150	115	150	120	8.5
1 1/4	150	100	150	115	150	115	150	120	11.0
1 1/2	150	100	150	115	150	115	150	120	26
2	150	100	150	115	150	115	150	120	43
2 1/2	150	115	150	120	150	120	150	115	85
3	150	115	150	120	150	120	150	115	115
4	150	115	150	120	150	120	150	115	185

* There are other Pressure and Temperature ranges

Diaphragm Valves Flanged Manual (Sizes 1/2"-4" Type 14) (5"-6" Type 15) (8"-10" Type G)

4

Size (in.)	PVC/PVC EPDM flanged Part #	Price $
1/2	1461-005	$145.00
3/4	1461-007	$163.00
1	1461-010	$208.00
1 1/4	1461-012	$248.00
1 1/2	1461-015	$314.00
2	1461-020	$372.00
2 1/2	1461-025	$533.00
3	1461-030	$608.00
4	1461-040	$888.00
5	1461-050	$1379.00
6	1461-060	$1886.00
8	1461-080	$4035.00
10	1461-100	$6863.00

Size (in.)	PVC/PVC PTFE flanged Part #	Price $
1/2	1462-005	$237.00
3/4	1462-007	$246.00
1	1462-010	$332.00
1 1/4	1462-012	$419.00
1 1/2	1462-015	$491.00
2	1462-020	$605.00
2 1/2	1462-025	$842.00
3	1462-030	$1047.00
4	1462-040	$1477.00
5	1462-050	$2715.00
6	1462-060	$3498.00
8	1462-080	$4977.00
10	1462-100	$9521.00

Size (in.)	PP/PP EPDM flanged Part #	Price $
1/2	1465-005	$188.00
3/4	1465-007	$205.00
1	1465-010	$259.00
1 1/4	1465-012	$325.00
1 1/2	1465-015	$400.00
2	1465-020	$471.00
2 1/2	1465-025	$667.00
3	1465-030	$767.00
4	1465-040	$1124.00
5	1465-050	$1654.00
6	1465-060	$2208.00
8	1465-080	$4846.00
10	1465-100	$8239.00

Size (in.)	PP/PP PTFE flanged Part #	Price $
1/2	1466-005	$278.00
3/4	1466-007	$291.00
1	1466-010	$392.00
1 1/4	1466-012	$462.00
1 1/2	1466-015	$579.00
2	1466-020	$708.00
2 1/2	1466-025	$989.00
3	1466-030	$1226.00
4	1466-040	$1723.00
5	1466-050	$2947.00
6	1466-060	$3817.00
8	1466-080	$5778.00
10	1466-100	$10841.00

Size (in.)	CPVC/PP EPDM flanged Part #	Price $
1/2	1463-005	$217.00
3/4	1463-007	$237.00
1	1463-010	$300.00
1 1/4	1463-012	$430.00
1 1/2	1463-015	$461.00
2	1463-020	$552.00
2 1/2	1463-025	$771.00
3	1463-030	$987.00
4	1463-040	$1309.00

Size (in.)	CPVC/PP PTFE flanged Part #	Price $
1/2	1464-005	$310.00
3/4	1464-007	$332.00
1	1464-010	$411.00
1 1/4	1464-012	$514.00
1 1/2	1464-015	$611.00
2	1464-020	$686.00
2 1/2	1464-025	$1145.00
3	1464-030	$1409.00
4	1464-040	$1988.00

Size (in.)	PVDF/PVDF* PTFE flanged Part #	Price $
1/2	1467-005	$340.00
3/4	1467-007	$396.00
1	1467-010	$565.00
1 1/4	1467-012	$671.00
1 1/2	1467-015	$840.00
2	1467-020	$1066.00
2 1/2	1467-025	$1724.00
3	1467-030	$2185.00
4	1467-040	$3119.00
5	1467-050	$4744.00
6	1467-060	$7317.00
8	1467-080	$14862.00
10	1467-100	$23582.00

Size (in.)	PVDF/PPG PTFE flanged Part #	Price $
1/2	1468-005	$281.00
3/4	1468-007	$315.00
1	1468-010	$465.00
1 1/4	1468-012	$647.00
1 1/2	1468-015	$690.00
2	1468-020	$872.00
2 1/2	1468-025	$1260.00
3	1468-030	$1588.00
4	1468-040	$2266.00
5	1468-050	$3481.00
6	1468-060	$5325.00
8	1468-080	$10810.00
10	1468-100	$15469.00

All PVDF diaphragm valves have PVDF gas barrier as a standard feature. * Special order from Japan.
PVDF gas barriers available for all material diaphragm valves with PTFE diaphragm.
CAUTION: Never remove valve from pipeline under pressure. Always wear protective gloves and goggles.

All prices subject to change without notice.

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Diaphragm Valves

ASAHI Diaphragm Valves Type 14 True Union



Features:

- Size: 1/2" - 2"
- Body: PVC, CPVC, PP & PVDF
- Bonnet: PVC, PP, PPG & PVDF
- Ends:
  PVC, CPVC: IPS Soc. or Thd.
  PP, PVDF: IPS & Metric (Din)
  Socket, Threaded, Butt
- Diaphragms: EPDM & PTFE
- Bubble-tight sealing
- Built-in travel stop to prevent over-tightening

Size	PVC		CPVC *		PP *		PVDF *		Cv
	30° 105°	106° 140°	30° 105°	106° 140°	-5° 105°	106° 140°	-40° 140°	141° 175°	
1/2	150	100	150	115	150	115	150	120	4.8
3/4	150	100	150	115	150	115	150	120	5.3
1	150	100	150	115	150	115	150	120	8.5
1 1/4	150	100	150	115	150	115	150	120	11.0
1 1/2	150	100	150	115	150	115	150	120	26
2	150	100	150	115	150	115	150	120	43

* There are other Pressure and Temperature ranges

Caution: Never remove valve from pipeline under pressure. Always wear protective gloves and goggles.

Diaphragm Valves Type 14 True Union - Manual

Size (in.)	PVC/PVC EPDM soc/thr Part #	Price $
1/2	6756-005-S	$126.00
1/2	6756-005-T	$126.00
3/4	6756-007-S	$140.00
3/4	6756-007-T	$140.00
1	6756-010-S	$180.00
1	6756-010-T	$180.00
1 1/4	6756-012-S	$269.00
1 1/4	6756-012-T	$269.00
1 1/2	6756-015-S	$269.00
1 1/2	6756-015-T	$269.00
2	6756-020-S	$321.00
2	6756-020-T	$321.00

Size (in.)	PVC/PVC PTFE soc/thr Part #	Price $
1/2	6757-005-S	$207.00
1/2	6757-005-T	$207.00
3/4	6757-007-S	$215.00
3/4	6757-007-T	$215.00
1	6757-010-S	$289.00
1	6757-010-T	$289.00
1 1/4	6757-012-S	$423.00
1 1/4	6757-012-T	$423.00
1 1/2	6757-015-S	$423.00
1 1/2	6757-015-T	$423.00
2	6757-020-S	$523.00
2	6757-020-T	$523.00

Size (in.)	CPVC/PP EPDM soc/thr Part #	Price $
1/2	6758-005-S	$177.00
1/2	6758-005-T	$177.00
3/4	6758-007-S	$192.00
3/4	6758-007-T	$192.00
1	6758-010-S	$247.00
1	6758-010-T	$247.00
1 1/4	6758-012-S	$377.00
1 1/4	6758-012-T	$377.00
1 1/2	6758-015-S	$377.00
1 1/2	6758-015-T	$377.00
2	6758-020-S	$447.00
2	6758-020-T	$447.00

Size (in.)	CPVC/PP PTFE soc/thr Part #	Price $
1/2	6759-005-S	$260.00
1/2	6759-005-T	$260.00
3/4	6759-007-S	$281.00
3/4	6759-007-T	$281.00
1	6759-010-S	$369.00
1	6759-010-T	$369.00
1 1/4	6759-012-S	$549.00
1 1/4	6759-012-T	$549.00
1 1/2	6759-015-S	$549.00
1 1/2	6759-015-T	$549.00
2	6759-020-S	$673.00
2	6759-020-T	$673.00

Size (in.)	PP/PP EPDM Butt/soc/thr Part #	Price $
1/2	6760-005-B	$182.00
1/2	6760-005-DS	$182.00
1/2	6760-005-S	$182.00
1/2	6760-005-T	$182.00
3/4	6760-007-B	$196.00
3/4	6760-007-DS	$196.00
3/4	6760-007-S	$196.00
3/4	6760-007-T	$196.00
1	6760-010-B	$250.00
1	6760-010-DS	$250.00
1	6760-010-S	$250.00
1	6760-010-T	$250.00
1 1/4	6760-012-B	$376.00
1 1/4	6760-012-DS	$376.00
1 1/4	6760-012-S	$376.00
1 1/4	6760-012-T	$376.00
1 1/2	6760-015-B	$376.00
1 1/2	6760-015-DS	$376.00
1 1/2	6760-015-S	$376.00
1 1/2	6760-015-T	$376.00
2	6760-020-B	$444.00
2	6760-020-DS	$444.00
2	6760-020-S	$444.00
2	6760-020-T	$444.00

Size (in.)	PP/PP PTFE Butt/soc/thr Part #	Price $
1/2	6761-005-B	$263.00
1/2	6761-005-DS	$263.00
1/2	6761-005-S	$263.00
1/2	6761-005-T	$263.00
3/4	6761-007-B	$278.00
3/4	6761-007-DS	$278.00
3/4	6761-007-S	$278.00
3/4	6761-007-T	$278.00
1	6761-010-B	$372.00
1	6761-010-DS	$372.00
1	6761-010-S	$372.00
1	6761-010-T	$372.00
1 1/4	6761-012-B	$550.00
1 1/4	6761-012-DS	$550.00
1 1/4	6761-012-S	$550.00
1 1/4	6761-012-T	$550.00
1 1/2	6761-015-B	$550.00
1 1/2	6761-015-DS	$550.00
1 1/2	6761-015-S	$550.00
1 1/2	6761-015-T	$550.00
2	6761-020-B	$670.00
2	6761-020-DS	$670.00
2	6761-020-S	$670.00
2	6761-020-T	$670.00

Size (in.)	PVDF/PVDF PTFE Butt/soc/thr Part #	Price $
1/2	6762-005-B	$316.00
1/2	6762-005-DS	$316.00
1/2	6762-005-S	$316.00
1/2	6762-005-T	$316.00
3/4	6762-007-B	$383.00
3/4	6762-007-DS	$383.00
3/4	6762-007-S	$383.00
3/4	6762-007-T	$383.00
1	6762-010-B	$517.00
1	6762-010-DS	$517.00
1	6762-010-S	$517.00
1	6762-010-T	$517.00
1 1/4	6762-012-B	$704.00
1 1/4	6762-012-DS	$704.00
1 1/4	6762-012-S	$704.00
1 1/4	6762-012-T	$704.00
1 1/2	6762-015-B	$770.00
1 1/2	6762-015-DS	$770.00
1 1/2	6762-015-S	$770.00
1 1/2	6762-015-T	$770.00
2	6762-020-B	$964.00
2	6762-020-DS	$964.00
2	6762-020-S	$964.00
2	6762-020-T	$964.00

Size (in.)	PVDF/PPG PTFE Butt/soc/thr Part #	Price $
1/2	6763-005-B	$259.00
1/2	6763-005-DS	$259.00
1/2	6763-005-S	$259.00
1/2	6763-005-T	$259.00
3/4	6763-007-B	$293.00
3/4	6763-007-DS	$293.00
3/4	6763-007-S	$293.00
3/4	6763-007-T	$293.00
1	6763-010-B	$434.00
1	6763-010-DS	$434.00
1	6763-010-S	$434.00
1	6763-010-T	$434.00
1 1/4	6763-012-B	$645.00
1 1/4	6763-012-DS	$645.00
1 1/4	6763-012-S	$645.00
1 1/4	6763-012-T	$645.00
1 1/2	6763-015-B	$645.00
1 1/2	6763-015-DS	$645.00
1 1/2	6763-015-S	$645.00
1 1/2	6763-015-T	$645.00
2	6763-020-B	$819.00
2	6763-020-DS	$819.00
2	6763-020-S	$819.00
2	6763-020-T	$819.00

All PVDF diaphragm valves have PVDF gas barrier as a standard feature.
PVDF gas barriers available for all material diaphragm valves with PTFE diaphragm.

Diaphragm Valves

PVC/CPVC/PP/PVDF



Type 514

Size (in.)	PVC/EPDM soc/thr Part #	Price $
1/2	0218-005-S	139.00
1/2	0218-005-T	135.00
3/4	0218-007-S	153.00
3/4	0218-007-T	157.00
1	0218-010-S	196.00
1	0218-010-T	197.00
1 1/4	0218-012-S	304.00
1 1/4	0218-012-T	328.00
1 1/2	0218-015-S	307.00
1 1/2	0218-015-T	332.00
2	0218-020-S	353.00
2	0218-020-T	371.00

GF Diaphragm Valves

FEATURES:

- Size: 1/2”-2” (larger sizes available in 314-319 series)
- Valve Assembly: Threaded connection without bolts
- Lower Body (wetted): PVC, CPVC, PP, Natural, PVDF, ABS
- Upper Body: Glass-filled polypropylene
- Diaphragm material (wetted): EPDM, FPM, PTFE with FPM backing, PTFE with EPDM backing, NBR
- Pressure: PVC 150 PSI (240 optional); CPVC, PP, ABS 150 PSI; PVDF 240 PSI
- Lockable Handle: PP GF30

Type 514

Size (in.)	PVC/PTFE soc/thr Part #	Price $
1/2	0219-005-S	227.00
1/2	0219-005-T	219.00
3/4	0219-007-S	241.00
3/4	0219-007-T	233.00
1	0219-010-S	352.00
1	0219-010-T	337.00
1 1/4	0219-012-S	480.00
1 1/4	0219-012-T	489.00
1 1/2	0219-015-S	480.00
1 1/2	0219-015-T	486.00
2	0219-020-S	587.00
2	0219-020-T	582.00

Size (in.)	PVDF/PTFE Soc Fusion Part #	Price $
1/2/20	0279-005	$375.00
3/4/25	0279-007	$409.00
1/32	0279-010	$466.00
1 1/4/40	0279-012	$642.00
1 1/2/50	0279-015	$776.00
2/63	0279-020	$1017.00

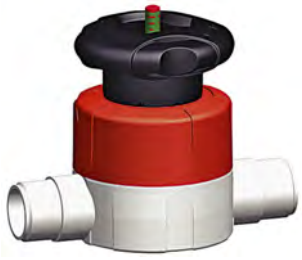
Size (in.)	CPVC/PTFE Socket Part #	Price
1/2	0221-005	$346.00
3/4	0221-007	$382.00
1	0221-010	$478.00
1 1/4	0221-012	$588.00
1 1/2	0221-015	$662.00
2	0221-020	$747.00

Size (in.) / mm	Beta PP/EPDM Soc Fusion Part #	Price
1/2/20	0291-005	$131.40
3/4/25	0291-007	$146.36
1/32	0291-010	$188.02
1 1/4/40	0291-012	$222.21
1 1/2/50	0291-015	$286.31
2/63	0291-020	$360.02

Size (in.)	CPVC/EPDM Socket Part #	Price
1/2	0220-005	$249.00
3/4	0220-007	$269.00
1	0220-010	$345.00
1 1/4	0220-012	$446.00
1 1/2	0220-015	$486.00
2	0220-020	$519.00

Size (in.) / mm	Beta PP/PTFE Soc Fusion Part #	Price
1/2/20	0278-005	$301.00
3/4/25	0278-007	$337.00
1/32	0278-010	$405.00
1 1/4/40	0278-012	$519.00
1 1/2/50	0278-015	$645.00
2/63	0278-020	$809.00

PP/PVDF

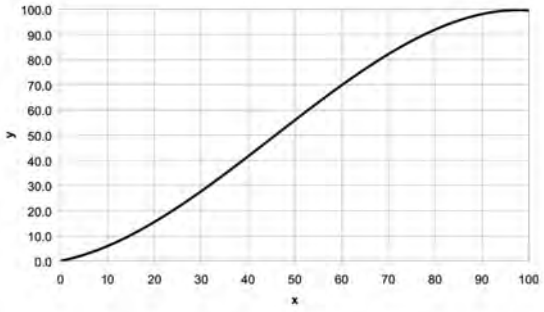


Type 515

Type 515 Diaphragm Valve PROGEF Standard PP Socket Fusion Spigot Metric*

d [mm]	EPDM Part #	Price	PTFE/EPDM Part #	Price	FPM Part #	Price	lbs
20	167 515 012	POA	167 515 032	POA	167 515 062	POA	0.657
25	167 515 013	POA	167 515 033	POA	167 515 063	POA	0.646
32	167 515 014	POA	167 515 034	POA	167 515 064	POA	2.092
40	167 515 015	POA	167 515 035	POA	167 515 065	POA	2.443
50	167 515 016	POA	167 515 036	POA	167 515 066	POA	4.535
63	167 515 017	POA	167 515 037	POA	167 515 067	POA	5.741

Flow Characteristics Type 514 / 515 / 517



X: Open angle (%), Y: Flow factor kv, cv (%)

Size (in.)	Cv 100 gal/min Δp = 1psi
1/2	9
3/4	19
1	33
1 1/4	52
1 1/2	87
2	119

Type 515 Diaphragm Valve SYGEF Standard PVDF Socket Fusion Spigot Metric*

d [mm]	PTFE/EPDM Part #	Price	lbs
20	185 515 032	POA	0.637
25	185 515 033	POA	0.939
32	185 515 034	POA	1.508
40	185 515 035	POA	3.120
50	185 515 036	POA	3.642
63	185 515 037	POA	5.664

NOTE: *NIS (Not in System)
Type 515 Diaphragm Valves are Not in System.
POA: Price On Application

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011419

Diaphragm Valves

PVC, CPVC, PP & PVDF Flanged Ends



(1/2"- 2") Type 517

GF Diaphragm Valves

FEATURES:

- Material: PVC. CPVC, PP, PVDF
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Handwheel with built-in locking mechanism
- Overall length EN 558
- Connecting dimension: ANSI/ASME B 16.5 class 150, ASTM D 4024, BS 1560, BS EN 1759
- Joining faces flat/serrated
- Self adjusting multifunctional module with integrated limit switches

PVC, CPVC, PP & PVDF Flanged Ends



(2 1/2"- 6") Type 317

4

Type 517 / 317

	Size (in.)	PVC/EPDM flanged Part #	Price $
517	1/2	0222-005	177.00
	3/4	0222-007	204.00
	1	0222-010	249.00
	1 1/4	0222-012	376.00
	1 1/2	0222-015	398.00
	2	0222-020	465.00
317	2 1/2	0222-025	673.00
	3	0222-030	891.00
	4	0222-040	1243.00
	6	0222-060	3190.00

	Size (in.)	PVC/PTFE flanged Part #	Price $
517	1/2	0223-005	309.00
	3/4	0223-007	339.00
	1	0223-010	436.00
	1 1/4	0223-012	554.00
	1 1/2	0223-015	558.00
	2	0223-020	692.00
317	2 1/2	0223-025	1040.00
	3	0223-030	1392.00
	4	0223-040	1961.00
	6	0223-060	5027.00

	Size (in.)	Beta PP/EPDM flanged Part #	Price $
517	1/2	0226-005	214.00
	3/4	0226-007	218.00
	1	0226-010	291.00
	1 1/4	0226-012	336.00
	1 1/2	0226-015	447.00
	2	0226-020	565.00
317	2 1/2	0226-025	645.00
	3	0226-030	955.00
	4	0226-040	1344.00
	6	0226-060	3829.00

	Size (in.)	Beta PP/PTFE flanged Part #	Price $
517	1/2	0227-005	364.00
	3/4	0227-007	424.00
	1	0227-010	508.00
	1 1/4	0227-012	651.00
	1 1/2	0227-015	799.00
	2	0227-020	1017.00
317	2 1/2	0227-025	1007.00
	3	0227-030	1405.00
	4	0227-040	1872.00
	6	0227-060	5697.00

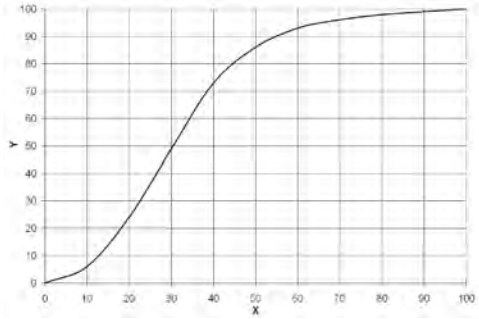
	Size (in.)	CPVC/EPDM flanged Part #	Price $
517	1/2	0224-005	291.00
	3/4	0224-007	324.00
	1	0224-010	402.00
	1 1/4	0224-012	515.00
	1 1/2	0224-015	521.00
	2	0224-020	584.00
317	2 1/2	0224-025	1071.00
	3	0224-030	1637.00
	4	0224-040	2190.00

	Size (in.)	CPVC/PTFE flanged Part #	Price $
517	1/2	0225-005	399.00
	3/4	0225-007	431.00
	1	0225-010	564.00
	1 1/4	0225-012	723.00
	1 1/2	0225-015	845.00
	2	0225-020	946.00
317	2 1/2	0225-025	1847.00
	3	0225-030	2501.00
	4	0225-040	3309.00

	Size (in.)	PVDF/PTFE flanged Part #	Price $
517	1/2	0228-005	448.00
	3/4	0228-007	496.00
	1	0228-010	571.00
	1 1/4	0228-012	768.00
	1 1/2	0228-015	928.00
	2	0228-020	1224.00
317	2 1/2	0228-025	2129.00
	3	0228-030	4028.00
	4	0228-040	6265.00
	6	0228-060	11018.00

Many other options are available.
For materials and replacement diaphragms not listed, please contact the Sales office.

Flow Characteristics Type 317



X: Open angle (%), Y: Flow factor kv, cv (%)

Size (in.)	Cv 100 gal/min Δp = 1psi
2 1/2	69.5
3	119.0
4	189.0
6	422.3

Diaphragm Valves

HAYWARD DAB Series Industrial Diaphragm Valves



Hayward all-plastic diaphragm valves are engineered to provide superior handling of difficult media such as corrosive fluids, abrasives and slurries. They can also be used for high purity and sanitary applications.

The valve controls flow by varying the space between a stationary weir and a moveable flexible diaphragm. By compressing the diaphragm against the weir, all flow is shut off. The only wetted components are the lower half of the valve body and the diaphragm. The diaphragm's stroke adjustment feature allows precise "tweaking" of diaphragm movement for very precise flow control. A large, sure-grip handwheel makes it easy to open or close the valve, and a beacon-type indicator provides highly visible position indication at the top of the valve's rising stem.

1/2" to 6" PVC 1/2" to 4" CPVC 1/2" to 10" PPL 1/2" to 8" PVDF

Features

- Position indicator
- Sure-Grip Handwheel
- Choice of EPDM, FPM, or PTFE diaphragms
- Rated to 150 PSI
- Flanged valves are available

Options

- Electric, Pneumatic actuation to 4"
- Over 4" Actuation, Consult Factory
- True Union End Connections
- PVDF Vapor Barrier

Note: CPVC - Corzan™

Size (in.)	PVC FPM/FPM soc/thr Part #	Price $
1/2	DAB1005UFF	$142.60
3/4	DAB1007UFF	$160.10
1	DAB1010UFF	$200.10
1 1/4	DAB1012UFF	$306.35
1 1/2	DAB1015UFF	$306.35
2	DAB1020UFF	$363.00

Size (in.)	PVC EPDM/EPDM soc/thr Part #	Price $
1/2	DAB1005UEE	$113.40
3/4	DAB1007UEE	$128.85
1	DAB1010UEE	$160.10
1 1/4	DAB1012UEE	$245.95
1 1/2	DAB1015UEE	$245.95
2	DAB1020UEE	$290.65

Size (in.)	PVC PTFE/FPM soc/thr Part #	Price $
1/2	DAB1005UPF	$216.70
3/4	DAB1007UPF	$230.15
1	DAB1010UPF	$312.20
1 1/4	DAB1012UPF	$454.75
1 1/2	DAB1015UPF	$470.95
2	DAB1020UPF	$559.10

Size (in.)	CPVC FPM/FPM soc/thr Part #	Price $
1/2	DAB2005UFF	$288.15
3/4	DAB2007UFF	$310.75
1	DAB2010UFF	$382.85
1 1/4	DAB2012UFF	$553.85
1 1/2	DAB2015UFF	$553.85
2	DAB2020UFF	$601.55

Size (in.)	CPVC EPDM/EPDM soc/thr Part #	Price $
1/2	DAB2005UEE	$220.70
3/4	DAB2007UEE	$265.60
1	DAB2010UEE	$292.50
1 1/4	DAB2012UEE	$469.50
1 1/2	DAB2015UEE	$469.50
2	DAB2020UEE	$541.45

Size (in.)	CPVC PTFE/FPM soc/thr Part #	Price $
1/2	DAB2005UPF	$327.50
3/4	DAB2007UPF	$348.40
1	DAB2010UPF	$417.40
1 1/4	DAB2012UPF	$657.25
1 1/2	DAB2015UPF	$663.05
2	DAB2020UPF	$688.35

Size (in.)	PPL FPM/FPM soc/thr Part #	Price $
1/2	DAB3005UFF	POA
3/4	DAB3007UFF	POA
1	DAB3010UFF	POA
1 1/4	DAB3012UFF	POA
1 1/2	DAB3015UFF	POA
2	DAB3020UFF	POA

Size (in.)	PPL EPDM/EPDM soc/thr Part #	Price $
1/2	DAB3005UEE	POA
3/4	DAB3007UEE	POA
1	DAB3010UEE	POA
1 1/4	DAB3012UEE	POA
1 1/2	DAB3015UEE	POA
2	DAB3020UEE	POA

Size (in.)	PPL PTFE/FPM soc/thr Part #	Price $
1/2	DAB3005UPF	POA
3/4	DAB3007UPF	POA
1	DAB3010UPF	POA
1 1/4	DAB3012UPF	POA
1 1/2	DAB3015UPF	POA
2	DAB3020UPF	POA

Size (in.)	PVDF PTFE/FPM soc/thr Part #	Price $
1/2	DAB5005UPF	POA
3/4	DAB5007UPF	POA
1	DAB5010UPF	POA
1 1/4	DAB5012UPF	POA
1 1/2	DAB5015UPF	POA
2	DAB5020UPF	POA

Size (in.)	PVDF/PPL PTFE/FPM soc/thr Part #	Price $
1/2	DAB6005UPF	POA
3/4	DAB6007UPF	POA
1	DAB6010UPF	POA
1 1/4	DAB6012UPF	POA
1 1/2	DAB6015UPF	POA
2	DAB6020UPF	POA

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Actuated Diaphragm Valves

HAYWARD Pneumatically Actuated Diaphragm Valves



Diaphragm valves are designed for flow control of liquids in pipelines from 1/2" to 2" in size. The compact, lightweight actuator provides internal working pressure to 150 PSI, and a position indicator provides a visual open or closed status of the valve. The all-plastic valve and actuator housing with not corrode or contaminate process fluid and require no special maintenance. Available modular design options allow the valve to be configured for application-specific requirements.

Features

- Visible Position indicator
- Double Stem Seals
- Actuators Air to Spring, Normally closed Standard
- FPM or EPDM Seals

Options

- Solenoids
- Limit switches
- Stroke limiters
- Manual override
- Air to Air Actuator

Actuator Specifications

- Air Pressure Minimum: 80 psi
- Air Pressure Maximum: 120 psi
- Air Port Connections: 1/4"
- Housing Material: Polyamid
- Seals: Nitrile

Size (in.)	PVC/FPM FPM soc/thr Part #	Price $
1/2	2500-005	$693.30
3/4	2500-007	$737.90
1	2500-010	$865.60
1 1/4	2500-012	$1172.15
1 1/2	2500-015	$1172.15
2	2500-020	$1560.65

Size (in.)	PVC/EPDM EPDM soc/thr Part #	Price $
1/2	2501-005	$664.10
3/4	2501-007	$706.65
1	2501-010	$825.60
1 1/4	2501-012	$1111.75
1 1/2	2501-015	$1111.75
2	2501-020	$1488.30

Size (in.)	PVC/PTFE FPM soc/thr Part #	Price $
1/2	2502-005	$767.40
3/4	2502-007	$807.95
1	2502-010	$977.70
1 1/4	2502-012	$1320.55
1 1/2	2502-015	$1336.75
2	2502-020	$1756.75

Size (in.)	CPVC/FPM FPM soc/thr Part #	Price $
1/2	2504-005	$838.85
3/4	2504-007	$888.55
1	2504-010	$1048.35
1 1/4	2504-012	$1419.35
1 1/2	2504-015	$1419.35
2	2504-020	$1799.20

Size (in.)	CPVC/EPDM EPDM soc/thr Part #	Price $
1/2	2505-005	$771.40
3/4	2505-007	$843.40
1	2505-010	$958.00
1 1/4	2505-012	$1335.00
1 1/2	2505-015	$1335.00
2	2505-020	$1739.10

Size (in.)	CPVC/PTFE FPM soc/thr Part #	Price $
1/2	2506-005	$878.20
3/4	2506-007	$926.20
1	2506-010	$1082.90
1 1/4	2506-012	$1523.05
1 1/2	2506-015	$1528.85
2	2506-020	$1886.00

Options:

Item	Part #	Price
Solenoid Valve	2527	$502.65

Actuated Diaphragm Valves

Asahi Pneumatically Actuated Diaphragm Valves

Type 14 Pneumatic Diaphragm



Features
- Corrosion resistant Body & bonnet
- Weir design for excellent throttling
- NAMUR pad mount for easy installation of solenoid valves
- Fully vacuum rated
- Bubble-tight sealing
- Bonnet seals to protect internals
- Adjustable travel stop to prevent diaphragm from being over-tightened
- Bayonet structure to connect compressor and diaphragm for quick maint.
- Integrally molded bottom stand for simple yet firm panel mounting
- Indicator at the top for valve position
- PVDF gas barrier, which protects EPDM backing cushion from gas permeation
- Low profile

Specifications
- Sizes: 1/2" - 2"
- Body Materials: PVC, CPVC, PP, PVDF
- Bonnet Materials: PPG
- End Connectors: PVC, CPVC, PP, PVDF
- Diaphragms: EPDM, PTFE
- Actuator Housing: PPG
- Type: Air to Air; Air-to-Spring
- Air Supply: 60 psi (Recommended)
  90 psi (Maximum)
- O-Ring End Connectors: EPDM

Options
- Solenoid valves in all NEMA ratings
- Limit switches
- Positioners
- Manual over-ride for Air-to-Spring

B = Butt Fusion
DS = Din socket
S = IPS socket
T = Threaded
F = Flanged

Air to Air

Size (in.)	PVC/PPG EPDM soc/thr/flanged Part #	Price $
1/2	6764-005-S	392.00
1/2	6764-005-T	392.00
1/2	6764-005-F	392.00
3/4	6764-007-S	415.00
3/4	6764-007-T	415.00
3/4	6764-007-F	415.00
1	6764-010-S	443.00
1	6764-010-T	443.00
1	6764-010-F	443.00
1 1/4	6764-012-S	556.00
1 1/4	6764-012-T	556.00
1 1/4	6764-012-F	556.00
1 1/2	6764-015-S	695.00
1 1/2	6764-015-T	695.00
1 1/2	6764-015-F	695.00
2	6764-020-S	848.00
2	6764-020-T	848.00
2	6764-020-F	848.00

Size (in.)	PVC/PPG PTFE soc/thr/flanged Part #	Price $
1/2	6765-005-S	501.00
1/2	6765-005-T	501.00
1/2	6765-005-F	501.00
3/4	6765-007-S	531.00
3/4	6765-007-T	531.00
3/4	6765-007-F	531.00
1	6765-010-S	567.00
1	6765-010-T	567.00
1	6765-010-F	567.00
1 1/4	6765-012-S	711.00
1 1/4	6765-012-T	711.00
1 1/4	6765-012-F	711.00
1 1/2	6765-015-S	889.00
1 1/2	6765-015-T	889.00
1 1/2	6765-015-F	889.00
2	6765-020-S	1086.00
2	6765-020-T	1086.00
2	6765-020-F	1086.00

Size (in.)	CPVC/PPG EPDM soc/thr/flanged Part #	Price $
1/2	6766-005-S	610.00
1/2	6766-005-T	610.00
1/2	6766-005-F	607.00
3/4	6766-007-S	636.00
3/4	6766-007-T	636.00
3/4	6766-007-F	630.00
1	6766-010-S	656.00
1	6766-010-T	656.00
1	6766-010-F	645.00
1 1/4	6766-012-S	673.00
1 1/4	6766-012-T	673.00
1 1/4	6766-012-F	659.00
1 1/2	6766-015-S	843.00
1 1/2	6766-015-T	843.00
1 1/2	6766-015-F	821.00
2	6766-020-S	897.00
2	6766-020-T	897.00
2	6766-020-F	898.00

Size (in.)	CPVC/PPG PTFE soc/thr/flanged Part #	Price $
1/2	6767-005-S	649.00
1/2	6767-005-T	649.00
1/2	6767-005-F	652.00
3/4	6767-007-S	683.00
3/4	6767-007-T	683.00
3/4	6767-007-F	673.00
1	6767-010-S	736.00
1	6767-010-T	736.00
1	6767-010-F	690.00
1 1/4	6767-012-S	859.00
1 1/4	6767-012-T	859.00
1 1/4	6767-012-F	806.00
1 1/2	6767-015-S	879.00
1 1/2	6767-015-T	879.00
1 1/2	6767-015-F	879.00
2	6767-020-S	962.00
2	6767-020-T	962.00
2	6767-020-F	1165.00

Size (in.)	PP/PPG EPDM Butt/soc/thr/flg Part #	Price $
1/2	6768-005-B	604.00
1/2	6768-005-DS	604.00
1/2	6768-005-S	604.00
1/2	6768-005-T	604.00
1/2	6768-005-F	601.00
3/4	6768-007-B	624.00
3/4	6768-007-DS	624.00
3/4	6768-007-S	624.00
3/4	6768-007-T	624.00
3/4	6768-007-F	615.00
1	6768-010-B	644.00
1	6768-010-DS	644.00
1	6768-010-S	644.00
1	6768-010-T	644.00
1	6768-010-F	627.00
1 1/4	6768-012-B	652.00
1 1/4	6768-012-DS	652.00
1 1/4	6768-012-S	652.00
1 1/4	6768-012-T	652.00
1 1/4	6768-012-F	635.00
1 1/2	6768-015-B	816.00
1 1/2	6768-015-DS	816.00
1 1/2	6768-015-S	816.00
1 1/2	6768-015-T	816.00
1 1/2	6768-015-F	791.00
2	6768-020-B	855.00
2	6768-020-DS	855.00
2	6768-020-S	855.00
2	6768-020-T	855.00
2	6768-020-F	846.00

Size (in.)	PP/PPG PTFE Butt/soc/thr/flg Part #	Price $
1/2	6769-005-B	640.00
1/2	6769-005-DS	640.00
1/2	6769-005-S	640.00
1/2	6769-005-T	640.00
1/2	6769-005-F	644.00
3/4	6769-007-B	671.00
3/4	6769-007-DS	671.00
3/4	6769-007-S	671.00
3/4	6769-007-T	671.00
3/4	6769-007-F	658.00
1	6769-010-B	723.00
1	6769-010-DS	723.00
1	6769-010-S	723.00
1	6769-010-T	723.00
1	6769-010-F	674.00
1 1/4	6769-012-B	870.00
1 1/4	6769-012-DS	870.00
1 1/4	6769-012-S	870.00
1 1/4	6769-012-T	870.00
1 1/4	6769-012-F	813.00
1 1/2	6769-015-B	875.00
1 1/2	6769-015-DS	875.00
1 1/2	6769-015-S	875.00
1 1/2	6769-015-T	875.00
1 1/2	6769-015-F	875.00
2	6769-020-B	921.00
2	6769-020-DS	921.00
2	6769-020-S	921.00
2	6769-020-T	921.00
2	6769-020-F	1101.00

Size (in.)	PVDF/PPG EPDM Butt/soc/thr/flg Part #	Price $
1/2	6770-005-B	630.00
1/2	6770-005-DS	630.00
1/2	6770-005-S	630.00
1/2	6770-005-T	630.00
1/2	6770-005-F	654.00
3/4	6770-007-B	659.00
3/4	6770-007-DS	659.00
3/4	6770-007-S	659.00
3/4	6770-007-T	659.00
3/4	6770-007-F	684.00
1	6770-010-B	665.00
1	6770-010-DS	665.00
1	6770-010-S	665.00
1	6770-010-T	665.00
1	6770-010-F	732.00
1 1/4	6770-012-B	821.00
1 1/4	6770-012-DS	821.00
1 1/4	6770-012-S	821.00
1 1/4	6770-012-T	821.00
1 1/4	6770-012-F	975.00
1 1/2	6770-015-B	908.00
1 1/2	6770-015-DS	908.00
1 1/2	6770-015-S	908.00
1 1/2	6770-015-T	908.00
1 1/2	6770-015-F	1038.00
2	6770-020-B	1227.00
2	6770-020-DS	1227.00
2	6770-020-S	1227.00
2	6770-020-T	1227.00
2	6770-020-F	1329.00

Size (in.)	PVDF/PPG PTFE Butt/soc/thr/flg Part #	Price $
1/2	6771-005-B	701.00
1/2	6771-005-DS	701.00
1/2	6771-005-S	701.00
1/2	6771-005-T	701.00
1/2	6771-005-F	724.00
3/4	6771-007-B	732.00
3/4	6771-007-DS	732.00
3/4	6771-007-S	732.00
3/4	6771-007-T	732.00
3/4	6771-007-F	760.00
1	6771-010-B	738.00
1	6771-010-DS	738.00
1	6771-010-S	738.00
1	6771-010-T	738.00
1	6771-010-F	816.00
1 1/4	6771-012-B	913.00
1 1/4	6771-012-DS	913.00
1 1/4	6771-012-S	913.00
1 1/4	6771-012-T	913.00
1 1/4	6771-012-F	1085.00
1 1/2	6771-015-B	1006.00
1 1/2	6771-015-DS	1006.00
1 1/2	6771-015-S	1006.00
1 1/2	6771-015-T	1006.00
1 1/2	6771-015-F	1154.00
2	6771-020-B	1363.00
2	6771-020-DS	1363.00
2	6771-020-S	1363.00
2	6771-020-T	1363.00
2	6771-020-F	1476.00

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 071718

Actuated Diaphragm Valves

Asahi Pneumatically Actuated Diaphragm Valves

Type 14 Pneumatic Diaphragm



Features
- Corrosion resistant Body & bonnet
- Weir design for excellent throttling
- NAMUR pad mount for easy installation of solenoid valves
- Fully vacuum rated
- Bubble-tight sealing
- Bonnet seals to protect internals
- Adjustable travel stop to prevent diaphragm from being over-tightened
- Bayonet structure to connect compressor and diaphragm for quick maint.
- Integrally molded bottom stand for simple yet firm panel mounting
- Indicator at the top for valve position
- PVDF gas barrier, which protects EPDM backing cushion from gas permeation
- Low profile

Specifications
- Sizes: 1/2" - 2"
- Body Materials: PVC, CPVC, PP, PVDF
- Bonnet Materials: PPG
- End Connectors: PVC, CPVC, PP, PVDF
- Diaphragms: EPDM, PTFE
- Actuator Housing: PPG
- Type: Air to Air; Air-to-Spring
- Air Supply: 60 psi (Recommended)
  90 psi (Maximum)
- O-Ring End Connectors: EPDM

Options
- Solenoid valves in all NEMA ratings
- Limit switches
- Positioners
- Manual over-ride for Air-to-Spring

B = Butt Fusion
DS = Din socket
S = IPS socket
T = Threaded
F = Flanged

Air to Spring (Supplied Failsafe closed, must specify for Failsafe open)

Size (in.)	PVC/PPG EPDM soc/thr/flanged Part #	Price $
1/2	6772-005-S	392.00
1/2	6772-005-T	392.00
1/2	6772-005-F	392.00
3/4	6772-007-S	415.00
3/4	6772-007-T	415.00
3/4	6772-007-F	415.00
1	6772-010-S	443.00
1	6772-010-T	443.00
1	6772-010-F	443.00
1 1/4	6772-012-S	556.00
1 1/4	6772-012-T	556.00
1 1/4	6772-012-F	556.00
1 1/2	6772-015-S	695.00
1 1/2	6772-015-T	695.00
1 1/2	6772-015-F	695.00
2	6772-020-S	848.00
2	6772-020-T	848.00
2	6772-020-F	848.00

Size (in.)	PVC/PPG PTFE soc/thr/flanged Part #	Price $
1/2	6773-005-S	501.00
1/2	6773-005-T	501.00
1/2	6773-005-F	501.00
3/4	6773-007-S	531.00
3/4	6773-007-T	531.00
3/4	6773-007-F	531.00
1	6773-010-S	567.00
1	6773-010-T	567.00
1	6773-010-F	567.00
1 1/4	6773-012-S	711.00
1 1/4	6773-012-T	711.00
1 1/4	6773-012-F	711.00
1 1/2	6773-015-S	889.00
1 1/2	6773-015-T	889.00
1 1/2	6773-015-F	889.00
2	6773-020-S	1086.00
2	6773-020-T	1086.00
2	6773-020-F	1086.00

Size (in.)	CPVC/PPG EPDM soc/thr/flanged Part #	Price $
1/2	6774-005-S	726.00
1/2	6774-005-T	726.00
1/2	6774-005-F	785.00
3/4	6774-007-S	775.00
3/4	6774-007-T	775.00
3/4	6774-007-F	821.00
1	6774-010-S	815.00
1	6774-010-T	815.00
1	6774-010-F	857.00
1 1/4	6774-012-S	980.00
1 1/4	6774-012-T	980.00
1 1/4	6774-012-F	1109.00
1 1/2	6774-015-S	1140.00
1 1/2	6774-015-T	1140.00
1 1/2	6774-015-F	1162.00
2	6774-020-S	1512.00
2	6774-020-T	1512.00
2	6774-020-F	1604.00

Size (in.)	CPVC/PPG PTFE soc/thr/flanged Part #	Price $
1/2	6775-005-S	843.00
1/2	6775-005-T	843.00
1/2	6775-005-F	971.00
3/4	6775-007-S	906.00
3/4	6775-007-T	906.00
3/4	6775-007-F	1006.00
1	6775-010-S	988.00
1	6775-010-T	988.00
1	6775-010-F	1047.00
1 1/4	6775-012-S	1179.00
1 1/4	6775-012-T	1179.00
1 1/4	6775-012-F	1391.00
1 1/2	6775-015-S	1308.00
1 1/2	6775-015-T	1308.00
1 1/2	6775-015-F	1447.00
2	6775-020-S	1823.00
2	6775-020-T	1823.00
2	6775-020-F	1986.00

Size (in.)	PP/PPG EPDM Butt/soc/thr/flg Part #	Price $
1/2	6776-005-B	719.00
1/2	6776-005-DS	719.00
1/2	6776-005-S	719.00
1/2	6776-005-T	719.00
1/2	6776-005-F	806.00
3/4	6776-007-B	761.00
3/4	6776-007-DS	761.00
3/4	6776-007-S	761.00
3/4	6776-007-T	761.00
3/4	6776-007-F	856.00
1	6776-010-B	798.00
1	6776-010-DS	798.00
1	6776-010-S	798.00
1	6776-010-T	798.00
1	6776-010-F	898.00
1 1/4	6776-012-B	950.00
1 1/4	6776-012-DS	950.00
1 1/4	6776-012-S	950.00
1 1/4	6776-012-T	950.00
1 1/4	6776-012-F	1145.00
1 1/2	6776-015-B	1102.00
1 1/2	6776-015-DS	1102.00
1 1/2	6776-015-S	1102.00
1 1/2	6776-015-T	1102.00
1 1/2	6776-015-F	1223.00
2	6776-020-B	1445.00
2	6776-020-DS	1445.00
2	6776-020-S	1445.00
2	6776-020-T	1445.00
2	6776-020-F	1649.00

Size (in.)	PP/PPG PTFE Butt/soc/thr/flg Part #	Price $
1/2	6777-005-B	834.00
1/2	6777-005-DS	834.00
1/2	6777-005-S	834.00
1/2	6777-005-T	834.00
1/2	6777-005-F	960.00
3/4	6777-007-B	889.00
3/4	6777-007-DS	889.00
3/4	6777-007-S	889.00
3/4	6777-007-T	889.00
3/4	6777-007-F	1009.00
1	6777-010-B	970.00
1	6777-010-DS	970.00
1	6777-010-S	970.00
1	6777-010-T	970.00
1	6777-010-F	1051.00
1 1/4	6777-012-B	1144.00
1 1/4	6777-012-DS	1144.00
1 1/4	6777-012-S	1144.00
1 1/4	6777-012-T	1144.00
1 1/4	6777-012-F	1377.00
1 1/2	6777-015-B	1268.00
1 1/2	6777-015-DS	1268.00
1 1/2	6777-015-S	1268.00
1 1/2	6777-015-T	1268.00
1 1/2	6777-015-F	1452.00
2	6777-020-B	1747.00
2	6777-020-DS	1747.00
2	6777-020-S	1747.00
2	6777-020-T	1747.00
2	6777-020-F	1951.00

Size (in.)	PVDF/PPG EPDM Butt/soc/thr/flg Part #	Price $
1/2	6778-005-B	940.00
1/2	6778-005-DS	940.00
1/2	6778-005-S	940.00
1/2	6778-005-T	940.00
1/2	6778-005-F	964.00
3/4	6778-007-B	985.00
3/4	6778-007-DS	985.00
3/4	6778-007-S	985.00
3/4	6778-007-T	985.00
3/4	6778-007-F	1013.00
1	6778-010-B	1041.00
1	6778-010-DS	1041.00
1	6778-010-S	1041.00
1	6778-010-T	1041.00
1	6778-010-F	1051.00
1 1/4	6778-012-B	1285.00
1 1/4	6778-012-DS	1285.00
1 1/4	6778-012-S	1285.00
1 1/4	6778-012-T	1285.00
1 1/4	6778-012-F	1524.00
1 1/2	6778-015-B	1452.00
1 1/2	6778-015-DS	1452.00
1 1/2	6778-015-S	1452.00
1 1/2	6778-015-T	1452.00
1 1/2	6778-015-F	1584.00
2	6778-020-B	2042.00
2	6778-020-DS	2042.00
2	6778-020-S	2042.00
2	6778-020-T	2042.00
2	6778-020-F	2144.00

Size (in.)	PVDF/PPG PTFE Butt/soc/thr/flg Part #	Price $
1/2	6779-005-B	1047.00
1/2	6779-005-DS	1047.00
1/2	6779-005-S	1047.00
1/2	6779-005-T	1047.00
1/2	6779-005-F	1070.00
3/4	6779-007-B	1095.00
3/4	6779-007-DS	1095.00
3/4	6779-007-S	1095.00
3/4	6779-007-T	1095.00
3/4	6779-007-F	1121.00
1	6779-010-B	1157.00
1	6779-010-DS	1157.00
1	6779-010-S	1157.00
1	6779-010-T	1157.00
1	6779-010-F	1167.00
1 1/4	6779-012-B	1470.00
1 1/4	6779-012-DS	1470.00
1 1/4	6779-012-S	1470.00
1 1/4	6779-012-T	1470.00
1 1/4	6779-012-F	1693.00
1 1/2	6779-015-B	1617.00
1 1/2	6779-015-DS	1617.00
1 1/2	6779-015-S	1617.00
1 1/2	6779-015-T	1617.00
1 1/2	6779-015-F	1763.00
2	6779-020-B	2272.00
2	6779-020-DS	2272.00
2	6779-020-S	2272.00
2	6779-020-T	2272.00
2	6779-020-F	2381.00

Actuated Diaphragm Valves

GF DIASTAR Ten Plus



The new pneumatic Diaphragm Valves of GF Piping Systems represent a revolution in terms of safety, efficiency and simplicity. Like the hand valves the new DIASTAR also has a central union nut. This connection is non-corrosive, temperature stable and high pressure rating up to 16 bar. Because of the doubled flow rate the energy expenditure can be reduced considerably. At the same time the flow characteristic is very linear and thus ideally suited for control applications. Features like rotatable air connections and pre-tensioned spring-kits facilitate installation and maintenance enormously. The accessory interface allows simple integration into facility automation.



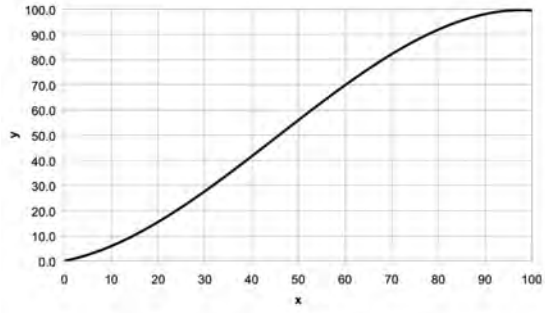
Model:
- For easy installation and removal
- Short overall length
- Double flow rate compared to predecessor
- One housing nut replaces four screws
- Rotating air connection at 90° intervals

Options:
- Pilot valves
- Stroke limiter / manual override
- Self adjusting electrical feedback
- AS-Interface
- Positioner
- Valve cluster with bus-communication

Advantages:
- Corrosion resistant and high pressure rating
- High efficiency due to doubled flow factor, linear valve characteristics
- Wide selection of material for best chemical resistance
- Linear control characteristic
- Suitable for slurries and abrasive media
- Easy integration of a wide range of accessories
- Rotatable air connection
- Safe and easy maintenance

4

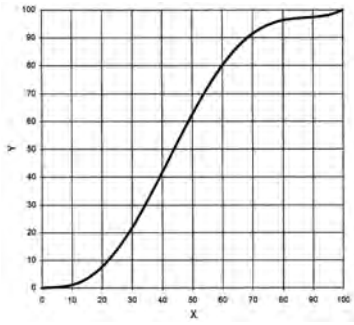
Flow Characteristics DIASTAR Ten Plus



Size (in.)	Cv 100 gal/min Δp = 1psi
1/2	9
3/4	19
1	33
1 1/4	52
1 1/2	87
2	119

X: Open angle (%), Y: Flow factor kv, cv (%)

Flow Characteristics DIASTAR Type 025



Size (in.)	Cv 100 gal/min Δp = 1psi
2 1/2	69.4
3	119
4	189
6	422

X: Open angle (%), Y: Flow factor kv, cv (%)

PVC / EPDM / Fail Safe To Close

Size (in.)	PN (bar)	SOCKET		Price $	THREADED	Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	161 684 612	0245-005-S	394.00	0245-005-T	394.00	161 687 612	0251-005	432.00
3/4	10/10*	161 684 613	0245-007-S	410.00	0245-007-T	410.00	161 687 613	0251-007	459.00
1	10/10*	161 684 614	0245-010-S	439.00	0245-010-T	439.00	161 687 614	0251-010	486.00
1 1/4	10/10*	161 684 615	0245-012-S	535.00	0245-012-T	535.00	161 687 615	0251-012	611.00
1 1/2	10/10*	161 684 616	0245-015-S	663.00	0245-015-T	663.00	161 687 616	0251-015	765.00
2	10/10*	161 684 617	0245-020-S	811.00	0245-020-T	811.00	161 687 617	0251-020	936.00
2 1/2	10	N/A	N/A	N/A	N/A	N/A	199 025 007	0251-025	1564.00
3	10	N/A	N/A	N/A	N/A	N/A	199 025 128	0251-030	2040.00
4	6	N/A	N/A	N/A	N/A	N/A	199 025 009	0251-040	2478.00
6	6	N/A	N/A	N/A	N/A	N/A	199 025 130	0251-060	5331.00

PVC / EPDM / Fail Safe To Open

Size (in.)	PN (bar)	SOCKET		Price $	THREADED	Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	161 644 612	0246-005-S	236.00	0246-005-T	236.00	161 647 612	0252-005	254.00
3/4	10/10*	161 644 613	0246-007-S	252.00	0246-007-T	252.00	161 647 613	0252-007	273.00
1	10/10*	161 644 614	0246-010-S	266.00	0246-010-T	266.00	161 647 614	0252-010	290.00
1 1/4	10/10*	161 644 615	0246-012-S	334.00	0246-012-T	334.00	161 647 615	0252-012	361.00
1 1/2	10/10*	161 644 616	0246-015-S	420.00	0246-015-T	420.00	161 647 616	0252-015	455.00
2	10/10*	161 644 617	0246-020-S	513.00	0246-020-T	513.00	161 647 617	0252-020	551.00
2 1/2	10	N/A	N/A	N/A	N/A	N/A	199 025 017	0252-025	1076.00
3	10	N/A	N/A	N/A	N/A	N/A	199 025 138	0252-030	1670.00
4	6	N/A	N/A	N/A	N/A	N/A	199 025 019	0252-040	2266.00
6	6	N/A	N/A	N/A	N/A	N/A	199 025 140	0252-060	5321.00

NOTE: With position indicator / Working pressure: one side. * PN: PTFE Working Pressure: both sides.

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GF DIASTAR Ten Plus

PVC / EPDM / Double Acting

Size (in.)	PN (bar)	SOCKET		Price $	THREADED	Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	161 654 612	0247-005-S	236.00	0247-005-T	236.00	161 657 612	0253-005	260.00
3/4	10/10*	161 654 613	0247-007-S	252.00	0247-007-T	252.00	161 657 613	0253-007	287.00
1	10/10*	161 654 614	0247-010-S	266.00	0247-010-T	266.00	161 657 614	0253-010	296.00
1 1/4	10/10*	161 654 615	0247-012-S	334.00	0247-012-T	334.00	161 657 615	0253-012	367.00
1 1/2	10/10*	161 654 616	0247-015-S	420.00	0247-015-T	420.00	161 657 616	0253-015	464.00
2	10/10*	161 654 617	0247-020-S	513.00	0247-020-T	513.00	161 657 617	0253-020	561.00
2 1/2	10	N/A	N/A	N/A	N/A	N/A	199 025 027	0253-025	1076.00
3	10	N/A	N/A	N/A	N/A	N/A	199 025 148	0253-030	1670.00
4	6	N/A	N/A	N/A	N/A	N/A	199 025 029	0253-040	2266.00
6	6	N/A	N/A	N/A	N/A	N/A	199 025 150	0253-060	5321.00

PVC / PTFE / Fail Safe To Close

Size (in.)	PN (bar)	SOCKET		Price $	THREADED	Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	161 684 632	0248-005-S	481.00	0248-005-T	481.00	161 687 632	0254-005	554.00
3/4	10/10*	161 684 633	0248-007-S	508.00	0248-007-T	508.00	161 687 633	0254-007	583.00
1	10/10*	161 684 634	0248-010-S	542.00	0248-010-T	542.00	161 687 634	0254-010	625.00
1 1/4	10/10*	161 684 635	0248-012-S	679.00	0248-012-T	679.00	161 687 635	0254-012	782.00
1 1/2	10/10*	161 684 636	0248-015-S	850.00	0248-015-T	850.00	161 687 636	0254-015	980.00
2	10/10*	161 684 637	0248-020-S	1040.00	0248-020-T	1040.00	161 687 637	0254-020	1195.00
2 1/2	10	N/A	N/A	N/A	N/A	N/A	199 025 037	0254-025	1772.00
3	10	N/A	N/A	N/A	N/A	N/A	199 025 158	0254-030	2458.00
4	6	N/A	N/A	N/A	N/A	N/A	199 025 039	0254-040	2830.00

PVC / PTFE / Fail Safe To Open

Size (in.)	PN (bar)	SOCKET		Price $	THREADED	Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	161 644 632	0249-005-S	298.00	0249-005-T	298.00	161 647 632	0255-005	343.00
3/4	10/10*	161 644 633	0249-007-S	317.00	0249-007-T	317.00	161 647 633	0255-007	367.00
1	10/10*	161 644 634	0249-010-S	339.00	0249-010-T	339.00	161 647 634	0255-010	388.00
1 1/4	10/10*	161 644 635	0249-012-S	425.00	0249-012-T	425.00	161 647 635	0255-012	488.00
1 1/2	10/10*	161 644 636	0249-015-S	536.00	0249-015-T	536.00	161 647 636	0255-015	612.00
2	10/10*	161 644 637	0249-020-S	643.00	0249-020-T	643.00	161 647 637	0255-020	740.00
2 1/2	10	N/A	N/A	N/A	N/A	N/A	199 025 047	0255-025	1329.00
3	10	N/A	N/A	N/A	N/A	N/A	199 025 168	0255-030	2052.00
4	6	N/A	N/A	N/A	N/A	N/A	199 025 049	0255-040	2526.00
6	6	N/A	N/A	N/A	N/A	N/A	199 025 170	0255-060	6386.00

PVC / PTFE / Double Acting

Size (in.)	PN (bar)	SOCKET		Price $	THREADED	Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	161 654 632	0250-005-S	298.00	0250-005-T	298.00	161 657 632	0256-005	367.00
3/4	10/10*	161 654 633	0250-007-S	317.00	0250-007-T	317.00	161 657 633	0256-007	397.00
1	10/10*	161 654 634	0250-010-S	339.00	0250-010-T	339.00	161 657 634	0256-010	419.00
1 1/4	10/10*	161 654 635	0250-012-S	425.00	0250-012-T	425.00	161 657 635	0256-012	520.00
1 1/2	10/10*	161 654 636	0250-015-S	536.00	0250-015-T	536.00	161 657 636	0256-015	660.00
2	10/10*	161 654 637	0250-020-S	643.00	0250-020-T	643.00	161 657 637	0256-020	797.00
2 1/2	10	N/A	N/A	N/A	N/A	N/A	199 025 057	0256-025	1329.00
3	10	N/A	N/A	N/A	N/A	N/A	199 025 178	0256-030	2052.00
4	6	N/A	N/A	N/A	N/A	N/A	199 025 059	0256-040	2526.00
6	6	N/A	N/A	N/A	N/A	N/A	199 025 180	0256-060	6386.00

NOTE: With position indicator / Working pressure: one side. * PN: PTFE Working Pressure: both sides.

Actuated Diaphragm Valves

GF DIASTAR Ten Plus

CPVC / EPDM / Fail Safe To Close

Size (in.)	PN (bar)	SOCKET		Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	163 684 612	0257-005	468.00	163 687 712	0263-005	500.00
3/4	10/10*	163 684 613	0257-007	492.00	163 687 713	0263-007	529.00
1	10/10*	163 684 614	0257-010	544.00	163 687 714	0263-010	584.00
1 1/4	10/10*	163 684 615	0257-012	680.00	163 687 715	0263-012	735.00
1 1/2	10/10*	163 684 616	0257-015	833.00	163 687 716	0263-015	900.00
2	10/10*	163 684 617	0257-020	1028.00	163 687 717	0263-020	1107.00
2 1/2	10	N/A	N/A	N/A	199 025 637	0263-025	1609.00
3	10	N/A	N/A	N/A	199 025 698	0263-030	2198.00
4	6	N/A	N/A	N/A	199 025 639	0263-040	2728.00

CPVC / EPDM / Fail Safe To Open

Size (in.)	PN (bar)	SOCKET		Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	163 644 612	0258-005	269.00	163 647 712	0264-005	301.00
3/4	10/10*	163 644 613	0258-007	287.00	163 647 713	0264-007	325.00
1	10/10*	163 644 614	0258-010	304.00	163 647 714	0264-010	345.00
1 1/4	10/10*	163 644 615	0258-012	382.00	163 647 715	0264-012	437.00
1 1/2	10/10*	163 644 616	0258-015	464.00	163 647 716	0264-015	528.00
2	10/10*	163 644 617	0258-020	561.00	163 647 717	0264-020	644.00
2 1/2	10	N/A	N/A	N/A	199 025 647	0264-025	1379.00
3	10	N/A	N/A	N/A	199 025 708	0264-030	1822.00
4	6	N/A	N/A	N/A	199 025 649	0264-040	2937.00

4

CPVC / EPDM / Double Acting

Size (in.)	PN (bar)	SOCKET		Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	163 654 612	0259-005	271.00	163 657 712	0265-005	303.00
3/4	10/10*	163 654 613	0259-007	293.00	163 657 713	0265-007	330.00
1	10/10*	163 654 614	0259-010	310.00	163 657 714	0265-010	352.00
1 1/4	10/10*	163 654 615	0259-012	386.00	163 657 715	0265-012	441.00
1 1/2	10/10*	163 654 616	0259-015	486.00	163 657 716	0265-015	552.00
2	10/10*	163 654 617	0259-020	588.00	163 657 717	0265-020	670.00
2 1/2	10	N/A	N/A	N/A	199 025 657	0265-025	1379.00
3	10	N/A	N/A	N/A	199 025 718	0265-030	1822.00
4	6	N/A	N/A	N/A	199 025 659	0265-040	2423.00

CPVC / PTFE / Fail Safe To Close

Size (in.)	PN (bar)	SOCKET		Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	163 684 632	0260-005	578.00	163 687 732	0266-005	610.00
3/4	10/10*	163 684 633	0260-007	608.00	163 687 733	0266-007	645.00
1	10/10*	163 684 634	0260-010	668.00	163 687 734	0266-010	709.00
1 1/4	10/10*	163 684 635	0260-012	835.00	163 687 735	0266-012	890.00
1 1/2	10/10*	163 684 636	0260-015	1026.00	163 687 736	0266-015	1092.00
2	10/10*	163 684 637	0260-020	1239.00	163 687 737	0266-020	1319.00
2 1/2	10	N/A	N/A	N/A	199 025 667	0266-025	1959.00
3	10	N/A	N/A	N/A	199 025 728	0266-030	2530.00
4	6	N/A	N/A	N/A	199 025 669	0266-040	3355.00

CPVC / PTFE / Fail Safe To Open

Size (in.)	PN (bar)	SOCKET		Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	163 644 632	0261-005	343.00	163 647 732	0267-005	375.00
3/4	10/10*	163 644 633	0261-007	367.00	163 647 733	0267-007	404.00
1	10/10*	163 644 634	0261-010	388.00	163 647 734	0267-010	428.00
1 1/4	10/10*	163 644 635	0261-012	488.00	163 647 735	0267-012	545.00
1 1/2	10/10*	163 644 636	0261-015	612.00	163 647 736	0267-015	678.00
2	10/10*	163 644 637	0261-020	740.00	163 647 737	0267-020	820.00
2 1/2	10	N/A	N/A	N/A	199 025 677	0267-025	1695.00
3	10	N/A	N/A	N/A	199 025 738	0267-030	2152.00
4	6	N/A	N/A	N/A	199 025 679	0267-040	3020.00

CPVC / PTFE / Double Acting

Size (in.)	PN (bar)	SOCKET		Price $	FLANGED		Price $
		Mfg Part #	ALSCO Part #		Mfg Part #	ALSCO Part #	
1/2	10/10*	163 654 632	0262-005	343.00	163 657 732	0268-005	375.00
3/4	10/10*	163 654 633	0262-007	367.00	163 657 733	0268-007	404.00
1	10/10*	163 654 634	0262-010	388.00	163 657 734	0268-010	428.00
1 1/4	10/10*	163 654 635	0262-012	488.00	163 657 735	0268-012	545.00
1 1/2	10/10*	163 654 636	0262-015	612.00	163 657 736	0268-015	678.00
2	10/10*	163 654 637	0262-020	740.00	163 657 737	0268-020	820.00
2 1/2	10	N/A	N/A	N/A	199 025 687	0268-025	1695.00
3	10	N/A	N/A	N/A	199 025 748	0268-030	2152.00
4	6	N/A	N/A	N/A	199 025 689	0268-040	2811.00

NOTE: With position indicator / Working pressure: one side. * PN: PTFE Working Pressure: both sides.

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Actuated Diaphragm Valves

GF DIASTAR Ten Plus

PP / EPDM / Fail Safe To Close

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	167 687 712	0269-005	518.00
3/4	10/10*	167 687 713	0269-007	567.00
1	10/10*	167 687 714	0269-010	613.00
1 1/4	10/10*	167 687 715	0269-012	773.00
1 1/2	10/10*	167 687 716	0269-015	961.00
2	10/10*	167 687 717	0269-020	1191.00
2 1/2	10	199 025 207	0269-025	1893.00
3	10	199 025 268	0269-030	2370.00
4	6	199 025 209	0269-040	2820.00
6	6	199 025 270	0269-060	6207.00

PP / EPDM / Fail Safe To Open

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	167 647 712	0270-005	336.00
3/4	10/10*	167 647 713	0270-007	379.00
1	10/10*	167 647 714	0270-010	410.00
1 1/4	10/10*	167 647 715	0270-012	521.00
1 1/2	10/10*	167 647 716	0270-015	642.00
2	10/10*	167 647 717	0270-020	797.00
2 1/2	10	199 025 217	0270-025	1204.00
3	10	199 025 278	0270-030	1799.00
4	6	199 025 219	0270-040	2402.00
6	6	199 025 280	0270-060	5674.00

PP / EPDM / Double Acting

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	167 657 712	0271-005	336.00
3/4	10/10*	167 657 713	0271-007	379.00
1	10/10*	167 657 714	0271-010	410.00
1 1/4	10/10*	167 657 715	0271-012	521.00
1 1/2	10/10*	167 657 716	0271-015	642.00
2	10/10*	167 657 717	0271-020	797.00
2 1/2	10	199 025 227	0271-025	1204.00
3	10	199 025 288	0271-030	1799.00
4	6	199 025 229	0271-040	2402.00
6	6	199 025 290	0271-060	5674.00

PP / PTFE / Fail Safe To Close

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	167 687 732	0272-005	653.00
3/4	10/10*	167 687 733	0272-007	717.00
1	10/10*	167 687 734	0272-010	768.00
1 1/4	10/10*	167 687 735	0272-012	972.00
1 1/2	10/10*	167 687 736	0272-015	1204.00
2	10/10*	167 687 737	0272-020	1488.00
2 1/2	10	199 025 237	0272-025	2309.00
3	10	199 025 298	0272-030	2891.00
4	6	199 025 239	0272-040	3440.00

PP / PTFE / Fail Safe To Open

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	167 647 732	0273-005	415.00
3/4	10/10*	167 647 733	0273-007	546.00
1	10/10*	167 647 734	0273-010	613.00
1 1/4	10/10*	167 647 735	0273-012	707.00
1 1/2	10/10*	167 647 736	0273-015	859.00
2	10/10*	167 647 737	0273-020	1178.00
2 1/2	10	199 025 247	0273-025	1441.00
3	10	199 025 308	0273-030	2163.00
4	6	199 025 249	0273-040	2883.00
6	6	199 025 310	0273-060	6810.00

PP / PTFE / Double Acting

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	167 657 732	0274-005	415.00
3/4	10/10*	167 657 733	0274-007	546.00
1	10/10*	167 657 734	0274-010	613.00
1 1/4	10/10*	167 657 735	0274-012	707.00
1 1/2	10/10*	167 657 736	0274-015	859.00
2	10/10*	167 657 737	0274-020	1178.00
2 1/2	10	199 025 257	0274-025	1441.00
3	10	199 025 318	0274-030	2163.00
4	6	199 025 259	0274-040	2883.00
6	6	199 025 320	0274-060	6810.00

PVDF / PTFE / Fail Safe To Close

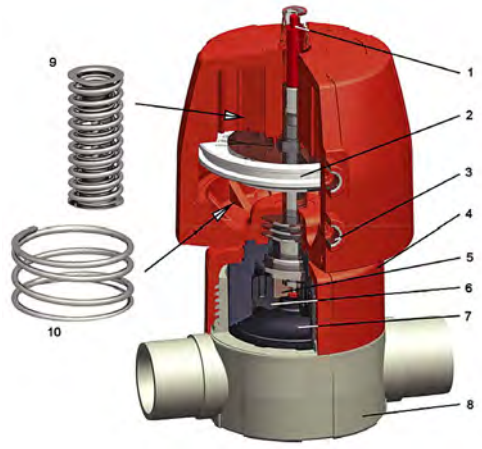
Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	185 687 732	0275-005	1017.00
3/4	10/10*	185 687 733	0275-007	1107.00
1	10/10*	185 687 734	0275-010	1157.00
1 1/4	10/10*	185 687 735	0275-012	1248.00
1 1/2	10/10*	185 687 736	0275-015	1517.00
2	10/10*	185 687 737	0275-020	1773.00
2 1/2	10	199 025 327	0275-025	3268.00
3	10	199 025 358	0275-030	4261.00
4	6	199 025 329	0275-040	5482.00

PVDF / PTFE / Fail Safe To Open

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	185 647 732	0276-005	877.00
3/4	10/10*	185 647 733	0276-007	969.00
1	10/10*	185 647 734	0276-010	1020.00
1 1/4	10/10*	185 647 735	0276-012	1121.00
1 1/2	10/10*	185 647 736	0276-015	1362.00
2	10/10*	185 647 737	0276-020	1749.00
2 1/2	10	199 025 337	0276-025	2614.00
3	10	199 025 368	0276-030	3499.00
4	6	199 025 339	0276-040	4390.00
6	6	199 025 370	0276-060	8482.00

PVDF / PTFE / Double Acting

Size (in.)	PN (bar)	FLANGED		Price $
		Mfg Part #	ALSCO Part #	
1/2	10/10*	185 657 732	0277-005	834.00
3/4	10/10*	185 657 733	0277-007	923.00
1	10/10*	185 657 734	0277-010	972.00
1 1/4	10/10*	185 657 735	0277-012	1066.00
1 1/2	10/10*	185 657 736	0277-015	1297.00
2	10/10*	185 657 737	0277-020	1667.00
2 1/2	10	199 025 347	0277-025	2614.00
3	10	199 025 378	0277-030	3499.00
4	6	199 025 349	0277-040	4390.00
6	6	199 025 380	0277-060	8482.00



GF DIASTAR Design

1	Optical position indicator	6	Compressor
2	Piston	7	Diaphragm
3	Air connections	8	Valve body
4	All-plastic housing	9	Pre-loaded spring sets for FC-mode
5	Diaphragm holder	10	Spring for FO-mode

NOTE: With position indicator / Working pressure: one side. * PN: PTFE Working Pressure: both sides.

Gate Valves

Asahi Flanged Gate Valves



Features:
- Corrosion-resistant, PVC body, PP plug & EPDM seals
- Light weight for easier and economical installation
- Straight through flow with minimal pressure drop
- No metal in contact with media
- Non-rising stem
- ANSI face-to-face dimensions
- Visual position indicator
- Clean-out plug in bottom area of valve body in models with PP gate
- Positive bubble-tight shut off
- Rated for full vacuum service

Options:
- 2" square operating nut
- Stem extensions
- Locking handles
- Electric actuation up to 3"
- FKM Seals

Caution: Never remove valve from pipeline under pressure. Always wear protective gloves and goggles.

Size (in.)	PVC/EPDM flanged Part #	Price $
1 1/2	1251-015	$404.00
2	1251-020	$416.00
3	1251-030	$613.00
4	1251-040	$855.00
5	1251-050	$1328.00
6	1251-060	$1690.00
8	1251-080	$2556.00
10	1251-100	$3680.00
12	1251-120	$4267.00
14	1251-140	$4658.00

Size (in.)	PVC/FKM flanged Part #	Price $
1 1/2	1242-015	$489.00
2	1242-020	$512.00
3	1242-030	$746.00
4	1242-040	$1052.00
5	1242-050	$1600.00
6	1242-060	$2095.00
8	1242-080	$2996.00
10	1242-100	$4190.00
12	1242-120	$4826.00
14	1242-140	$5315.00

4

Spears® Gate Valves PVC / CPVC (Heavy Duty)



1/2 - 2" style



2 1/2 - 3" style



4" style

Features:
- PVC or CPVC
- Straight through flow
- Pressure rating @ 73°F, Water
  1/2" - 2" - 200 psi max.
  2 1/2" - 3" - 150 psi max.
  4" - 235 psi max.
  Flanged - 150 psi max.
- Maximum service temperature
  PVC - 140°F
  CPVC - 200°F

CPVC Gate Valves are also available. Please contact our Sales Office for further information.

Size (in.)	PVC/Buna-N soc./thr. Part #	Price $
1/2	6950-005-S	26.80
1/2	6950-005-T	26.80
3/4	6950-007-S	32.78
3/4	6950-007-T	32.78
1	6950-010-S	38.85
1	6950-010-T	38.85
1 1/4	6950-012-S	53.72
1 1/4	6950-012-T	53.72
1 1/2	6950-015-S	68.55
1 1/2	6950-015-T	68.55
2	6950-020-S	88.03
2	6950-020-T	88.03
2 1/2	6950-025-S	486.73
2 1/2	6950-025-T	486.73
3	6950-030-S	486.73
3	6950-030-T	486.73
4	6950-040-S	955.17
4	6950-040-T	955.17

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
1/2	6951-005-S	29.42
1/2	6951-005-T	29.42
3/4	6951-007-S	36.07
3/4	6951-007-T	36.07
1	6951-010-S	42.78
1	6951-010-T	42.78
1 1/4	6951-012-S	59.12
1 1/4	6951-012-T	59.12
1 1/2	6951-015-S	76.16
1 1/2	6951-015-T	76.16
2	6951-020-S	96.92
2	6951-020-T	96.92
2 1/2	6951-025-S	535.39
2 1/2	6951-025-T	535.39
3	6951-030-S	535.39
3	6951-030-T	535.39
4	6951-040-S	1061.31
4	6951-040-T	1061.31

Size (in.)	PVC/Fpm® soc./thr. Part #	Price $
1/2	6952-005-S	32.40
1/2	6952-005-T	32.40
3/4	6952-007-S	37.97
3/4	6952-007-T	37.97
1	6952-010-S	47.11
1	6952-010-T	47.11
1 1/4	6952-012-S	64.99
1 1/4	6952-012-T	64.99
1 1/2	6952-015-S	82.93
1 1/2	6952-015-T	82.93
2	6952-020-S	106.55
2	6952-020-T	106.55
2 1/2	6952-025-S	588.96
2 1/2	6952-025-T	588.96
3	6952-030-S	588.96
3	6952-030-T	588.96
4	6952-040-S	1167.40
4	6952-040-T	1167.40

Size (in.)	PVC/Buna-N flanged Part #	Price $
1/2	6953-005	129.78
3/4	6953-007	146.03
1	6953-010	160.36
1 1/4	6953-012	180.62
1 1/2	6953-015	210.82
2	6953-020	271.37
2 1/2	6953-025	608.39
3	6953-030	608.39
4	6953-040	1197.54

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	6954-005	147.17
3/4	6954-007	165.25
1	6954-010	181.14
1 1/4	6954-012	207.37
1 1/2	6954-015	240.65
2	6954-020	285.12
2 1/2	6954-025	814.59
3	6954-030	814.59
4	6954-040	1330.67

Size (in.)	PVC/Fpm® flanged Part #	Price $
1/2	6955-005	168.67
3/4	6955-007	188.55
1	6955-010	208.04
1 1/4	6955-012	246.11
1 1/2	6955-015	282.73
2	6955-020	305.23
2 1/2	6955-025	896.03
3	6955-030	896.03
4	6955-040	1463.74

Waterway Clear PVC Gate Valves



Features:
- Adjustable flow control
- Easy to adjust in tight places
- Requires less overhead space to turn on/off compared to slice valve
- 100% shut off
- No metal parts in contact with the water for a non-corrosive gate valve
- Waterway manufactures all TruSeal Gate Valves in the U.S.A.

Clear PVC Gate Valve - Socket

Size (in.)	Mfg Part #	Price $
2	600-2370	21.64
3	600-2340	27.81

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011619

Globe Valves

ASAHI Globe Valves



Features

- Sizes: 1/2" - 4" in PVC and PP
- Seals: EPDM or FKM
- Plug: PP
- Used for efficient throttling of flow
- Positive shut-off
- Displays excellent flow regulating characteristics throughout the entire lift of the disc
- All sizes rated for full vacuum service
- EPDM seals. Other elastomers optional

Nominal Size		PVC			CPVC		
Inches	mm	30°F 70°F	71°F 105°F	106°F 120°F	-5°F 70°F	71°F 120°F	121°F 175°F
1/2 - 1 1/2	15-40	150	150	110	110	95	65
2	50	150	150	95	110	75	45
2 1/2- 3	65-80	110	110	95	110	60	35
4	100	110	80	65	110	60	35

Size (in.)	PVC/EPDM socket Part #	Price $
1/2	1260-005	$54.00
3/4	1260-007	$57.00
1	1260-010	$96.00
1 1/4	1260-012	$135.00
1 1/2	1260-015	$272.00
2	1260-020	$415.00

Size (in.)	PVC/FKM socket Part #	Price $
1/2	1280-005	$115.00
3/4	1280-007	$121.00
1	1280-010	$169.00
1 1/4	1280-012	$226.00
1 1/2	1280-015	$417.00
2	1280-020	$563.00

Size (in.)	PP/EPDM DIN socket Part #	Price $
1/2	1264-005	$77.00
3/4	1264-007	$86.00
1	1264-010	$144.00

Size (in.)	PP/FKM DIN socket Part #	Price $
1/2	1287-005	$139.00
3/4	1287-007	$144.00
1	1287-010	$215.00

Size (in.)	PVC/EPDM threaded Part #	Price $
1/2	1261-005	$54.00
3/4	1261-007	$57.00
1	1261-010	$96.00
1 1/4	1261-012	$135.00
1 1/2	1261-015	$272.00
2	1261-020	$415.00

Size (in.)	PVC/FKM threaded Part #	Price $
1/2	1281-005	$115.00
3/4	1281-007	$121.00
1	1281-010	$169.00
1 1/4	1281-012	$226.00
1 1/2	1281-015	$417.00
2	1281-020	$563.00

Size (in.)	PP/EPDM IPS socket Part #	Price $
1/2	1267-005	$77.00
3/4	1267-007	$86.00
1	1267-010	$144.00

Size (in.)	PP/FKM IPS socket Part #	Price $
1/2	1286-005	$139.00
3/4	1286-007	$144.00
1	1286-010	$215.00

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	1262-005	$77.00
3/4	1262-007	$91.00
1	1262-010	$141.00
1 1/4	1262-012	$194.00
1 1/2	1262-015	$332.00
2	1262-020	$472.00
2 1/2	1262-025	$736.00
3	1262-030	$861.00
4	1262-040	$1116.00

Size (in.)	PVC/FKM flanged Part #	Price $
1/2	1282-005	$141.00
3/4	1282-007	$155.00
1	1282-010	$216.00
1 1/4	1282-012	$291.00
1 1/2	1282-015	$488.00
2	1282-020	$638.00
2 1/2	1282-025	$1152.00
3	1282-030	$1312.00
4	1282-040	$1696.00

Size (in.)	PP/EPDM threaded Part #	Price $
1/2	1265-005	$77.00
3/4	1265-007	$86.00
1	1265-010	$144.00

Size (in.)	PP/FKM threaded Part #	Price $
1/2	1288-005	$139.00
3/4	1288-007	$144.00
1	1288-010	$215.00

Size (in.)	PP/EPDM flanged Part #	Price $
1/2	1266-005	$110.00
3/4	1266-007	$121.00
1	1266-010	$198.00
1 1/2	1266-015	$514.00
2	1266-020	$691.00
2 1/2	1266-025	$1064.00
3	1266-030	$1207.00
4	1266-040	$1641.00

Size (in.)	PP/FKM flanged Part #	Price $
1/2	1289-005	$170.00
3/4	1289-007	$185.00
1	1289-010	$269.00
1 1/2	1289-015	$654.00
2	1289-020	$845.00
2 1/2	1289-025	$1464.00
3	1289-030	$1641.00
4	1289-040	$2192.00

All prices subject to change without notice.

Constant Flow Valves

ASAHI Constant Flow Valve



Features:

- Body and bonnet are of solid PVC
- All wetted parts are of thermoplastic and elastomeric materials for superior corrosion resistance
- Vertical or horizontal installations
- Flow rate accuracy: +/- 6% of full scale flow rate (water at ambient temp.)
- Flow rate rangeability: 20:1 maximum
- Hand wheel serves as a mechanism by which the flow rate setting may be adjusted without shutting down the pipeline
- Springs of SS 304 with ETFE coating tested for long cycle life
- Prescribed flow setting is clearly visible on the indicator at the top

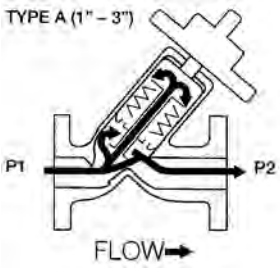
Specifications:

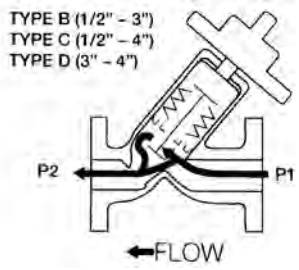
Sizes: PVC: 1/2"-4" CPVC: 1" and 2"
Ends: Flanged ANSI
Seals: EPDM
Springs: SS 304 with ETFE Coating
Working Temperature:
PVC: 30° - 120° F
CPVC: 30° - 160° F
(CPVC, special order Only)

Size	Part #	Part #	Part #	Part #	Price	Type
1/2"	-	4320-B	4320-C	-	713.00	B,C
3/4"	-	4321-B	4321-C	-	806.00	B,C
1"	4322-A	4322-B	4322-C	-	952.00	A,B,C
2"	4323-A	4323-B	4323-C	-	1687.00	A,B,C
3"	4324-A	4324-B	4324-C	4324-D	2874.00	A,B,C,D
4"	-	-	4325-C	4325-D	4404.00	C,D

Note: Data Sheet must be completed to verify process conditions before an order is processed.

Type	Sizes (in)	Characteristics
A	1, 2, 3	Fluids flows thru the valve
B	1/2, 3/4, 1, 2, 3	Flow rate setting range is large (small to large flow rate)
C	1/2, 3/4, 1, 2, 3, 4	Lines with large pressure differentials (upstream vs. downstream)
D	3, 4	High flow rate





Preset Flow Rates

(and working differential pressure)

Nominal Size Inches	Type	Flow Rate Gal./Min.	Rangeability	Working Differential PSI
1/2	B	0.176 - 3.52	20:1	2.85 - 14.22
	C	0.35 - 3.52	10:1	4.27 - 28.45
3/4	B	0.26 - 5.28	20:1	2.85 - 14.22
	C	0.53 - 5.28	10:1	4.27 - 28.45
1	A	2.20 - 8.81	4:1	2.85 - 14.22
	B	0.441 - 8.81	20:1	2.85 - 14.22
	C	0.881 - 8.81	10:1	4.27 - 28.45
2	A	8.81 - 35.22	4:1	2.85 - 14.22
	B	1.76 - 35.22	20:1	2.85 - 14.22
	C	3.52 - 35.22	10:1	4.27 - 28.45
3	A	22.02 - 88.07	4:1	4.85 - 14.22
	B	4.403 - 88.07	20:1	2.85 - 14.22
	C	8.81 - 88.07	10:1	4.27 - 28.45
	D	66.04 - 132.10	2:1	4.27 - 21.33
4	C	44.03 - 264.20	6:1	4.27 - 28.45
	D	132.10-264.20	2:1	2.85 - 21.33

Principles of Operation

1. When the upstream fluid pressure, P1, is introduced at the flow control orifice, it exerts a responding pressure on the upper surface of the flange on the piston type valve plug.
2. Likewise, the downstream pressure, P2, exerts a corresponding pressure to the lower surface of the valve plug flange.
3. Thus, when a differential exists between the fluid upstream and downstream of the orifice, the corresponding differential pressure acting on the surfaces of the flange moves the valve plug piston either downward against the force of the spring cartridge or upward by the force of the spring, depending upon the direction of the force induced by the existing differential pressure.
4. This upward or downward movement of the valve plug piston causes the flow orifice to be widened or narrowed accordingly, thus the flow rate of the fluid passing across the orifice is automatically adjusted. The reverse is also true when the differential pressure decreases, piston moves upward increasing the orifice opening area and allowing the fluid flow rate to increase to the preset value.

Note: The piston for Type B, C and D does not have inlet fluid passage. The differential pressure, (P1 - P2), exerts directly on the plug surface.

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ALSCO™ Shutoff and FDA Union Valves

Plast-O-Matic® Air Actuated Pinch Valves - Series HSA



Air-operated valves “pinch” sleeve to shut off flow; ideal when slurries or particulate might prevent bubble-tight closure in a regular seat and seal design. HSA is an inline design that closes a Patent Pending articulated sleeve molded of EPDMh2, 1/2" to 1" connections of PVC, CPVC, natural polypro or PVDF.

Features:
- Breakthrough variable thickness sleeve design eliminates twisting and tearing of the pinch element.
- EPDM Sleeve tested to over 1,000,000 cycles in laboratory conditions.
- Sleeve design is ideal for slurries, chemicals, and high purity applications.
- High flow rate and bubble tight shutoff: A high-performance, clean and affordable alternative to air-operated diaphragm valve and ball valves.
- True union connections for easy installation and maintenance.
- No metal parts; safe for corrosive environments.

PVC / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-PV	HSA050EP2S-PV	234.00
3/4	HSA075EP2T-PV	HSA075EP2S-PV	279.00
1	HSA100EP2T-PV	HSA100EP2S-PV	333.00

CPVC / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-CP	HSA050EP2S-CP	291.00
3/4	HSA075EP2T-CP	HSA075EP2S-CP	351.00
1	HSA100EP2T-CP	HSA100EP2S-CP	411.00

PP / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-PP	HSA050EP2S-PP	272.00
3/4	HSA075EP2T-PP	HSA075EP2S-PP	324.00
1	HSA100EP2T-PP	HSA100EP2S-PP	356.00

PVDF / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-PF	HSA050EP2S-PF	381.00
3/4	HSA075EP2T-PF	HSA075EP2S-PF	442.00
1	HSA100EP2T-PF	HSA100EP2S-PF	665.00

4

Banjo PP Air Actuated Shutoff Valves



Features:
- The polypropylene air actuated valve is normally an open valve, and has a maximum liquid pressure of 70 PSI.
- The pressure differential (pressure it takes to close valve) of the valve is 15 to 20 PSI.

Description	Pipe Size (in.)	Mfg Part #	Price $
3/4” x 3/4” PP Pinch Valve - EPDM	3/4	PV075	66.38
3/4” PP Pinch Valve - FKM	3/4	PV075V	118.75
1” x 1” PP Pinch Valve - EPDM	1	PV100	66.38
1” x 1” PP Pinch Valve - FKM	1	PV100V	118.75
1” x 3/4” PP Pinch Valve - EPDM	1 x 3/4	PV100-075	66.38
1” x 3/4” PP Pinch Valve - FKM	1 x 3/4	PV100-075V	118.75
1” x 3/4” PP Pinch Valve Female Coupler - EPDM	1 x 3/4	PV100-075B	85.58
1” x 3/4” PP Pinch Valve Female Coupler - FKM	1 x 3/4	PV100-075BV	109.92

Banjo PP Check Valves



Features:
- One piece Construction.
- Flanged Connections.
- 150 PSI Maximum.
- 1-2 PSI Spring.
- Glass Reinforced Polypropylene.
- 316 Stainless Steel Springs.
- EPDM Gasket (FKM Optional).

Description	Flow (in.)	Mfg Part #	Price $
1” Flanged Poly Check Valve	1	MCV100	17.50
2” Flanged Poly Check Valve	1 1/2	MCV200	22.64
2” Full Port Flanged Poly Check Valve	2	MCV221	25.20
3” Flanged Poly Check Valve	3	MCV300	36.35



Features:
- One piece Construction.
- Glass Reinforced Polypropylene.
- 316 Stainless Steel Springs.
- EPDM Gasket.

Description	Pipe Size (in.)	Mfg Part #	Price $
1/2” Check Valve	1/2	CV050	14.40
1” Male x Female NPT	1	CV100MT	15.16
1” Check Valve	1	CV100	18.19
2” Full Port Check Valve	2	CV221	25.20
3” Full Port Check Valve	3	CV300	37.11

Banjo FDA Union Valves



UV204FPFD



NIP2101



MBP200

Features:
- Precision molded in glass reinforced polypropylene, for strength and chemical resistance.
- PTFE seats for smooth operation and proper sealing characteristics.
- Double EPDM O-rings in stem area for extra sealing protection.
- Interlocking body and end plate to allow easy thread connection when installing valves.
- Maximum operating pressure 100 P.S.I. at 70°F.

Union Valve and Adapters

Description	Mfg Part #	Price $
2” FDA Union Valve-EPDM	UV204FPFD	69.85
2” Buttress x 2” NPT Assembly-White	MBP200	10.49
2” NPT x BSP Nipple-White	NIP2101	18.08

Needle & Stopcock Valves



Hayward Needle Valves

Features
- PVC or PPL construction
- 1/4", 3/8", and 1/2" sizes with FPM seals and a PTFE seat.
- Molded fine pitch threaded stem
- Flow control from full open to drops per minute.
- 150 psi @ 70°F, non shock
- No tools required to adjust valve
- Integrally molded panel mounting lugs

Size (in.)	PVC/FPM threaded Part #	Price $
1/4	4001-002	$77.90
3/8	4001-003	$89.95
1/2	4001-005	$89.95

Size (in.)	PP/FPM threaded Part #	Price $
1/4	4002-002	$95.30
3/8	4002-003	$111.80
1/2	4002-005	$111.80

Max. Flow	
Size	gpm
1/4"	5.0
3/8"	7.5
1/2"	8.0

Marquest Needle Valves (Angle & Globe)



Globe Pattern



Angle Body

Features
- PVC, CPVC, PP, or PVDF
- 1/4", 3/8", and 1/2" FNPT sizes
- Engineered for industrial applications
- High purity, broad chemical resistance
- Versatile and simple panel mount
- PTFE sealed, protected, adjusting thd
- No elastomers
- 200 psi continuous service at 73°F
- Precise metering control inherent in needle valve design.

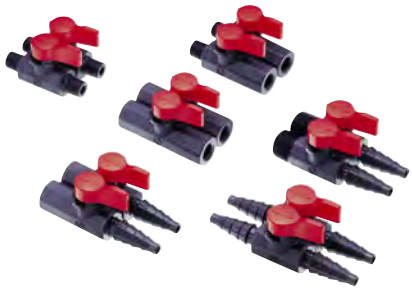
Size (in.)	PVC threaded Part #	Price $
1/4	4003-002-A	45.00
1/4	4003-002-G	45.10
3/8	4003-003-A	45.00
3/8	4003-003-G	45.10
1/2	4003-005-A	51.00
1/2	4003-005-G	51.00

Size (in.)	CPVC threaded Part #	Price $
1/4	4004-002-A	48.80
1/4	4004-002-G	48.80
3/8	4004-003-A	48.80
3/8	4004-003-G	48.80
1/2	4004-005-A	52.80
1/2	4004-005-G	52.80

Size (in.)	PP threaded Part #	Price $
1/4	4005-002-A	49.70
1/4	4005-002-G	49.70
3/8	4005-003-A	49.70
3/8	4005-003-G	49.70
1/2	4005-005-A	53.60
1/2	4005-005-G	53.60

Size (in.)	PVDF threaded Part #	Price $
1/4	4006-002-A	127.00
1/4	4006-002-G	127.00
3/8	4006-003-A	127.00
3/8	4006-003-G	127.00
1/2	4006-005-A	127.00
1/2	4006-005-G	127.00

ASAHI Labcock® Valves (Stopcock)



Features:
- PVC, 1/4", EPDM Seats and Seals
- Rated at 150 psi at 120°F (water)
- Precise fingertip control
- Calibrated flow indicator
- Unibody construction, sturdy stem
- Full vacuum rated, 29.9" Hg
- 90° turn operation with lever handle
- Cv= 106
- Optional PTFE seats & stem O-ring

Description	Part #	Price
Hose x Hose	3981	$20.46
MT x Hose	3982	$20.46
FT x Hose	3983	$20.46
MT x MT	3984	$20.46
FT x FT	3985	$20.46
FT x MT	3986	$20.46
MT x Elbow	3987	$20.46

Hayward Universal Stopcocks™ Kit



Features:
- PVC, No Rust, No Corrosion
- Size 1/4"
- EPDM Seats and Seals
- Rated at 150 psi at 70°F
- Ideal for Labs & Sampling
- Six Different End Connections
- Hex Wrench Included
- Valve body has graduation marks at 0°, 45°, & 90° for adjustments

Description	Part #	Price
StopCock Kit	4007	$26.55

All end connections supplied with each valve.
FPT x FPT, FPT x MPT
FPT x Hose, MPT x MPT
MPT x Hose, Hose x Hose
(Hex Wrench Included)

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Ball Valves & Faucets

Plastic Ball Valve

Features:
- PVC or glass filled PPL and Nylon
- 1/8",1/4", 3/8", and 1/2" sizes with Fpm or Ethylene propylene seals
- Buna-N seals standard
- Lever or round handle available
- Opening ID 5/16"
- Approx. (C.V.) 2
- Mix or match end combinations
- 125 psi, max. operating temp.140°F



Size (in.)	FN/Buna-N FPT x FPT Part #	Price $
1/8	0034-001-FN	12.48
1/4	0034-002-FN	12.48

Size (in.)	PVC/Buna-N FPT x FPT Part #	Price $
1/8	0034-001-PVC	12.48
1/4	0034-002-PVC	12.48

Size (in.)	FP/Buna-N FPT x FPT Part #	Price $
1/8	0034-001-FP	12.48
1/4	0034-002-FP	12.48



Size (in.)	FN/Buna-N FPT x MPT Part #	Price $
1/4	0035-002-FN	12.48

Size (in.)	FP/Buna-N FPT x MPT Part #	Price $
1/4	0035-002-FP	12.48

Size (in.)	PVC/Buna-N FPT x MPT Part #	Price $
1/4	0035-002-PVC	12.48



Size (in.)	FN/Buna-N MPT x MPT Part #	Price $
1/4	0036-002-FN	12.48

Size (in.)	FP/Buna-N MPT x MPT Part #	Price $
1/4	0036-002-FP	12.48

Size (in.)	PVC/Buna-N MPT x MPT Part #	Price $
1/4	0036-002-PVC	12.48



Size (in.)	FN/Buna-N Barb x Barb Part #	Price $
1/4	0037-002-FN	12.48
3/8	0037-003-FN	12.48
1/2	0037-005-FN	12.48

Size (in.)	FP/Buna-N Barb x Barb Part #	Price $
1/4	0037-002-FP	12.48
3/8	0037-003-FP	12.48
1/2	0037-005-FP	12.48

Size (in.)	PVC/Buna-N Barb x Barb Part #	Price $
1/4	0037-002-PVC	12.48
3/8	0037-003-PVC	12.48
1/2	0037-005-PVC	12.48

Plastic Trunnion Ball Valves, Tube



Size (in.)	PVC/Buna-N FPT x FPT Part #	Price $
1/4	0280-002	9.00
3/8	0280-003	9.00



Size (in.)	PVC/Buna-N FPT x MPT Part #	Price $
1/4	0282-002	9.00
3/8	0282-003	9.00



Size (in.)	PVC/Buna-N MPT x MPT Part #	Price $
1/4	0281-002	9.00
3/8	0281-003	9.00

Features:
- PVC - General purpose two way trunnion ball valve
- 1/4" and 3/8" sizes with Fpm or Ethylene propylene seals
- Buna-N seals standard
- T handle
- Full porting
- Opening ID 3/8"
- Approx. (C.V.) 4
- 150 psi, max. operating temp. 140°F
- NSF / PVC approved material



CPVC Plastic Valves and Faucets

CPVC construction for use in hot or cold fluid systems up to 180°F. Beige color body with black wheel handle. Complies ANSI B2.4 & ASTM D2846. Pressure rated to 150 psi @ 72°F. EPDM seal O-ring for excellent chemical resistance and long life. Made in U.S.A.

	Part #	Description	Price $
A	1123	1/2" Boiler Drain Slip CTS x MHT	10.00
A	1124	3/4" Boiler Drain Slip CTS x MHT	10.00
B	1125	1/2" Stop & Waste Valve Slip CTS x Slip CTS	7.27
B	1126	3/4" Stop & Waste Valve Slip CTS x Slip CTS	7.27
C	1127	1/2" Stop Valve Slip CTS x Slip CTS	7.27
C	1128	3/4" Stop Valve Slip CTS x Slip CTS	7.27

Polyethylene Drum & Barrel Faucet

D	1129	3/4" MPT x Plain Outlet	5.73
D	1130	2" MPT x Plain Outlet	52.91



Plastic Valves and Faucets

Celcon (Acetal copolymer) construction for use in hot or cold fluid systems up to 180°F. Bronze color body with black wheel handle. EPDM seal O-ring. Complies ANSI B2.4 & B2.1 (Made in U.S.A.) Pressure rated to 150 psi @ 72°F. Tough PP stem.

	Part #	Description	Price $
A	1111	1/2" 45° Hose Bibb MPT x MHT	5.40
A	1112	3/4" 45° Hose Bibb MPT x MHT	5.73
B	1113	1/2" 45° Hose Bibb FPT x MHT	5.40
B	1114	3/4" 45° Hose Bibb FPT x MHT	5.73
C	1115	1/2" Sink Faucet MPT x MHT	7.76
C	1116	3/4" Sink Faucet MPT x MHT	5.73
D	1117	1/2" Boiler Drain FPT x MHT	5.40
D	1118	3/4" Boiler Drain FPT x MHT	5.73
E	1119	1/2" Boiler Drain MPT x MHT	5.40
E	1120	3/4" Boiler Drain MPT x MHT	5.73
F	1121	1/2" Stop Valve FPT x FPT	7.94
F	1122	3/4" Stop Valve FPT x FPT	7.94



PVC and PP Fluid Dispenser

Dispensing Assemblies for—
• Distilled • Deionized • Demineralized Water and Chemical Dispensing

- **Available in PVC or Natural PP**
- **Choose Ball or Needle Valve**
- **Deck or Wall mount available**
- **Made to your specifications**

ALSCO can furnish almost any faucet to meet your exact specifications.



4

Description	Valve Type	Mount Type	Part #	Price
Gooseneck - PVC	Ball Valve	Deck	1287	124.00
Gooseneck - PVC	Needle Valve	Deck	1288	124.00
Gooseneck - PP	Ball Valve	Deck	1289	190.00
Gooseneck - PP	Needle Valve	Deck	1290	155.00

ICON DryPro Dry Media - Dry Media Throttling Valve





Hopper Instalation

Features:
- High Chemical Resistance / All Plastic Body made of Glass Reinforced polypropylene and Nylon diaphragm provides excellent corrosion resistance
- No contamination of Product / Valve cannot rust - Perfect for corrosive environment
- Approved for Food / Materials of construction are food approved
- Adjustable Flow Capacity / Full 8" Orifice diameter is adjustable by rotating control handle. Position lock holds opening in diaphragm.

DryPro Dry Media Valve

Part #	Price $
DPS-008	499.00

All prices subject to change without notice.

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Gauge Guards

Plast-O-Matic Gauge Guards Series GGS



Description:
These chemical gauge guards should be utilized to isolate and protect pressure or vacuum instruments used on ultra-pure or highly corrosive fluid lines. They can be confidently used with liquids such as demineralized water, sulphuric acid, hydrochloric acid, and caustics. Use caution with chlorine applications and consult factory for recommendations. Utilization of Plast-O-Matic gauge guards offers the added advantage of protection against clogging of instruments caused by suspended solids or highly viscous fluids. Plast-O-Matic gauge guards are available with or without gauges.

Features:
- Stainless steel hex insert eliminates breakage due to overtightening.
- No exposed top metal fasteners
- Highest pressure rating.
- Offers an inexpensive initial investment.
- Reduces instrument failures.
- Reduces system down time.
- Eliminates the expense and extended delivery of special alloy instruments.
- Offers a choice of select plastic materials to assure maximum chemical and temperature compatibility.
- 1/2" NPT pipe connection x 1/4" stainless steel instrument connection
- Optional 1/2" NPT pipe connection x 1/2" all-plastic connection.
- Also offered with all-plastic housing (no insert).

4

GGS Series - Steel Reinforced Gauge Guards Without Gauges

		PVC		Glass-Filled PP		Natural PP		PVDF		CPVC	
Size (in.)	Diaphragm	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $
1/4 x 1/2	PTFE	GGTS1-PV	91.00	GGTS1-PP	122.00	GGTS1-NP	109.00	1505	164.00	GGTS1-CP	125.00
1/4 x 1/2	FKM	1236	91.00	1237	122.00	GGVS1-NP	109.00	GGVS1-PF	164.00	GGVS1-CP	125.00
1/2 x 1/2	PTFE	GGTSX1-PV	99.00	GGTSX1-PP	135.00	GGTSX1-NP	130.00	1506	185.00	GGTSX1-CP	146.00
1/2 x 1/2	FKM	1238	106.00	1239	145.00	GGVSX1-NP	130.00	GGVSX1-PF	187.00	GGVSX1-CP	146.00

GGS Series - Steel Reinforced Gauge Guards With 2 1/2" Stainless Steel Gauges 1/4" x 1/2" NPT Connections

		PVC		Glass-Filled PP		Natural PP		PVDF		CPVC	
PSI	Diaphragm	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $
0 - 15	FKM	1226	151.00	1227	178.00	GGVS015-NP	172.00	1500	211.00	GGVS015-CP	177.00
0 - 30	PTFE*	1228	151.00	1229	178.00	GGTS030-NP	172.00	1501	211.00	GGTS030-CP	177.00
0 - 60	PTFE*	1230	151.00	1231	178.00	GGTS060-NP	172.00	1502	211.00	GGTS060-CP	177.00
0 - 100	PTFE*	1232	151.00	1233	178.00	GGTS100-NP	172.00	1503	211.00	GGTS100-CP	177.00
0 - 160	PTFE*	GGTS160-PV	141.00	GGTS160-PP	166.00	GGTS160-NP	172.00	GGTS160-PF	213.00	GGTS160-CP	177.00
0 - 200	PTFE*	1234	151.00	1235	178.00	GGTS200-NP	172.00	1504	211.00	GGTS200-CP	177.00

*FKM Diaphragms Available

Plast-O-Matic Miniature Diaphragm Seals / Gauge Guards Series GGME



Advantages:
- **Compact size makes these isolators ideal for limited-space installations**
- **Low unit cost - now makes it feasible to protect even moderate priced instruments**
- **Hermetically-sealed uni-body construction - molded body avoids possibility of dangerous leaks**

Features:
- **Glass-filled PP** • **Temp to 185°F** • **Diaphragm Seals**
- **Compact size for limited space** • **1/4" Female x 1/2" Male (NPT)**
- **± 4% accuracy. Will handle most applications**
- **Use with gauges, transducers, & pressure switches**
- **Polypro bodies for excellent chemical compatibility and temps to 185°F**

Sold with Gauges Only

Seal	Part #	Pressure	Price
Buna-N	2228	0-15	$71.00
Buna-N	2229	0-30	$71.00
Buna-N	2230	0-60	$71.00
Buna-N	2231	0-100	$71.00
Buna-N	2232	0-160	$71.00
FKM	2233	0-15	$76.00
FKM	2234	0-30	$76.00
FKM	2235	0-60	$76.00
FKM	2236	0-100	$76.00
FKM	2237	0-160	$76.00

Maximum Pressure Ratings

Temperature		Liquids		Gases	
°F	(°C)	PSI	(Bars)	PSI	(Bars)
70-100 °F	(21-38°C)	160	(11.04)	100	(6.90)
100-185°F	(38-85°C)	160	(11.04)	30	(2.07)

Maximum Temperature is 185°F

FKM = Fpm® type

Gauge Guards



... meets the demanding high purity standards required in ultra-pure D.I. water systems and other ultra-pure liquids.

Plast-O-Matic Ultra-Pure Gauge Guards Series GGMU

Eliminates "Dead Leg"!

Features:

- Non-contaminating, non-pigmented virgin Polypropylene or PVDF material
- Available in PVC, PP & PVDF, with EPDM or Fpm® Seals
- In-line design eliminates "dead leg" that can harbor bacterial growth
- True union ends enable easy installation and removal
- 0-100 PSI @ 72°F
- Flexible elastomer spool assures accurate readings for pressure or vacuum
- Bleed port assure trouble-free filling
- Unique gasket assures crevice-free sealing of the end connectors
- Various piping connectors are available to adapt to most connection systems existing in the marketplace

4

Application:

The Series GGMU gauge guards are designed for ultra-pure liquid systems and specifically to eliminate piping "dead leg" that can harbor bacterial growth or other contamination. This is in addition to their basic function of keeping system liquid from coming in contact with a pressure (vacuum) gauge or other pressure instrument while still maintaining the accuracy of the gauge or instrument.

Pipe Size	PVC/EPDM Part #	Price $	Nat. PP/EPDM Part #	Price $	PVDF/Fpm Part #	Price $
1/2	1211	$550.00	1212	$591.00	1213	$1164.00
3/4	1214	$585.00	1215	$639.00	1216	$1343.00
1	1217	$633.00	1218	$711.00	1219	$1463.00
1 1/2	1220	$741.00	1221	$806.00	1222	$1553.00
2	1223	$801.00	1224	$877.00	1225	$1762.00

When ordering: Specify either IPS or Metric Deduct $55.00 without gauge



Low Profile Gauge Isolators
Marquest PVC, PP & CPVC and GF PVDF

Features:

- Protects and isolates pressure sensing instruments
- Total isolation from system media
- Low profile design eliminates dead volume
- Convoluted diaphragm allows accurate transmission of system pressure
- Optimum pressure containment spherical design
- Low in original cost and maintenance
- Simple installation

Size (in.)	PVC w/out gauge Part #	Price $
1/4X1/4	1199-A	61.90
1/4X1/2	1199-B	61.90

Size (in.)	PVC 0-60 gauge Part #	Price $
1/4X1/4	1203-A	90.50
1/4X1/2	1203-B	90.50

Size (in.)	PVC 0-160 gauge Part #	Price $
1/4X1/4	1207-A	90.50
1/4X1/2	1207-B	90.50

Size (in.)	PP w/out gauge Part #	Price $
1/4X1/4	1200-A	70.50
1/4X1/2	1200-B	70.50

Size (in.)	PP 0-60 gauge Part #	Price $
1/4X1/4	1204-A	100.40
1/4X1/2	1204-B	100.40

Size (in.)	PP 0-160 gauge Part #	Price $
1/4X1/4	1208-A	100.40
1/4X1/2	1208-B	100.40

Size (in.)	CPVC w/out gauge Part #	Price $
1/4X1/4	1201-A	76.60
1/4X1/2	1201-B	76.60

Size (in.)	CPVC 0-60 gauge Part #	Price $
1/4X1/4	1205-A	108.30
1/4X1/2	1205-B	108.30

Size (in.)	CPVC 0-160 gauge Part #	Price $
1/4X1/4	1209-A	108.30
1/4X1/2	1209-B	108.30

Size (in.)	PVDF w/out gauge Part #	Price $
1/4X1/4	1202-A	118.60
1/4X1/2	1202-B	118.60

Size (in.)	PVDF 0-60 gauge Part #	Price $
1/4X1/4	1206-A	260.30
1/4X1/2	1206-B	260.30

Size (in.)	PVDF 0-160 gauge Part #	Price $
1/4X1/4	1210-A	260.30
1/4X1/2	1210-B	260.30

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Pressure Gauges

2” and 2 1/2” Dry Pressure Gauges - NO LEAD



IPPG or
IPG Series

Features:
- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- Manufactured for AGI in an ISO 9001 facility.
- Bourdon tube movement is totally enclosed in corrosion resistant housing.
- Resists rust, electrolytic action and chemical solvents.
- Third party certified to NSF/ANSI 372. No Lead brass sockets.
- Deep drawn one piece steel or molded plastic housings encase a quality movement.
- Genuine mar-resistant glass or acrylic lens.

TO BE USED WITH AIR OR WATER ONLY.

NO LEAD Dry Gauges with 1/4” Lower Mount

2” Dial / Plastic Case

PSI	ALSCO #	Price $
0 - 30	1413NL	10.32
0 - 60	1414NL	10.32
0 - 100	1415NL	10.84

2 1/2” Dial / Black Steel Case

PSI	ALSCO #	Price $
0 - 30	1447NL	10.54
0 - 60	1448NL	10.54
0 - 100	1449NL	10.54
0 - 160	1450NL	10.54
0 - 200	1451NL	10.54
0 - 300	1452NL	10.54
0 - 400	1453NL	10.54

NO LEAD
< 0.25% Pb by weighted Avg
Third Party Certified in CA AB1953 NO LEAD LAW

4

2 1/2” Liquid Filled Pressure Gauges - NO LEAD


ILPG Series

Features:
- Stainless steel case.
- Glycerine filled, phosphor bronze bourdon tube.
- Accuracy +/- 3-2-3%.
- 2 1/2” Dial face with clear acrylic lens.
- Crimped stainless steel ring.
- For use in high vibration, corrosion situations.
- Third party certified to NSF/ANSI 372.
- No lead brass or stainless steel sockets.

TO BE USED WITH AIR OR WATER ONLY.

NO LEAD
< 0.25% Pb by weighted Avg
Third Party Certified in CA AB1953 NO LEAD LAW

NO LEAD Liquid Filled Gauges with 1/4” Lower Mount

2 1/2” Dial / Stainless Steel Case

PSI	ALSCO #	Price $
0 - 30	1461NL	16.43
0 - 60	1462NL	16.43
0 - 100	1463NL	15.75
0 - 160	1464NL	15.75
0 - 200	1465NL	15.75
0 - 300	1466NL	15.75
0 - 400	1467NL	16.43

4 1/2” Dry Pressure Gauges - NO LEAD



IPG Series

Features:
- Rugged precision made phosphor-bronze Bourdon tube movements assuring maximum accuracy (+/- 3-2-3%) under adverse field conditions.
- Manufactured for AGI in an ISO 9001 facility.
- Bourdon tube movement is totally enclosed in corrosion resistant housing.
- Resists rust, electrolytic action and chemical solvents.
- Third party certified to NSF/ANSI 372. No Lead brass sockets.
- Deep drawn one piece steel housings encase a quality movement.
- Genuine mar-resistant glass or acrylic lens.

TO BE USED WITH AIR OR WATER ONLY.

NO LEAD Dry Gauges with 1/4” Lower Mount

4 1/2” Dial / Black Steel Case

PSI	ALSCO #	Price $
0 - 30	1468NL	19.98
0 - 60	1469NL	19.98
0 - 100	1470NL	19.98
0 - 200	1471NL	19.98
0 - 300	1472NL	19.98

NO LEAD
< 0.25% Pb by weighted Avg
Third Party Certified in CA AB1953 NO LEAD LAW

2 1/2” and 3” Pressure and Temperature Tridicator Gauges



Gauge has heavy flat glass lens. Center back connection.
Composite length of 1/4" NPT connection and sensor stem is 1.4" max. Sensor stem alone is .633" max.
Pressure gauge accuracy is 3%-2%-3%.
Temperature gauge is accuracy is ±1%.

2 1/2” and 3” Pressure and Temperature Tridicator Gauges

Face / Size	PSI	Temp (°F)	Part #	Price $
Stainless 2 1/2”	0 - 160	0 - 180	PT160C-2-1/2-SS	98.00
Black Steel 3”	0 - 160	0 - 180	PT160C-3-BK	98.00

Features:
- Choice of 2 1/2" or 3" case.
- 2 1/2" is stainless case with brass connection
- 3" is steel case with stainless connection
- Pressure and temperature
- Unique short probe requires minimal depth in process
- Dual English and metric ranges
- Back center mount

Pressure Gauges

OBS Series - 2 1/2” All Plastic Gauge Plus Isolator



Features:
- 2 1/2" All Plastic Gauge + Isolator
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant / PTFE Diaphragm
- Designed to Act as Visual Pressure Alert
- Extra Large Color Display
- Reduces Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- Pressure Range Markers (Red-Yellow-Green)
- Highest Accuracy in Industry ±1.5%
- Factory Pre-Filled Glycerin or Silicone (Optional)
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries

OBS Series

Size (in.)	Material	Part #	Price $
1/2	PVC	OBS-P-0-60	169.00
1/2	PVC	OBS-P-0-100	169.00
1/2	PVC	OBS-P-0-160	169.00
1/2	PP	OBS-PP-0-60	189.00
1/2	PP	OBS-PP-0-100	189.00
1/2	PP	OBS-PP-0-160	189.00
1/2	PVDF	OBS-PF-0-60	425.00
1/2	PVDF	OBS-PF-0-100	425.00
1/2	PVDF	OBS-PF-0-160	425.00

4

2VU Series - 2 1/2” All Plastic Double Sided Gauge Plus Isolator



Features:
- 2 1/2" All Plastic Double Sided Gauge + Isolator
- Heavy Duty Rugged Design; Simple to Install
- Completely Corrosion Resistant
- Designed to Act as Visual Pressure Alert
- Extra Large Colored Display
- Reduces Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- Highest Accuracy in Industry ±1.5%
- Factory Pre-filled Glycerin or Silicone (Optional)
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries

2VU Series

Size (in.)	Material	Part #	Price $
1/2	PVC	2VU-P-0-60	199.00
1/2	PVC	2VU-P-0-100	199.00
1/2	PVC	2VU-P-0-160	199.00
1/2	PP	2VU-PP-0-60	229.00
1/2	PP	2VU-PP-0-100	229.00
1/2	PP	2VU-PP-0-160	229.00
1/2	PVDF	2VU-PF-0-60	465.00
1/2	PVDF	2VU-PF-0-100	465.00
1/2	PVDF	2VU-PF-0-160	465.00

PGS Series - 2 1/2” All Plastic Gauge Plus Pulsation Isolator



Features:
- 2 1/2" All Plastic Gauge + Pulsation Isolator
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- Red Markers Designed to Indicate Optimum Operating Range
- Extra Large Color Display
- Reduces Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- High Accuracy ±1.5%
- Factory Prefilled Glycerin
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries

PGS Series

Size (in.)	Material	Part #	Price $
1/2	PP	PGS-PP-0-60-V	119.00
1/2	PP	PGS-PP-0-100-V	119.00
1/2	PP	PGS-PP-0-160-V	119.00

OBS-R Series - 2 1/2” 360º Rotation All Plastic Gauge Plus Isolator



Features:
- 360 Degree Full Rotation
- Filled Heavy Duty Design; Simple to Install
- Corrosion Resistant
- Pressure Range Tabs (Red-Yellow-Green)
- Extra Large Colored Display
- Reduces Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- High Accuracy ±1.5%
- Factory Pre-Filled Glycerin
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries

OBS-R Series

Size (in.)	Material	Part #	Price $
1/2	PVC	OBS-R-P-60	175.00
1/2	PVC	OBS-R-P-100	175.00
1/2	PVC	OBS-R-P-160	175.00
1/2	PP	OBS-R-PP-60	195.00
1/2	PP	OBS-R-PP-100	195.00
1/2	PP	OBS-R-PP-160	195.00

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Pressure Gauges

OBS-GO Plastic Gauge - 2 1/2” All Plastic Gauge / 1/4” SST NPT



Features:
- 2 1/2" Size
- Suitable for Corrosive Environments
- Heavy Duty Design
- Completely Corrosion Resistant
- Extra Large Colored Display
- High Accuracy ±0.75%
- Factory Pre-Filled Glycerin or Silicone (Optional)
- Visual Pressure Range Tabs
- Simple to Install
- Perfect Mate for Plastic Isolators

OBS-GO Plastic Gauge

Size (in.)	Material	Part #	Price $
1/4	PP / 316 SST	OBS-GO-0-60	59.00
1/4	PP / 316 SST	OBS-GO-0-100	59.00
1/4	PP / 316 SST	OBS-GO-0-160	59.00

OBS-DGO Plastic Gauge - 2 1/2” All Plastic Double Sided Gauge / 1/4” SST NPT



Features:
- 2 1/2" Size / Double Sided
- Suitable for Corrosive Environments
- All Plastic PP Body
- Heavy Duty Design
- Completely Corrosion Resistant
- Factory Pre-Filled Glycerin or Silicone (Optional)
- Simple to Install
- Perfect Mate for Plastic Isolators
- 316 SST NPT Connection
- High Impact Case

OBS-DGO Plastic Gauge

Size (in.)	Material	Part #	Price $
1/4	PP / 316 SST	OBS-DGO-0-60	79.00
1/4	PP / 316 SST	OBS-DGO-0-100	79.00
1/4	PP / 316 SST	OBS-DGO-0-160	79.00

OBS-V Compound / Vacuum Gauge - 2 1/2” All Plastic Gauge / 1/4” SST NPT



Features:
- Compound - Vacuum + Pressure (-30 + 30 PSI)
- Suitable for Corrosive Environments
- Heavy Duty Design
- 3 Range Tabs - Red / Yellow / Green
- Extra Large Color Display
- High Accuracy
- Factory Pre-Filled Glycerin
- No Filling Required
- Visual Ranges
- Simple to Install
- Perfect Mate for Plastic Isolators

OBS-V Compound / Vacuum Gauge

Size (in.)	Material	Part #	Price $
1/4	PP / 316 SST	OBS-V-PP	79.00

OBS-TT Plastic Gauge - 2 1/2” All Plastic Gauge / 1/4” SST NPT



Features:
- 2 1/2" Size
- Indication of Pressure Surges or Spikes
- Suitable for Corrosive Environments
- Heavy Duty Design
- Completely Corrosion Resistant
- Extra Large Color Display
- High Accuracy ±0.75%
- Visual Pressure Range Tabs
- Simple to Install
- Perfect Mate for Plastic Isolators

OBS-TT Plastic Gauge

Size (in.)	Material	Part #	Price $
1/4	PP / 316 SST	OBS-TT-PP-0-60	79.00
1/4	PP / 316 SST	OBS-TT-PP-0-100	79.00
1/4	PP / 316 SST	OBS-TT-PP-0-160	79.00

OBS-A Panel Mount - 2 1/2” All Plastic Gauge Plus Isolator



Features:
- PSI + kPa Scale
- All Plastic Gauge + Isolator
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- Designed to Act as Visual Pressure
- Alert for Bag / Filter Change-Out
- Extra Large Color Display
- Reduces Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- Highest Accuracy in Industry ±1.5%
- Factory Pre-Filled Glycerin or Silicone (Optional)
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries

OBS-A Panel Mount

Size (in.)	Material	Part #	Price $
1/2	PVC	OBS-A-P-0-60	169.00
1/2	PVC	OBS-A-P-0-100	169.00
1/2	PVC	OBS-A-P-0-160	169.00
1/2	PP	OBS-A-PP-0-60	189.00
1/2	PP	OBS-A-PP-0-100	189.00
1/2	PP	OBS-A-PP-0-160	189.00
1/2	PVDF	OBS-A-PF-0-60	425.00
1/2	PVDF	OBS-A-PF-0-100	425.00
1/2	PVDF	OBS-A-PF-0-160	425.00

Pressure Gauges

OBS-LE Series - 2 1/2" All Plastic LED Display Gauge Plus Isolator



Features:
- All Plastic Gauge + Isolator
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- Designed to Act as Visual Pressure Alert for Bag / Filter Change-Out
- LED Display-Changes from Green to Red when Relay Activated
- Reduces Small Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- Highest Accuracy in Industry ±1%
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries
- No Programing Required
- PTFE Diaphragm - Standard
- M12 Connector + 6 Ft of Cable
- Power Supply 10-30 VDC
- Output 4-20 mA + 2 (NPN or PNP) Relay Outputs

OBS-LE Series

Size (in.)	Material	Part #	Price $
1/2	PVC	OBS-LE-P	599.00
1/2	PP	OBS-LE-PP	625.00
1/2	PVDF	OBS-LE-PF	749.00

4

OBS-C Series - 2 1/2" All Plastic LED Display Gauge Plus Isolator / Center Mount



Features:
- Digital LED Display
- All Plastic Gauge + Isolator / Center Mount
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- Designed to Act as Visual Pressure Alert for Bag / Filter Change-Out
- LED Display Changes from Green to Red when Relay Activated
- Reduces Small Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- Highest Accuracy in Industry ±1%
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries
- No Programing Required
- PTFE Diaphragm / PP and PVDF Bodies
- 6 Ft of Cable Included
- Power Supply 10-30 VDC
- Output 4-20 mA + 2 (NPN or PNP) Relay Outputs

OBS-C Series

Size (in.)	Material	Part #	Price $
1/2	PVC	OBS-C-LE-P	599.00
1/2	PP	OBS-C-LE-PP	625.00
1/2	PVDF	OBS-C-LE-PF	749.00

OBS-P Series - 2 1/2" All Plastic LED Display Gauge Plus Isolator / Center Panel Mount



Features:
- All Plastic Gauge + Isolator
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- Designed to Act as Visual Pressure Alert for Bag / Filter Change-Out
- LED Display Changes from Green to Red when Relay Activated
- Reduces Small Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- Highest Accuracy in Industry ±1%
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries
- No Programing Required
- PTFE Diaphragm / PP and PVDF Bodies
- 6 Ft of Cable Included
- Power Supply 10-30 VDC
- Output 4-20 mA + 2 (NPN or PNP) Relay Outputs

OBS-P Series

Size (in.)	Material	Part #	Price $
1/2	PVC	OBS-P-LE-P	599.00
1/2	PP	OBS-P-LE-PP	625.00
1/2	PVDF	OBS-P-LE-PF	749.00

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Pressure Gauges

OBS-LC Series - 2 1/2” Battery Operated All Plastic LCD Display Gauge Plus Isolator



Features:
- All Plastic Gauge + Isolator
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- Designed to Act as Visual Pressure Alert for Bag / Filter Change-Out
- Extra Large LCD Display / Backlight / 5 Sec On
- Reduces Small Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- High Accuracy ±1%
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries
- No Programing Required
- PTFE Diaphragm - Standard
- Replaceable Lithium Battery
- Long Life (3 Years)

OBS-LC Series

Size (in.)	Material	Part #	Price $
1/2	PVC	OBS-LC-P	299.00
1/2	PP	OBS-LC-PP	349.00
1/2	PVDF	OBS-LC-PF	485.00

4

BAG Series - 3” All Plastic Gauge Plus Isolator



Features:
- Extra Large 3" All Plastic Gauge + Isolator
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- 1/2” MNPT, FNPT, Flanged
- Designed to Act as Visual Pressure Alert
- Extra Large Color Display
- Reduces Pressure Surges caused by Water Hammer or Metering Pump Pulsations
- Pressure Range Markers (Red-Yellow-Green)
- Highest Accuracy in Industry ±1.5%
- Factory Pre-filled Glycerin or Silicone (Optional)
- One-Piece Molded Design (No Assembly)
- Suitable for Corrosive Media + Slurries

BAG Series

Size (in.)	Material	Part #	Price $
1/2	PVC	BAG-P-0-60	179.00
1/2	PVC	BAG-P-0-100	179.00
1/2	PVC	BAG-P-0-160	179.00
1/2	PP	BAG-PP-0-60	199.00
1/2	PP	BAG-PP-0-100	199.00
1/2	PP	BAG-PP-0-160	199.00

Delta-P Differential - Digital Pressure Differential Gauge Plus Relay





Features:
- All Plastic Design - Glass Filled Ryton
- Corrosion Resistant Housing
- NEMA 4X Rugged Enclosure
- Liquid Crystal Display
- Pressure Range 0 - 225 PSI
- Easy to Program 0.5 Amp Relay Set-Point
- PSI / Bar
- Small Footprint - Compact - Only 2” Diameter
- Easy to Install
- Low Power Detection Feature
- Actual Pressure Difference Displayed on Screen
- Manual Operation if Required
- Programmable Relay Time Intervals
- Power Supply 24 VDC
- Dry Relay Contact / 0.5 Amp at 24 VDC Normally Open Output

Delta-P Differential

Material	Part #	Price $
Ryton	DPG-2	490.00

Differential Pressure Gauges

Plast-O-Matic Differential Pressure Gauges - Series DPG / DPGS



Series DPG:
Differential Pressure Gauge, 2.5" Dial
Series DPGS:
Adjustable Differential Pressure Gauge/Switch, 2.5" Dial

Plast-O-Matic differential pressure gauges are designed to measure the difference in pressure between two points in a system and present the resultant differential pressure directly on a single gauge dial. A magnetic movement allows the simultaneous sensing of both pressure points, while completely isolating the gauge function from the pressure chamber. No mechanical seals are required. Each of these devices are engineered for durability and performance. Maximum line pressure rating is 200 PSI.

Features:
- Quantitative indication of pressure differential across a filter, points of use, etc.
- 1/4" FNPT Connections
- Choice of 0-15 PSID or 0-30 PSID Gauge; accuracy is ±2% FS
- Corrosion-resistant thermoplastic connections; PVC or CPVC
- EPDM or FKM elastomers
- No wetted metal parts
- Switch rating is 125V AC, 0.7 amps
- Made in USA

Pressure/Temperature Ratings:
Maximum temperature rating is 140ºF for PVC, 180ºF for CPVC. Minimum temperature rating is 32ºF. Maximum line pressure rating for DPG/S is 200 PSI.

PVC

PSID	Switch	FKM #	EPDM #	Price $
0 - 15	None	DPG025V-PV-15-2.5	DPG025EP-PV-15-2.5	284.00
0 - 30	None	DPG025V-PV-30-2.5	DPG025EP-PV-30-2.5	284.00
0 - 15	SPST - N/O	DPGS025V-PV-15-2.5-A	DPGS025E-PV-15-2.5-A	317.00
0 - 15	SPST - N/C	DPGS025V-PV-15-2.5-B	DPGS025E-PV-15-2.5-B	317.00
0 - 15	SPDT	DPGS025V-PV-15-2.5-C	DPGS025E-PV-15-2.5-C	317.00
0 - 30	SPST - N/O	DPGS025V-PV-30-2.5-A	DPGS025E-PV-30-2.5-A	317.00
0 - 30	SPST - N/C	DPGS025V-PV-30-2.5-B	DPGS025E-PV-30-2.5-B	317.00
0 - 30	SPDT	DPGS025V-PV-30-2.5-C	DPGS025E-PV-30-2.5-C	317.00

CPVC

PSID	Switch	FKM #	EPDM #	Price $
0 - 15	None	DPG025V-CP-15-2.5	DPG025EP-CP-15-2.5	308.00
0 - 30	None	DPG025V-CP-30-2.5	DPG025EP-CP-30-2.5	308.00
0 - 15	SPST - N/O	DPGS025V-CP-15-2.5-A	DPGS025E-CP-15-2.5-A	341.00
0 - 15	SPST - N/C	DPGS025V-CP-15-2.5-B	DPGS025E-CP-15-2.5-B	341.00
0 - 15	SPDT	DPGS025V-CP-15-2.5-C	DPGS025E-CP-15-2.5-C	341.00
0 - 30	SPST - N/O	DPGS025V-CP-30-2.5-A	DPGS025E-CP-30-2.5-A	341.00
0 - 30	SPST - N/C	DPGS025V-CP-30-2.5-B	DPGS025E-CP-30-2.5-B	341.00
0 - 30	SPDT	DPGS025V-CP-30-2.5-C	DPGS025E-CP-30-2.5-C	341.00

Plast-O-Matic Differential Pressure Indicators - Series DPI / DPIS



Series DPI:
Compact Differential Pressure Indicator, 1" Dial
Series DPIS:
Compact Differential Pressure Indicator/Switch, 1" Dial

Plast-O-Matic differential pressure indicators are designed to show at a glance if maximum filter pressure has been exceeded. Maximum line pressure rating is 150 PSI.

Features:
- Clear indication of filter performance
- Compact, economical, reliable
- 1/8" FNPT Connections
- Choice of 0-15 PSID or 0-30 PSID Gauge; accuracy is ±5% FS
- Corrosion-resistant thermoplastic connections; PVC or CPVC
- EPDM or FKM elastomers
- No wetted metal parts
- Switch rating is 125V AC, 0.7 amps
- Made in USA

Pressure/Temperature Ratings:
Maximum temperature rating is 140ºF for PVC, 180ºF for CPVC. Minimum temperature rating is 32ºF. Maximum line pressure rating for DPI/S is 150 PSI.

PVC

PSID	Switch	FKM #	EPDM #	Price $
0 - 15	None	DPI125V-PV-15-1	DPI125EP-PV-15-1	168.00
0 - 30	None	DPI125V-PV-30-1	DPI125EP-PV-30-1	168.00
0 - 15	SPST - N/O	DPIS125V-PV-15-A-1	DPIS125EP-PV-15-A-1	208.00
0 - 15	SPST - N/C	DPIS125V-PV-15-B-1	DPIS125EP-PV-15-B-1	208.00
0 - 15	SPDT	DPIS125V-PV-15-C-1	DPIS125EP-PV-15-C-1	208.00
0 - 30	SPST - N/O	DPIS125V-PV-30-A-1	DPIS125EP-PV-30-A-1	208.00
0 - 30	SPST - N/C	DPIS125V-PV-30-B-1	DPIS125EP-PV-30-B-1	208.00
0 - 30	SPDT	DPIS125V-PV-30-C-1	DPIS125EP-PV-30-C-1	208.00

CPVC

PSID	Switch	FKM #	EPDM #	Price $
0 - 15	None	DPI125V-CP-15-1	DPI125EP-CP-15-1	175.00
0 - 30	None	DPI125V-CP-30-1	DPI125EP-CP-30-1	175.00
0 - 15	SPST - N/O	DPIS125V-CP-15-A-1	DPIS125EP-CP-15-A-1	218.00
0 - 15	SPST - N/C	DPIS125V-CP-15-B-1	DPIS125EP-CP-15-B-1	218.00
0 - 15	SPDT	DPIS125V-CP-15-C-1	DPIS125EP-CP-15-C-1	218.00
0 - 30	SPST - N/O	DPIS125V-CP-30-A-1	DPIS125EP-CP-30-A-1	218.00
0 - 30	SPST - N/C	DPIS125V-CP-30-B-1	DPIS125EP-CP-30-B-1	218.00
0 - 30	SPDT	DPIS125V-CP-30-C-1	DPIS125EP-CP-30-C-1	218.00

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Pressure Regulators

Plast-O-Matic Pressure Regulators - Series PRA & PRAM



Description:
Designed for highly corrosive and ultra-pure chemicals, this pressure regulator uses compressed air to control pressure with greater accuracy as compared to standard spring-controlled models. Sizes 1/4", 1/2" and 3" are Series PRA; sizes 3/4", 1", 1 1/2" and 2" are Series PRAM.

Pressure regulators provide protection for valuable downstream instruments and filtration systems by converting fluctuating or excessive inlet pressure to a preset maximum downstream pressure. The PRA/PRAM will routinely handle inlet pressure up to 150 PSI and accurately maintain a downstream pressure from 5 to 125 PSI.

The design of the PRA/PRAM features two opposing large area frictionless rolling diaphragms. Process pressure is applied to one of the diaphragms; air pressure is applied to the other. Because the air pressure can be maintained with more accuracy than the force provided by a spring, the PRA/PRAM offers greater sensitivity and less variance from set pressure than any thermoplastic pressure regulator previously available. The PRA/PRAM can be used in combination with Plast-O-Matic's patented Stabilizer which measures downstream liquid pressure and provides continuous feedback control for even greater sensitivity and performance.

PVC / EPDM

Size (in.)	ALSCO Part #	Price $
1/4	PRA025EP-PV	328.00
1/2	PRA050EP-PV	394.00
3/4	PRAM075EP-PV	617.00
1	PRAM100EP-PV	683.00
1 1/2	PRAM150EP-PV	832.00
2	PRAM200EP-PV	1040.00
3	PRA300EP-PV	1596.00

PP / EPDM

Size (in.)	ALSCO Part #	Price $
1/4	PRA025EP-PP	352.00
1/2	PRA050EP-PP	433.00
3/4	PRAM075EP-PP	649.00
1	PRAM100EP-PP	771.00
1 1/2	PRAM150EP-PP	877.00
2	PRAM200EP-PP	1128.00
3	PRA300EP-PP	1698.00

PVDF / EPDM

Size (in.)	ALSCO Part #	Price $
1/4	PRA025EP-PF	967.00
1/2	PRA050EP-PF	1212.00
3/4	PRAM075EP-PF	2064.00
1	PRAM100EP-PF	2302.00
1 1/2	N/A	N/A
2	N/A	N/A
3	N/A	N/A

PVC / FKM

Size (in.)	ALSCO Part #	Price $
1/4	PRA025V-PV	335.00
1/2	PRA050V-PV	399.00
3/4	PRAM075V-PV	623.00
1	PRAM100V-PV	689.00
1 1/2	PRAM150V-PV	838.00
2	PRAM200V-PV	1045.00
3	PRA300V-PV	1604.00

PP / FKM

Size (in.)	ALSCO Part #	Price $
1/4	PRA025V-PP	357.00
1/2	PRA050V-PP	439.00
3/4	PRAM075V-PP	655.00
1	PRAM100V-PP	777.00
1 1/2	PRAM150V-PP	883.00
2	PRAM200V-PP	1135.00
3	PRA300V-PP	1704.00

PVDF / FKM

Size (in.)	ALSCO Part #	Price $
1/4	PRA025V-PF	980.00
1/2	PRA050V-PF	1224.00
3/4	PRAM075V-PF	2076.00
1	PRAM100V-PF	2314.00
1 1/2	N/A	N/A
2	N/A	N/A
3	N/A	N/A

Features:
- Higher flow rates with less pressure loss.
- Automatically regulates and prevents downstream pressure from exceeding its set point.
- Wide range of adjustable settings from 5 to 125 PSI.
- Rugged construction with inlet pressure to 150 PSI.
- Dual rolling diaphragm design assures sensitive operation.
- Connection types NPT, Socket, Metric, BSP, Spigot, Flare, and custom.
- Use with optional Series PRS Stabilizer® to provide ultimate pressure control.

Plast-O-Matic Differential Pressure Regulators - Series PRD & PRDM



Description:
Series PRD & PRDM are a differential pressure regulator based on Series PR with two threaded ports. One port is for a downstream pressure sensing line, the other is fitted with a bleed screw to exhaust air from the housing. Otherwise, design is identical to Series PR. The sensing line feeds the pressure downstream of the equipment being protected to the top of the spring housing. This pressure assists the spring in keeping the regulator open against the pressure directly at the regulator outlet. When pressure downstream begins to drop (as it would when a filter becomes more and more clogged), the regulator begins to close and becomes fully closed when the differential setting is reached. This assures against overpressure across the bank of filters or whatever the equipment may be.

Sizes 1/4", 1/2" and 3" are Series PRD; sizes 3/4", 1", 1 1/2" and 2" are Series PRDM.

Features:
- Pressure setting is infinitely adjustable from 5 psi to 50 psi.
- Maximum inlet pressure is 150 psi.
- Available in Grade 1, Type 1 Geon® PVC
- Installs easily; common tubing is used to connect to desired point downstream.
- Spring is fluoropolymer coated since downstream liquid is in contact.
- High performance, heavy-duty design.

PVC / EPDM

Size (in.)	ALSCO Part #	Price $
1/4	PRD025EP-PV	500.00
1/2	PRD050EP-PV	652.00
3/4	PRDM075EP-PV	870.00
1	PRDM100EP-PV	1001.00
1 1/2	PRDM150EP-PV	1145.00
2	PRDM200EP-PV	1594.00
3	PRD300EP-PV	2943.00

PVC / FKM

Size (in.)	ALSCO Part #	Price $
1/4	PRD025V-PV	507.00
1/2	PRD050V-PV	659.00
3/4	PRDM075V-PV	875.00
1	PRDM100V-PV	1006.00
1 1/2	PRDM150V-PV	1151.00
2	PRDM200V-PV	1600.00
3	PRD300V-PV	2950.00

PP / EPDM

Size (in.)	ALSCO Part #	Price $
1/4	PRD025EP-PP	533.00
1/2	PRD050EP-PP	693.00
3/4	PRDM075EP-PP	938.00
1	PRDM100EP-PP	1066.00
1 1/2	PRDM150EP-PP	1219.00
2	PRDM200EP-PP	1796.00
3	PRD300EP-PP	3166.00

PP / FKM

Size (in.)	ALSCO Part #	Price $
1/4	PRD025V-PP	539.00
1/2	PRD050V-PP	700.00
3/4	PRDM075V-PP	944.00
1	PRDM100V-PP	1072.00
1 1/2	PRDM150V-PP	1225.00
2	PRDM200V-PP	1804.00
3	PRD300V-PP	3171.00

Pressure Regulators

Plast-O-Matic Pressure Regulators - Series TRVDT



Description:
High flow relief/by-pass valve with 3-port design, ideal for applications where minimal footprint is required or where use of a piping tee is impractical. Valve has a straight-through flow pattern when closed. When set point is exceeded, the diaphragm is lifted off the center port, and excess flows "down" and out through the third port at the bottom of the valve.

Features:
- Relief: protects systems and equipment from over-pressure/pressure surges.
- By-Pass: prevents pumps from "dead heading".
- Unique PTFE Diaphragm is excellent for use with highly aggressive liquids and also provides the ultimate in contamination-free sealing.
- Rugged thermoplastic construction is ideal for a broad range of industrial applications.
- Relief setting is infinitely adjustable from 5 psi to 100 psi.
- Maximum inlet pressure is 150 psi.
- Large diaphragm area delivers more sensitivity and less pressure drop under flow conditions.
- Non-wetted u-cup seal provides a second isolation of the control spring; design includes patented Fail-Dry vent, a safety feature that provides visual warning of seal malfunction. This permits the valve to continue operation until a scheduled maintenance can be planned thereby avoiding a costly shutdown. Fail-Dry connection on Series TRVDT is 1/8" FNPT.
- Non-leaching feature of fluoropolymer diaphragm makes it ideal for use with ultra-pure water and concentrated etchants, as in the semiconductor industry.

PVC / FKM

Size (in.)	ALSCO Part #	Price $
1/2	TRVDT050T-PV	357.00
3/4	TRVDT075T-PV	396.00
1	TRVDT100T-PV	462.00

CPVC / FKM

Size (in.)	ALSCO Part #	Price $
1/2	TRVDT050T-CP	535.00
3/4	TRVDT075T-CP	590.00
1	TRVDT100T-CP	676.00

PP / FKM

Size (in.)	ALSCO Part #	Price $
1/2	TRVDT050T-PP	412.00
3/4	TRVDT075T-PP	473.00
1	TRVDT100T-PP	540.00

PVDF / FKM

Size (in.)	ALSCO Part #	Price $
1/2	TRVDT050T-PF	1178.00
3/4	TRVDT075T-PF	1371.00
1	TRVDT100T-PF	1566.00

PTFE / FKM

Size (in.)	ALSCO Part #	Price $
1/2	TRVDT050T-TF	825.00
3/4	TRVDT075T-TF	945.00
1	TRVDT100T-TF	1088.00

Plast-O-Matic Thermoplastic Pressure Switches - Series SWT



Description:
The Plast-O-Matic Series SWT Pressure Switch can be used to activate or de-activate equipment when pressure in a piping system either rises or falls to a set pressure. Liquid in the piping system acts against a PTFE diaphragm. The diaphragm works against a piston and spring, which triggers an electrical switch within the upper chamber of the unit. Spring pressure is set by simply threading the adjusting screw in or out.

Series SWT contains a snap-action electric switch with three terminals. One is common, one is normally-open, and one is normally-closed. The normally-open switch will close upon reaching the set pressure, and the normally-closed switch will open when set pressure is reached. Set pressure can be reached by higher system pressure falling to the set value, or when lower system pressure rises to the set value.

Features:
- Used to signal equipment when pressure in a piping system either rises or falls to a set pressure.
- Adjusts easily with adjusting screw.
- Maximum operating pressure of 150 psi via three easy-to-change spring ranges.
- NEMA 4X design and patented Fail-Dry® enhance system safety.
- Electrical switch is UL recognized and CSA approved.
- Corrosion-resistant plastic cord grip and 18" cable simplify installation.
- Better piston design and piston guidance vs. competition enhances reliability and accuracy.
- Tested to 1,000,000 cycles in laboratory conditions.
- PTFE diaphragm with no wetted metals or elastomers ideal for ultra-pure liquids.
- Versatile snap-action 16 Amp/3 terminal switch is standard; 25 Amp and low dead band 3 Amp switches optional.

PVC

Size (in.)	AMP	ALSCO Part #	Price $
1/2	3	SWT050T-3A-PV	488.00
1/2	16	SWT050T-16A-PV	419.00
1/2	25	SWT050T-25A-PV	434.00

CPVC

Size (in.)	AMP	ALSCO Part #	Price $
1/2	3	SWT050T-3A-CP	655.00
1/2	16	SWT050T-16A-CP	561.00
1/2	25	SWT050T-25A-CP	578.00

PP

Size (in.)	AMP	ALSCO Part #	Price $
1/2	3	SWT050T-3A-PP	498.00
1/2	16	SWT050T-16A-PP	429.00
1/2	25	SWT050T-25A-PP	442.00

PVDF

Size (in.)	AMP	ALSCO Part #	Price $
1/2	3	SWT050T-3A-PF	755.00
1/2	16	SWT050T-16A-PF	662.00
1/2	25	SWT050T-25A-PF	678.00

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Pressure Regulators



PLAST-*O*-MATIC

Features:
- Available in PVC, CPVC, PP, PVDF, and PTFE with EPDM, Fpm seals
- Handle highly corrosive or ultra-pure liquids
- Prevent overpressures in vessels and piping systems

Series RVT
- A non-sticking design utilizing a PTFE shaft
- Patented FAIL-DRY design for added protection
- Set pressures from 5 to 100 psi (1/3 to 7 Bars)
- Stainless fasteners are standard

Series RVD
- A diaphragm design which is an advantage where salt crystallization problems can cause valve sticking.
- Set pressures from 5 to 150 psi. (1/3 to 10 Bars) on sizes 1/8" thru 1/2" only.
- Stainless Fasteners are standard

Series RVT & RVD
- Supplied with adjusting screws so that the user can make his own setting according to the pressure requirements.

CAUTION: The RVT and RVD series are not "POP SAFETY" valves and should not be used in applications requiring such valves.

SERIES RVT - 90° Angle Pattern With PTFE Shaft, Relief, By-Pass & Back Pressure Valves

Size (in.)	PVC EPDM/Fpm® Part #	Price $
1/2	0311-005-EP	386.00
1/2	0311-005-V	392.00
3/4	0311-007-EP	449.00
3/4	0311-007-V	454.00
1	0311-010-EP	502.00
1	0311-010-V	507.00
1 1/4	0311-012-EP	573.00
1 1/4	0311-012-V	579.00
1 1/2	0311-015-EP	690.00
1 1/2	0311-015-V	696.00
2	0311-020-EP	822.00
2	0311-020-V	828.00
3	0311-030-EP	1585.00
3	0311-030-V	1600.00

Size (in.)	CPVC EPDM/Fpm® Part #	Price $
1/2	0312-005-EP	543.00
1/2	0312-005-V	551.00
3/4	0312-007-EP	632.00
3/4	0312-007-V	637.00
1	0312-010-EP	743.00
1	0312-010-V	748.00
1 1/4	0312-012-EP	830.00
1 1/4	0312-012-V	836.00
1 1/2	0312-015-EP	942.00
1 1/2	0312-015-V	947.00
2	0312-020-EP	1088.00
2	0312-020-V	1095.00
3	0312-030-EP	1688.00
3	0312-030-V	1694.00

Size (in.)	Nat. PP EPDM/Fpm® Part #	Price $
1/2	0313-005-EP	468.00
1/2	0313-005-V	474.00
3/4	0313-007-EP	545.00
3/4	0313-007-V	551.00
1	0313-010-EP	645.00
1	0313-010-V	651.00
1 1/2	0313-015-EP	817.00
1 1/2	0313-015-V	824.00
2	0313-020-EP	1001.00
2	0313-020-V	1007.00

Size (in.)	PTFE EPDM/Fpm® Part #	Price $
1/2	0314-005-EP	886.00
1/2	0314-005-V	891.00
3/4	0314-007-EP	1008.00
3/4	0314-007-V	1014.00
1	0314-010-EP	1186.00
1	0314-010-V	1192.00
1 1/2	0314-015-EP	1555.00
1 1/2	0314-015-V	1569.00
2	0314-020-EP	1886.00
2	0314-020-V	1908.00

Size (in.)	PVDF EPDM/Fpm® Part #	Price $
1/2	0315-005-EP	1234.00
1/2	0315-005-V	1241.00
3/4	0315-007-EP	1474.00
3/4	0315-007-V	1474.00
1	0315-010-EP	1758.00
1	0315-010-V	1763.00
1 1/2	0315-015-EP	2394.00
1 1/2	0315-015-V	2406.00
2	0315-020-EP	3207.00
2	0315-020-V	3226.00

SERIES RVD - 90° Angle Diaphragm Relief, By-Pass and Back Pressure Valves

Size (in.)	PVC EPDM/Fpm® Part #	Price $
1/4	0316-002-EP	194.00
1/4	0316-002-V	197.00
1/2	0316-005-EP	213.00
1/2	0316-005-V	219.00

Size (in.)	PTFE EPDM/Fpm® Part #	Price $
1/4	0318-002-EP	468.00
1/4	0318-002-V	471.00
1/2	0318-005-EP	510.00
1/2	0318-005-V	516.00

Size (in.)	Nat. PP EPDM/Fpm® Part #	Price $
1/4	0317-002-EP	248.00
1/4	0317-002-V	249.00
1/2	0317-005-EP	279.00
1/2	0317-005-V	285.00

Size (in.)	PVDF EPDM/Fpm® Part #	Price $
1/4	0319-002-EP	703.00
1/4	0319-002-V	711.00
1/2	0319-005-EP	761.00
1/2	0319-005-V	769.00

SERIES RVDM - In Line Pattern Relief, By-Pass and Back Pressure Valves

Size (in.)	PVC EPDM/Fpm® Part #	Price $
1/2	0320-005-EP	580.00
1/2	0320-005-V	588.00
3/4	0320-007-EP	677.00
3/4	0320-007-V	684.00
1	0320-010-EP	773.00
1	0320-010-V	780.00

Size (in.)	CPVC EPDM/Fpm® Part #	Price $
1/2	0321-005-EP	806.00
1/2	0321-005-V	816.00
3/4	0321-007-EP	899.00
3/4	0321-007-V	905.00
1	0321-010-EP	1017.00
1	0321-010-V	1024.00

Size (in.)	GPP EPDM/Fpm® Part #	Price $
1/2	0322-005-EP	832.00
1/2	0322-005-V	838.00
3/4	0322-007-EP	929.00
3/4	0322-007-V	935.00
1	0322-010-EP	935.00
1	0322-010-V	1024.00

Size (in.)	PVDF EPDM/Fpm® Part #	Price $
1/2	0323-005-EP	1358.00
1/2	0323-005-V	1365.00
3/4	0323-007-EP	1461.00
3/4	0323-007-V	1468.00
1	0323-010-EP	1535.00
1	0323-010-V	1541.00

SERIES RVDT - PTFE® Diaphragm, Relief, By-Pass & Back Pressure Valves
- One valve design functions as a relief valve, by-pass valve and back-pressure valve.
- Available in PVC, CPVC, Nat. PP, PTFE, PVDF and Stainless Steel with Fpm in sizes 1/4" thru 3".
- Non-leaching feature of PTFE makes it ideal for ultra-pure water.
- Unique PTFE Diaphragm is excellent for use with highly aggressive liquids

Size (in.)	PVC / FPM		CPVC / FPM		NAT. PP / FPM		PTFE / FPM		PVDF / FPM		SS / FPM	
	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $
1/4	0339-002-V	318.00	0348-002-V	461.00	0340-002-V	372.00	0341-002-V	585.00	0342-002-V	839.00	N/A	N/A
1/2	0339-005-V	374.00	0348-005-V	557.00	0340-005-V	433.00	0341-005-V	717.00	0342-005-V	1124.00	0352-005-V	695.00
3/4	0339-007-V	430.00	0348-007-V	620.00	0340-007-V	505.00	0341-007-V	884.00	0342-007-V	1330.00	0352-007-V	875.00
1	0339-010-V	503.00	0348-010-V	704.00	0340-010-V	566.00	0341-010-V	976.00	0342-010-V	1715.00	0352-010-V	950.00
1 1/2	0339-015-V	607.00	0348-015-V	904.00	0340-015-V	767.00	N/A	N/A	0342-015-V	2305.00	N/A	N/A
2	0339-020-V	980.00	0348-020-V	1350.00	0340-020-V	1190.00	N/A	N/A	0342-020-V	3224.00	N/A	N/A
3	0339-030-V	1867.00	0348-030-V	3116.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pressure Regulators

Plast-O-Matic Series PRH Pressure Regulators



Features:

- Available in PVC, Nat. PP, PTFE, and PVDF with EPDM, Fpm or Buna-N in sizes 1/4" thru 3".
- For corrosive and ultra-pure liquids with inlet pressure up to 150 psi at 75°F.
- Wide range of adjustable settings available from 5 to 50 psi.
- Rolling diaphragm design assures sensitive operation.
- Seal concepts provide non-sticking design.
- Control spring is not in the liquid.

Size (in.)	PVC EPDM/Fpm® Part #	Price $
1/4	0324-002-EP	441.00
1/4	0324-002-V	447.00
1/2*	0324-005-EP	508.00
1/2*	0324-005-V	513.00
3/4	0324-007-EP	712.00
3/4	0324-007-V	718.00
1	0324-010-EP	855.00
1	0324-010-V	860.00
1 1/2	0324-015-EP	988.00
1 1/2	0324-015-V	993.00
2	0324-020-EP	1243.00
2	0324-020-V	1249.00
3	0324-030-EP	2802.00
3	0324-030-V	2807.00

Size (in.)	Nat. PP EPDM/Fpm® Part #	Price $
1/4	0325-002-EP	560.00
1/4	0325-002-V	566.00
1/2	0325-005-EP	640.00
1/2	0325-005-V	645.00
3/4	0325-007-EP	869.00
3/4	0325-007-V	877.00
1	0325-010-EP	1016.00
1	0325-010-V	1023.00
1 1/2	0325-015-EP	1175.00
1 1/2	0325-015-V	1180.00
2	0325-020-EP	1569.00
2	0325-020-V	1575.00
3	0325-030-EP	4143.00
3	0325-030-V	4153.00

Size (in.)	PTFE EPDM/Fpm® Part #	Price $
1/4	0326-002-EP	1099.00
1/4	0326-002-V	1112.00
1/2	0326-005-EP	1176.00
1/2	0326-005-V	1188.00
3/4	0326-007-EP	1698.00
3/4	0326-007-V	1710.00
1	0326-010-EP	1837.00
1	0326-010-V	1849.00
1 1/2	0326-015-EP	2307.00
1 1/2	0326-015-V	2318.00

Size (in.)	PVDF EPDM/Fpm® Part #	Price $
1/4	0327-002-EP	1486.00
1/4	0327-002-V	1498.00
1/2	0327-005-EP	1486.00
1/2	0327-005-V	1498.00
3/4	0327-007-EP	2120.00
3/4	0327-007-V	2132.00
1	0327-010-EP	2276.00
1	0327-010-V	2289.00
1 1/2	0327-015-EP	3354.00
1 1/2	0327-015-V	3365.00
2	0327-020-EP	3809.00
2	0327-020-V	3822.00
3	0327-030-EP	5276.00
3	0327-030-V	5290.00

*1/2" PRHM PVC Models are molded design w/a std pressure range of 5 to 125 PSI

PLAST-*O*-MATIC Series PRHM Pressure Regulators

Designed for Higher Flow Capacities with Less System Pressure Loss



Features:

- For corrosive and ultra-pure liquid applications
- Downstream pressure settings adjustable from 5 psi to 125 psi.
- Large surface area of its frictionless rolling diaphragm provides exceptional sensitivity
- Optional gauge ports
- Available in PVC, CPVC, Nat. PP and PVDF with EPDM or Fpm in sizes 3/4" and 1".
- Converts varying inlet pressure up to 150 PSI, to a stabilized, lower pre-set downstream pressure.
- Protects sensitive downstream instruments, tubing and filters against damage from overpressure/pressure surges; permits the entire system to operate safely and effectively.
- Double U-cups prevent leakage along the shaft and eliminates the possibility of "creep".

Pressure Regulator Selection:

In the selection of a liquid pressure regulator, flow capacity with minimum system pressure loss are critical criteria, but it should be recognized that all similar-size competitive regulators do not provide similar performance levels. The new Series PRHM regulators provide not only higher set pressures and flow capacities with each model, but these are achieved with less pressure losses than with similar size competitive regulators.

Size (in.)	PVC EPDM/Fpm® Part #	Price $
1/4	0336-002-EP	712.00
1/4	0336-002-V	720.00
1/2	0336-005-EP	788.00
1/2	0336-005-V	794.00
3/4	0336-007-EP	1107.00
3/4	0336-007-V	1113.00
1	0336-010-EP	1385.00
1	0336-010-V	1391.00
1 1/2	0336-015-EP	1663.00
1 1/2	0336-015-V	1669.00
2	0336-020-EP	2500.00
2	0336-020-V	2505.00

Size (in.)	Nat. PP EPDM/Fpm® Part #	Price $
3/4	0337-007-EP	715.00
3/4	0337-007-V	720.00
1	0337-010-EP	835.00
1	0337-010-V	840.00

Size (in.)	PVDF EPDM/Fpm® Part #	Price $
3/4	0338-007-EP	1811.00
3/4	0338-007-V	1821.00
1	0338-010-EP	1945.00
1	0338-010-V	1955.00

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Variable Area Flow Indicators

Plast-O-Matic Variable Area Flow Indicators - Series FIG / FIGS



Series FIG:
Variable Area Flow Indicator Gauge, 2.5" Dial
Series FIGS:
Variable Area Flow Indicator, Gauge/Switch, 2.5" Dial

Plast-O-Matic flow gauges indicate liquid flow rates from low flows of 0-1 GPM to 0-10 GPM, even when used at high line pressures. Flow gauge sensors can be supplied with switches or relays to initiate alarms, activate other equipment, or shut the system down. Two switches are used when high and low limits are desired. Maximum line pressure rating is 200 PSI.

Features:
- Quantitative readout of variable area flow
- 1/4" or 1/2" FNPT Connections
- Choice of 0-1, 0-2, 0-5 or 0-10 GPM Gauge; accuracy is ±5% FS
- Corrosion-resistant thermoplastic connections; PVC or CPVC
- EPDM or FKM elastomers
- No wetted metal parts
- Switch rating is 125V AC, 0.7 amps
- Made in USA

Pressure/Temperature Ratings:
Maximum temperature rating is 140ºF for PVC, 180ºF for CPVC. Maximum line pressure rating for FIG/S is 200 PSI.

4

PVC

Size	GPM	Switch	FKM #	EPDM #	Price $
1/4"	0 - 1	None	FIG025V-PV-2.5-1	FIG025EP-PV-2.5-1	291.00
1/4"	0 - 2	None	FIG025V-PV-2.5-2	FIG025EP-PV-2.5-2	291.00
1/4"	0 - 1	SPST - N/O	FIGS025V-PV-2.5-A-1	FIGS025EP-PV-2.5-A-1	350.00
1/4"	0 - 1	SPST - N/C	FIGS025V-PV-2.5-B-1	FIGS025EP-PV-2.5-B-1	350.00
1/4"	0 - 1	SPDT	FIGS025V-PV-2.5-C-1	FIGS025EP-PV-2.5-C-1	350.00
1/4"	0 - 2	SPST - N/O	FIGS025V-PV-2.5-A-2	FIGS025EP-PV-2.5-A-2	350.00
1/4"	0 - 2	SPST - N/C	FIGS025V-PV-2.5-B-2	FIGS025EP-PV-2.5-B-2	350.00
1/4"	0 - 2	SPDT	FIGS025V-PV-2.5-C-2	FIGS025EP-PV-2.5-C-2	350.00
1/2"	0 - 5	None	FIG050V-PV-2.5-5	FIG050EP-PV-2.5-5	291.00
1/2"	0 - 10	None	FIG050V-PV-2.5-10	FIG050EP-PV-2.5-10	291.00
1/2"	0 - 5	SPST - N/O	FIGS050V-PV-2.5-A-5	FIGS050EP-PV-2.5-A-5	400.00
1/2"	0 - 5	SPST - N/C	FIGS050V-PV-2.5-B-5	FIGS050EP-PV-2.5-B-5	400.00
1/2"	0 - 5	SPDT	FIGS050V-PV-2.5-C-5	FIGS050EP-PV-2.5-C-5	400.00
1/2"	0 - 10	SPST - N/O	FIGS050V-PV-2.5-A-10	FIGS050E-PV-2.5-A-10	400.00
1/2"	0 - 10	SPST - N/C	FIGS050V-PV-2.5-B-10	FIGS050E-PV-2.5-B-10	400.00
1/2"	0 - 10	SPDT	FIGS050V-PV-2.5-C-10	FIGS050E-PV-2.5-C-10	400.00

CPVC

Size	GPM	Switch	FKM #	EPDM #	Price $
1/4"	0 - 1	None	FIG025V-CP-2.5-1	FIG025EP-CP-2.5-1	317.00
1/4"	0 - 2	None	FIG025V-CP-2.5-2	FIG025EP-CP-2.5-2	317.00
1/4"	0 - 1	SPST - N/O	FIGS025V-CP-2.5-A-1	FIGS025EP-CP-2.5-A-1	374.00
1/4"	0 - 1	SPST - N/C	FIGS025V-CP-2.5-B-1	FIGS025EP-CP-2.5-B-1	374.00
1/4"	0 - 1	SPDT	FIGS025V-CP-2.5-C-1	FIGS025EP-CP-2.5-C-1	374.00
1/4"	0 - 2	SPST - N/O	FIGS025V-CP-2.5-A-2	FIGS025EP-CP-2.5-A-2	374.00
1/4"	0 - 2	SPST - N/C	FIGS025V-CP-2.5-B-2	FIGS025EP-CP-2.5-B-2	374.00
1/4"	0 - 2	SPDT	FIGS025V-CP-2.5-C-2	FIGS025EP-CP-2.5-C-2	374.00
1/2"	0 - 5	None	FIG050V-CP-2.5-5	FIG050EP-CP-2.5-5	317.00
1/2"	0 - 10	None	FIG050V-CP-2.5-10	FIG050EP-CP-2.5-10	317.00
1/2"	0 - 5	SPST - N/O	FIGS050V-CP-2.5-A-5	FIGS050EP-CP-2.5-A-5	424.00
1/2"	0 - 5	SPST - N/C	FIGS050V-CP-2.5-B-5	FIGS050EP-CP-2.5-B-5	424.00
1/2"	0 - 5	SPDT	FIGS050V-CP-2.5-C-5	FIGS050EP-CP-2.5-C-5	424.00
1/2"	0 - 10	SPST - N/O	FIGS050V-CP-2.5-A-10	FIGS050E-CP-2.5-A-10	424.00
1/2"	0 - 10	SPST - N/C	FIGS050V-CP-2.5-B-10	FIGS050E-CP-2.5-B-10	424.00
1/2"	0 - 10	SPDT	FIGS050V-CP-2.5-C-10	FIGS050E-CP-2.5-C-10	424.00

Plast-O-Matic Differential Pressure Flow Meters - Series DPFM



Series DPFM:
Differential Pressure Flow Meter, 3.5" Dial

This design features a spring-loaded diaphragm and magnetic movement to measure the pressure drop across a fixed orifice. Flow rate is proportional to the square root of the resulting differential, and directly displayed on the dial as gallons per minute. The magnetic movement is isolated from the liquid, with no linkages or other mechanical parts prone to variations or failure. Overall accuracy is ±2% full scale ascending, with repeatability at ±1%. These gauges feature a 5:1 turndown ratio; dial starting mark is 20% of full scale. Maximum pressure rating is 100 PSI. Connections are FNPT. For other options, please contact factory.

Features:
- Large, rugged flow nozzle for minimal pressure drop
- Isolated magnetic movement
- Highly visible 3.5" gauge
- 1/2" or 2" NPT ports
- PVC or CPVC bodies; FKM or EPDM seals
- Long life, wear-resistant design
- No wetted metal parts
- Non-clogging design
- Made in USA

Pressure/Temperature Ratings:
Maximum temperature rating is 140ºF for PVC, 180ºF for CPVC. Maximum line pressure rating for DPFM is 100 PSI.

PVC

Pipe Size	GPM	FKM #	EPDM #	Price $
1/2" NPT	0 - 10	DPFM050V-PV-10	DPFM050EP-PV-10	850.00
2" NPT	0 - 50	DPFM200V-PV-50	DPFM200EP-PV-50	1115.00
2" NPT	0 - 100	DPFM200V-PV-100	DPFM200EP-PV-100	1115.00
2" NPT	0 - 200	DPFM200V-PV-200	DPFM200EP-PV-200	1115.00

CPVC

Pipe Size	GPM	FKM #	EPDM #	Price $
1/2" NPT	0 - 10	DPFM050V-CP-10	DPFM050EP-CP-10	985.00
2" NPT	0 - 50	DPFM200V-CP-50	DPFM200EP-CP-50	1160.00
2" NPT	0 - 100	DPFM200V-CP-100	DPFM200EP-CP-100	1160.00
2" NPT	0 - 200	DPFM200V-CP-200	DPFM200EP-CP-200	1160.00

Air Operated Shut Off Valves

Plast-O-Matic Air Operated Shut Off Valves - Series BSDA & BSDAM



Description:
Designed for pressure and drain applications processing ultra pure water and highly corrosive chemicals. The valve is ideal for a wide range of uses, from pharmaceutical to semiconductor in PTFE, Kynar® PVDF or Polypro body materials; car washes to chemical plants in the lower-cost Geon® PVC body materials, and higher temperatures in those applications with Corzan® CPVC bodies.

For high purity applications such as deionized water, Series BSDA/BSDAM provides the ultimate in non-leaching, contamination-free sealing. The standard valves are air pressure to open, with "fail safe" spring return to close. Because the diaphragm is attached to the piston, no inlet pressure is required to assist with opening. The BSDA/BSDAM is not designed for vacuum service.

Features:
- Compact size with PTFE diaphragm construction.
- No metal in contact with liquid.
- Various end connections available.
- Million cycle non-sticking design.
- Various body materials available:
- Geon® PVC, Corzan® CPVC, PTFE, Kynar® PVDF, Natural unpigmented Polypropylene.
- Normally closed design
- ("fail-safe" spring to close; air to open).
- Patented Fail-Dry® vented design.
- Inlet pressures to 100 PSI

4

PVC

Size (in.)	ALSCO Part #	Price $
1/4	BSDA025T-NC-PV	274.00
1/2	BSDAM050T-NC-PV	332.00
3/4	BSDA075T-NC-PV	358.00
1	BSDAM100T-NC-PV	440.00
1 1/2	BSDA150T-NC-PV	580.00

CPVC

Size (in.)	ALSCO Part #	Price $
1/4	BSDA025T-NC-CP	428.00
1/2	BSDAM050T-NC-CP	502.00
3/4	BSDA075T-NC-CP	597.00
1	BSDAM100T-NC-CP	709.00
1 1/2	BSDA150T-NC-CP	845.00

PP

Size (in.)	ALSCO Part #	Price $
1/4	BSDA025T-NC-PP	337.00
1/2	BSDAM050T-NC-PP	388.00
3/4	BSDA075T-NC-PP	452.00
1	BSDAM100T-NC-PP	523.00
1 1/2	BSDA150T-NC-PP	754.00

PVDF

Size (in.)	ALSCO Part #	Price $
1/4	BSDA025T-NC-PF	637.00
1/2	BSDAM050T-NC-PF	744.00
3/4	BSDA075T-NC-PF	857.00
1	BSDAM100T-NC-PF	1107.00
1 1/2	N/A	N/A

PTFE

Size (in.)	ALSCO Part #	Price $
1/4	BSDA025T-NC-TF	551.00
1/2	BSDA050T-NC-TF	712.00
3/4	BSDA075T-NC-TF	800.00
1	BSDA100T-NC-TF	1072.00
1 1/2	N/A	N/A

Plast-O-Matic Balanced Air Operated Shut Off Valves - Series BSR & BSRM



Description:
Plast-O-Matic Series BSR and BSRM air operated normally closed valves are the answer for handling pure liquids, chemicals, acids, and caustics where positive, bubble-tight shut off is a prime concern, and where it is not necessary to visually see the position of the valve.

Features:
- Geon® PVC or Natural Polypro body materials in 1/2", 3/4", 1", 1½" and 2" pipe sizes
- Suitable for vacuum service* or pressure service through 150 PSI (max. inlet or outlet pressure)
- No pressure differential required.
- Compact - requires minimum space.
- Long dependable cycle life.
- Low pressure drop with high flow rates.
- Non-sticking design with bubble-tight sealing.
- Isolated spring is not in the liquid.
- Easy to install in any position with 1/4-20 mounting holes supplied.

PVC / EPDM

Size (in.)	ALSCO Part #	Price $
1/2	BSR050EP-NC-PV	297.00
3/4	BSR075EP-NC-PV	350.00
1	BSRM100EP-NC-PV	377.00
1 1/2	BSRM150EP-NC-PV	406.00
2	BSRM200EP-NC-PV	437.00

PVC / FKM

Size (in.)	ALSCO Part #	Price $
1/2	BSR050V-NC-PV	325.00
3/4	BSR075V-NC-PV	355.00
1	BSRM100V-NC-PV	382.00
1 1/2	BSRM150V-NC-PV	411.00
2	BSRM200V-NC-PV	442.00

PP / EPDM

Size (in.)	ALSCO Part #	Price $
1/2	BSR050EP-NC-PP	358.00
3/4	BSR075EP-NC-PP	386.00
1	BSRM100EP-NC-PP	415.00
1 1/2	BSRM150EP-NC-PP	447.00
2	BSRM200EP-NC-PP	481.00

PP / FKM

Size (in.)	ALSCO Part #	Price $
1/2	BSR050V-NC-PP	363.00
3/4	BSR075V-NC-PP	391.00
1	BSRM100V-NC-PP	420.00
1 1/2	BSRM150V-NC-PP	452.00
2	BSRM200V-NC-PP	486.00

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 051419

Air Operated Drain Valves

Plast-O-Matic® Air Operated Pinch Valves - Series HSA



Air operated valves “pinch” sleeve to shut off flow; ideal when slurries or particulate might prevent bubble-tight closure in a regular seat and seal design. HSA is an inline design that closes a Patent Pending articulated sleeve molded of EPDMh2, 1/2" to 1" connections of PVC, CPVC, natural polypro or PVDF.

Features:

- Breakthrough variable thickness sleeve design eliminates twisting and tearing of the pinch element.
- EPDM Sleeve tested to over 1,000,000 cycles in laboratory conditions.
- Sleeve design is ideal for slurries, chemicals, and high purity applications.
- High flow rate and bubble tight shutoff: A high-performance, clean and affordable alternative to air-operated diaphragm valve and ball valves.
- True union connections for easy installation and maintenance.
- No metal parts; safe for corrosive environments.

PVC / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-PV	HSA050EP2S-PV	239.00
3/4	HSA075EP2T-PV	HSA075EP2S-PV	285.00
1	HSA100EP2T-PV	HSA100EP2S-PV	340.00

CPVC / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-CP	HSA050EP2S-CP	297.00
3/4	HSA075EP2T-CP	HSA075EP2S-CP	358.00
1	HSA100EP2T-CP	HSA100EP2S-CP	419.00

PP / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-PP	HSA050EP2S-PP	278.00
3/4	HSA075EP2T-PP	HSA075EP2S-PP	330.00
1	HSA100EP2T-PP	HSA100EP2S-PP	363.00

PVDF / EPDMh2

Size (in.)	Threaded #	Socket #	Price $
1/2	HSA050EP2T-PF	HSA050EP2S-PF	389.00
3/4	HSA075EP2T-PF	HSA075EP2S-PF	451.00
1	HSA100EP2T-PF	HSA100EP2S-PF	678.00

4

Plast-O-Matic "Quick Dump" Air Operated Drain Valves - Series IDA



Description:

The Plast-O-Matic Quick Dump Valve is designed for use in wet benches where the liquid in the sink has to be drained as quickly as possible. The valve is cemented or fused directly into the drain, depending on the material. A spring or air-loaded piston keeps the valve closed bubble-tight with up to 25” of water. A u-cup dynamic shaft seal eliminates sticking and allows smooth, instant movement of the piston. The outflow area is designed to provide superior drainage performance.

Standard operation is normally closed (air x spring) and opened with air pressure controlled by a remote 3-way solenoid valve. When air pressure is relieved, a non-wetted internal spring automatically closes valve. 40 PSI is required to fully open the air x spring version; maximum air pressure is 80 PSI.

The valve can be ordered, or easily converted to, a double-acting (air x air) design. In the double acting design, a remote 4-way air solenoid valve is used to control air pressure to open, and air pressure to close. Air x air requires 15 PSI to open full stroke, 20 PSI to close bubble-tight against 25" of water column. The air x air version can be used for much higher head pressure by increasing the air pressure used; maximum air pressure is 80 PSI.

Features:

- Choice of double-acting air x air or normally-closed operation
- Bubble-tight seal with up to 25” of water
- Minimum 40 psi opens spring-loaded version full stroke
- Large flow area for ultra-fast drain
- Accessible maintenance, even when welded into sink
- Normally-closed design uses non-wetted, stainless steel spring

PVC / EPDM / Double Acting

Size (in.)	ALSCO Part #	Price $
4	IDA400EP-PV-AA	533.00
5	IDA500EP-PV-AA	656.00
6	IDA600EP-PV-AA	743.00

PVC / EPDM / Normally Closed

Size (in.)	ALSCO Part #	Price $
4	IDA400EP-PV-NC	558.00
5	IDA500EP-PV-NC	682.00
6	IDA600EP-PV-NC	892.00

PVC / FKM / Double Acting

Size (in.)	ALSCO Part #	Price $
4	IDA400V-PV-AA	544.00
5	IDA500V-PV-AA	668.00
6	IDA600V-PV-AA	755.00

PVC / FKM / Normally Closed

Size (in.)	ALSCO Part #	Price $
4	IDA400V-PV-NC	570.00
5	IDA500V-PV-NC	673.00
6	IDA600V-PV-NC	904.00

PP / EPDM / Double Acting

Size (in.)	ALSCO Part #	Price $
4	IDA400EP-PP-AA	576.00
5	IDA500EP-PP-AA	705.00
6	IDA600EP-PP-AA	1151.00

PP / EPDM / Normally Closed

Size (in.)	ALSCO Part #	Price $
4	IDA400EP-PP-NC	601.00
5	IDA500EP-PP-NC	743.00
6	IDA600EP-PP-NC	1164.00

PP / FKM / Double Acting

Size (in.)	ALSCO Part #	Price $
4	IDA400V-PP-AA	588.00
5	IDA500V-PP-AA	718.00
6	IDA600V-PP-AA	1126.00

PP / FKM / Normally Closed

Size (in.)	ALSCO Part #	Price $
4	IDA400V-PP-NC	612.00
5	IDA500V-PP-NC	755.00
6	IDA600V-PP-NC	1177.00

Solenoid Valves

PLAST-*O*-MATIC Series EASYMT & EASMT

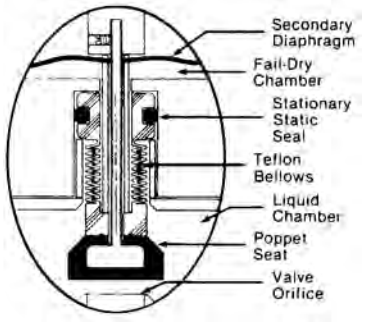
All Purpose 2-way Solenoid Valves with PTFE® Bellows Dynamic Seal



FEATURES:

- Available in PVC (standard), CPVC, PP, PVDF
- Sizes 1/4" thru 1"
- Seals are special treated Fpm
- For pressure or vacuum service
- Fail-Dry® design
- Handles virtually every solution: acids, caustics, solvents, chlorine solutions, ultra-pure liquids
- 2 million cycle design with bubble-tight sealing
- Unique PTFE Bellows flexes to provide barrier type dynamic seal and eliminate leaking to atmosphere

PTFE Bellow Assembly



4

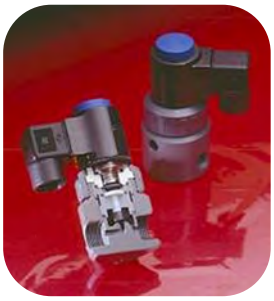
Specification: PVC - 120 Volt - AC coil

Series	Pipe Size	Orifice Size	Watts	Cv	Max. Inlet Pressure	Max. Back Pressure	Part #	Price $
EASYMT	1/4	3/8	20	1.1	140	38	0978	522.00
EASYMT	1/2	3/8	20	1.1	140	38	0979	530.00
EASMT	1/2	3/8	20	2.1	125	18	0980	557.00
EASMT	3/4	1/2	20	3.1	58	17	0981	585.00
EASMT	1	11/16	20	4.6	15	12	0982	637.00

Pricing for PVC only with W 20 coil, other options available. EPDM Seals are available. Add -EP to end of part number. Pricing is the same.

PLAST-*O*- MATIC New Series EAST PTFE® Bellows

Compact, Economical, Direct Acting, Solenoid Valves



Features:

- Compact: Only 4 9/16" high. • Economical: Low unit cost with high pressure ratings and flow rates (Cv of 0.5).
- Superior Performance: 2,000,000 cycle design • Patented Fail-Dry® safety design.
- Available in PVC, PP and PVDF with EPDM or Fpm • 1/4" & 1/2" pipe sizes with 3/16" & 1/4" orifice.
- High Pressure: Particularly for applications where high back-pressure (up to 90 PSI) are required e.g. controlling flow to spray nozzles, high pressure chemical injections, etc. Inlet pressure to 140 PSI.
- Versatility: Can be used with all type solutions. Includes acids, caustics, solvents, chlorine solutions and ultra-pure liquids. For pressure, drain or vacuum service.
- Energy Efficient: Molded 11 watt NEMA 4 style coil with DIN std. connector results in low energy consumption.

	Size (in.)	PVC EPDM/Fpm® Part #	Price $
3/16" orifice	1/4	0343-002-EP	344.00
	1/4	0343-002-V	358.00
	1/2	0343-005-EP	349.00
	1/2	0343-005-V	363.00
1/4" orifice	1/4	0349-002-EP	346.00
	1/4	0349-002-V	360.00
	1/2	0349-005-EP	351.00
	1/2	0349-005-V	365.00

	Size (in.)	Nat. PP EPDM/Fpm® Part #	Price $
3/16" orifice	1/4	0344-002-EP	377.00
	1/4	0344-002-V	393.00
	1/2	0344-005-EP	381.00
	1/2	0344-005-V	397.00
1/4" orifice	1/4	0350-002-EP	379.00
	1/4	0350-002-V	395.00
	1/2	0350-005-EP	386.00
	1/2	0350-005-V	401.00

	Size (in.)	PVDF EPDM/Fpm® Part #	Price $
3/16" orifice	1/4	0345-002-EP	686.00
	1/4	0345-002-V	714.00
	1/2	0345-005-EP	691.00
	1/2	0345-005-V	718.00
1/4" orifice	1/4	0351-002-EP	689.00
	1/4	0351-002-V	716.00
	1/2	0351-005-EP	693.00
	1/2	0351-005-V	721.00

Coil Types and Specifications:

100 % Duty Cycle	Inter-mittent	
G20	G58	G20 (20 watt coil) and G58 (58 watt coil) - General purpose, enclosures have pressed steel housing epoxy coated for general purpose NEMA 1 Rated - indoors and where atmospheric conditions are not a problem.
W20		W20 (20 watt coil) - Water and dust tight polyester enclosures suited for corrosive atmospheres. The coil comes standard with an unlighted 1/2" NPT female external connector assembly. Meets NEMA 4 requirements.
E20	E58	E20 (20 watt coil) and E58 (58 watt coil) - explosion proof and water tight enclosure of die cast aluminum or pressed steel epoxy coated. They meet NEMA-7 requirements for class 1hazardous locations, group C and D atmospheres containing volatile gases and fumes. Also, they meet NEMA 9 for class 2 hazardous locations consisting of atmospheres of explosive metallic dust (group E), carbon black, coal or coke dusts (group F) and flour, starch or grain dusts (group G). Contact an ALSCO Sales Consultant for pricing.

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Solenoid Valves

Plast-O-Matic® Pilot Operated Solenoid Valves - Series PS



Features:

- Normally closed, in-line design with bubble-tight shut-off.
- High pressures: Particularly for applications where high back-pressures (up to 70 PSI) are required e.g. controlling flow to spray nozzles, high pressure chemical injections, etc. Inlet pressure to 140 PSI.
- High flow rates - Cv's from 5.2 on the 1/2" size to 80 on the 3" size.
- Unique design: PTFE® Bellows barrier type dynamic seal prevents leaking of fugitive emissions.
- Safety/Dependability: Patented Fail-Dry® safety design feature provides advance visual warning if seal malfunctions, while permitting valves to continue operating until maintenance can be scheduled.
- Cycle life in excess of 1,000,000 cycles.
- Versatility: Can be used with all type solutions including acids, caustics, solvents, and chlorine solutions.
- Rugged thermoplastic construction is resistant to both internal & atmospheric corrosion. No metal parts in wetted areas.
- Positive valve closure in the event of electrical failure.
- Energy-efficient 11 watt coil.
- Sizes: 1/2", 3/4", 1", 1 1/2", 2", & 3" with EPDM or Fpm seals
- Molded coil and standard DIN connector; designed to meet NEMA 4X.

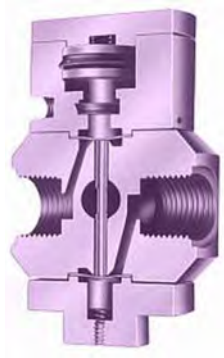
PVC Pilot Operated Solenoid Valves with PTFE Bellows - Series PS

Pipe Size (in.)	Max. Inlet Pressure*	Min. Inlet Pressure	Max. Outlet Pressure	Minimum Differential	EPDM #	Price $	FKM #	Price $
1/2	140	5	70	5	4530-EP	591.00	4530-V	609.00
3/4	140	5	70	5	4531-EP	615.00	4531-V	632.00
1	140	5	70	5	4532-EP	639.00	4532-V	662.00
1 1/2	140	5	70	5	4533-EP	895.00	4533-V	919.00
2	140	5	70	5	4534-EP	990.00	4534-V	1014.00
3	140	5	70	5	4535-EP	1761.00	4535-V	1790.00

* Maximum Inlet Pressure @ 75°F (24°C).

Note: CPVC (CORZAN™), PP, & PVDF available, contact sales office.

Plast-O-Matic® 3-Way Air Operated Diverter Valves - Series TUCA



Application:

Valves are used to divert flows from a common inlet to either of two outlets. They can also be used in reverse to feed flows from two lines into a common outlet; however, this reverse application can only be used with inlet pressures less than 15 PSI (1,0 BAR). They are commonly recommended for handling corrosive or ultra-pure liquids. Compressed air 30 to 100 psi is required to operate Series TUCA. Air should be filtered and lubricated.

Features:

- Available in PVC, Nat. PP, PTFE and PVDF with EPDM, Buna-N or Fpm seals
- Double diaphragm design
- Non-sticking design with bubble-tight seal
- Compact size; 1/4" NPT is under 4" height
- Available in a variety of body & seal material
- Simple and inexpensive method of diverting sampling harsh chemicals
- Can be used as a selector valve, switching flow between two different "inlets"

Miniature Air Operated Diverter Valves / PVC / Fpm - Series TUCA

Pipe Size (in.)	Orifice Size (in.)	Watts	Cv	Max. Inlet Pressure	Max. Back Pressure	ALSCO #	Price $
1/4	1/4	20	.4	50	22	1003	473.00
1/2	1/4	20	.4	50	22	1006	504.00

Note: Pricing above is for PVC with Fpm seals. PP, PTFE and PVDF with EPDM or Buna-N seals also available.

Plast-O-Matic® 3-Way Solenoid Valves - Series THP



Direct-acting Series THP is a multi-purpose valve suitable for inlet and back pressures to 100 PSI; it can function as a three-way, normally-open, or normally-closed valve. THP is available in 1/4" and 1/2" sizes in PVC.

Features:

- Balanced shaft design permits higher pressures.
- Bubble-tight sealing.
- No metal parts in wetted area.
- Patented Fail-Dry™ safety design provides warning of seal failure while allowing valve to continue functioning.

PVC / FKM or EPDM

Pipe Size (in.)	Orifice Size (in.)	FKM #	EPDM #	Price $
1/4	1/8	THP2V4W24-PV	THP2EP4W24-PV	884.00
1/4	3/16	THP2V6W24-PV	THP2EP6W24-PV	884.00
1/4	1/4	THP2V8W24-PV	THP2EP8W24-PV	884.00
1/2	1/8	THP4V4W24-PV	THP4EP4W24-PV	884.00
1/2	3/16	THP4V6W24-PV	THP4EP6W24-PV	884.00
1/2	1/4	THP4V8W24-PV	THP4EP8W24-PV	884.00

ASCO Slow Closing 2-Way Solenoid Valves - Series 8221



Solenoid pilot operated valves available in normally closed and normally open constructions. Available either AC or DC operated with brass bodies. Designed to effectively reduce damage caused by water hammer.

Features:
- Pilot operated, normally open or normally closed
- Snubber slows disc closing speed to protect system against water hammer damage more effectively than other techniques
- Pressure spike due to water hammer is reduced to a point eliminating the need for suppressors or other controls in most water systems
- Fluid Controls Institute Inc. evaluations have classified these valves: 3/8", 1/2", and 3/4" FCI-82-1 Class CC and 1", 1-1/4", 1-1/2", 2", and 2-1/2" FCI-82-1 Class BB

Materials of Construction:
- Body: Brass
- Disc: NBR
- Seals: PTFE and NBR
- Core Tube: 305 Stainless Steel
- Core and Plugnut: 430F Stainless Steel
- Springs: 302 Stainless Steel
- Piston: Stainless Steel or Brass
- Shading: Coil Copper

Solenoid Enclosures:
- Standard: RedHat II - Watertight, Types 1, 2, 3, 3S, 4, and 4X; RedHat - Type I.
- Optional: RedHat II - Explosion Proof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9; RedHat - Explosionproof and Raintight, Types 3, 7, and 9.

Nominal Ambient Temp. Ranges:
- RedHat II / RedHat AC: 32°F to 125°F (0°C to 52°C)
- RedHat II DC: 32°F to 104°F (0°C to 40°C)
- DC: 32°F to 77°F (0°C to 25°C) (104°F/40°C occasionally)

Approvals:
- CSA certified (Excludes 8221G015, -035, -G035)
- UL listed, General Purpose Valves
- RedHat II meets applicable CE directives

Note: Other sizes and configurations available.

POA: Price on Application
Contact sales department at 1-800-849-3030.

ASCO Slow Closing 2 Way Solenoid Valve - Series 8221 - Normally Closed - 120/60VAC

Pipe Size (in.)	Orifice Size (in.)	Cv Flow Factor	Min PSI Water	Max PSI Water	Max. Fluid Temp. (°F)	Watt Rating / Class of Coil Insulation	Part #
3/8	9/16	3	5	150	180	6.1 / F	AS8221G001
1/2	9/16	3.5	5	150	180	6.1 / F	AS8221G003
3/4	3/4	5.5	5	150	180	6.1 / F	AS8221G005
1	1	11.5	5	150	180	6.1 / F	AS8221G007
1 1/4	1 1/8	13	5	150	180	6.1 / F	AS8221G009
1 1/2	1 1/4	24	5	150	180	6.1 / F	AS8221G011
2	1 3/4	36	5	150	180	6.1 / F	AS8221G013
2 1/2	1 3/4	38	5	150	180	6.1 / F	AS8221G015*

*Not CSA certified.

Jefferson Slow Closing Anti-Water Hammer Solenoid Valves



Features:
- Specifically designed to eliminate water hammer.
- Brass or stainless steel body.
- Normally closed and normally open.
- Seats and Buna N seals.
- Encapsulated coils DIN PG9 electrical connection or metal conduit R. 1/2" NPT.

Applications:
- Water and other liquids of low viscosity.
- Hydraulic systems where, given the fluid's speed, the upstream pipeline's length and its quick-closing system, a water hammer capable of damaging or breaking pipelines, instruments and accessories and/or causing intolerable noises and vibrations may be produced.

Recommendations for Installation:
Place a strainer upstream of the valve with a porosity ≤ 100 µ. Mount the valve only over horizontal pipeline with the coil upright. The inlet pressure to the valve must always be greater than the output pressure thereof. For the valve to open, either normally closed or normally open, one must respect the minimum pressure indicated on each model.

Jefferson Slow Closing Anti-Water Hammer Solenoid Valve / Normally Closed / Brass Body / Buna N / DIN PG9

Pipe Size (in.)	Orifice Size (in.)	Cv Flow Factor	Weight (Lb)	Min PSI Water	Max PSI Water (NC)	Max PSI Water (NO)	Max. Fluid Temp. (°F)	120 VAC Part #	24 VDC Part #	Price $
3/4	0.79	5.9	2.6	3	225	150	176	1342BA06TCL120VAC	1342BA06TCL24VDC	334.00
1	1.02	13	3.8	3	225	150	176	1342BA08TCL120VAC	1342BA08TCL24VDC	401.00
1 1/2	1.50	29	6.8	3	225	150	176	1342BA12TCL120VAC	1342BA12TCL24VDC	606.20
2	1.97	47	9.0	3	225	150	176	1342BA16TCL120VAC	1342BA16TCL24VDC	719.30

NOTE: Other options and configurations available. POA - Price On Application. Contact Sales Department at 1-800-849-3030.

ALSCO™ Solenoid & Pressure Relief Valves

HAYWARD® True Union Solenoid Valves - NPD Design



No Pressure Differential Design... For maximum application flexibility these heavy duty solenoid valves have been designed so that no pressure differential is needed for them to operate reliably. Their unique design eliminates problems such as sticking and “chattering”, due to system pressure differentials, that can effect ordinary solenoid valves. And their performance is not effected by downstream restrictions caused by nozzles, flowmeters or other equipment, a real benefit in these types of applications. The valves will operate with up to 40 psi of back pressure and up to 120 psi of inlet pressure. There are no minimum pressure requirements. Normally Closed Operation... When electric power is applied to the solenoid, the electromagnetic coil is energized, opening the valve. When the coil is de-energized, the valve closes. Unique Seal Cartridge... It is easy to replace seal cartridge. No fumbling with small parts and o-rings to replace worn seals. Just install the one-piece cartridge. It contains the plunger assembly and all the seals. The valve is ready to be put back into service.

Features

- **PVC or CPVC Construction, Socket & Threaded Ends**
- **Multi-Position Electric Connections**
- **FPM or EPDM seals**
- **Continuous 100% duty**
- **Corrosion resistant**
- **Polyester Coil**
- **Connects to 1/2” conduit or S-J type cord**
- **110 VAC Standard**
- **Normally Closed Operation**
- **Pressure Rating: 120 psi @ 70°F non-shock**

Options

- **12 VAC / VDC**
- **24 VAC / VDC**
- **220 VAC**

NOTE: For optimum Solenoid Valve performance, inlet pressure must not exceed 120 psi. Flow rate should not exceed 5 feet per second.

Size (in.)	PVC/FPM soc./thr. Part #	Price $
1/2	4060-005	$383.60
3/4	4060-007	$521.80
1	4060-010	$570.80

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
1/2	4061-005	$374.35
3/4	4061-007	$508.65
1	4061-010	$554.05

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
1/4	4062-002	$413.90
1/2	4062-005	$413.90
3/4	4062-007	$561.55
1	4062-010	$606.65

Size (in.)	CPVC/EPDM soc./thr. Part #	Price $
1/4	4063-002	$402.55
1/2	4063-005	$402.55
3/4	4063-007	$540.90
1	4063-010	$589.80

Anti-Syphon/Back Pressure and Pressure Relief Valves



E90068



BPR-3-PP-N



BPR-5-PP-N

These rugged valves are constructed from PVC, PP, PVDF, or SS components to ensure long life and reliability. The spring loaded PTFE faced diaphragms provide positive discharge pressure to stabilize pump output and prevent syphoning. Fixed valves are pre-set to open at approximately 30 PSI and no further adjustment should be necessary. All adjustable valves are screw adjustable from 0 to 150 PSI.

Fixed Valves

Connector Size (in.)	Valve Material	Part #
1/2 NPT/Union	PVC/PTFE	8011-C
1/2 NPT/Union	PP/PTFE	8011-CP
1/2 NPT/Union	PVC	E90068
1/2 NPT/Union	PP	E90069
3/8 NPT/Union	PP	E90198
3/8 NPT/Union	PVC	E90199
1/2 NPT	PVC	E90340

POA - Price On Application

Adjustable Valves

Connector Size (in.)	Valve Material	Part #
1/4 NPT	PVC	BPR-3-PVC-N
1/4 Union	PVC	BPR-3-PVC-U
1/4 NPT	PP	BPR-3-PP-N
1/4 NPT	PVDF	BPR-3-PVDF-N
1/4 NPT	SS	BPR-3-SS-N
1/2 NPT	PVC	BPR-5-PVC-N
1/2 Union	PVC	BPR-5-PVC-U
1/2 NPT	PP	BPR-5-PP-N
1/2 NPT	PVDF	BPR-5-PVDF-N
1/2 NPT	SS	BPR-5-SS-N
3/4 NPT	PVC	BPR-7-PVC-N
3/4 Union	PVC	BPR-7-PVC-U
3/4 NPT	PVDF	BPR-7-PVDF-N
3/4 NPT	SS	BPR-7-SS-N
1 NPT	PVC	BPR-1-PVC-N
1 Union	PVC	BPR-1-PVC-U
1 NPT	PVDF	BPR-1-PVDF-N
1 NPT	SS	BPR-1-SS-N

POA - Price On Application

Manifold Flange Connections

Banjo Manifold Flange Connections

NO THREADS.
NO SWEAT.



Smart. The quick–change connection allows you to replace or inspect fittings in seconds as opposed to time consuming threaded liquid handling systems.

Easy to Use. There is no pipe thread installation, no chance of cross threading, no pipe sealant and no cure time needed.

Versatile. By nature of the connection – it is easier to redesign, alleviate space constraints and add pieces to your liquid handling system.

Universal. Replaces fittings made with either traditional National Pipe Thread (NPT) or British Standard Pipe Thread (BSP) connections. So no matter what part of the world you live in, you too can use Banjo Manifold Connections.

Breadth. Banjo Manifold Connections are available in Electric Valves, 3-Way Valves, Bolted Ball Valves, Stubby Valves, Dry-Disconnects, Flow Meters, Sweeps, Line Strainers, Hose Barbs, Couplings, Fittings, Swivels, Tank Fittings and Pumps.

4



Original System



Updated System

1” Electric Manifold Valve Assemblies - M200 Series



3 Valve Manifold

1” Electric Manifold Valve Assemblies - M200 Series

Valves	Description	Max PSI	Pipe Size	Mfg Part #	Price $
2	1" Manifold Valve Assembly 2" Inlet Flanges, 1" Outlet Flanges	150	2" In 1" Out	MEV102CF	750.21
3	1" Manifold Valve Assembly 2" Inlet Flanges, 1" Outlet Flanges	150	2" In 1" Out	MEV103CF	1107.74
3	1" Manifold Valve Assembly 2" Inlet Flanges, 1" Outlet Flanges w/ Mounting Brackets	150	2" In 1" Out	MEV103MB	1138.48
4	1" Manifold Valve Assembly 2" Inlet Flanges, 1" Outlet Flanges	150	2" In 1" Out	MEV104CF	1497.33
5	1" Manifold Valve Assembly 2" Inlet Flanges, 1" Outlet Flanges	150	2" In 1" Out	MEV105CF	1887.24

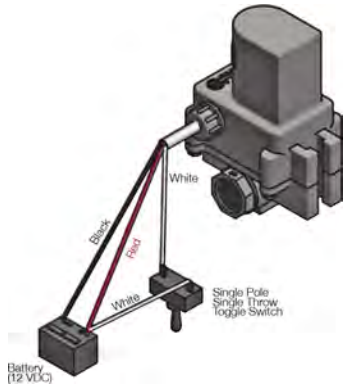
1” Micro Manifold Valve





Features:
- 90° rotating handle.
- Maximum operating pressure 300 PSI
- Precision molded polypropylene is reinforced with fiberglass for additional strength.
- Standard FKM seats and O-rings.

Electric Features:
- 12 Volt DC
- Maximum operating pressure 200 PSI
- Stationary current draw: less than 0.04 amps.
- Rotating current draw: less than 0.40 amps.
- Stall current: 0.75 amps
- Response time: 1/3 sec open to close
- TFM seats
- EPDM seals
- Fiberglass reinforced polypropylene ball.
- Integrated mounting slot
- Standard 3 wire configuration.



1" Micro Manifold Valve

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Micro Manifold Valve	300	1”	1/2”	MLV100V	12.93
1" Micro Electric Manifold Valve	200	1”	1/2”	MLEV100	146.09

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Manifold Flange Connections

1", 2" and 3" Electric Manifold Valves



1" and 2" Valves

Features:
- 1"-2" has 316 stainless steel ball & stem.
- 3" has poly ball & stainless steel stem.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM or EPDM O-rings.
- 12-volt DC operated.
- 150 P.S.I. maximum pressure.
- Internally fused/automatic reset.
- Open/closed indicator.



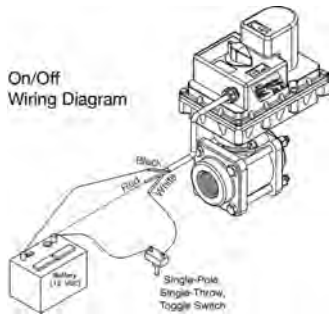
3" Valve

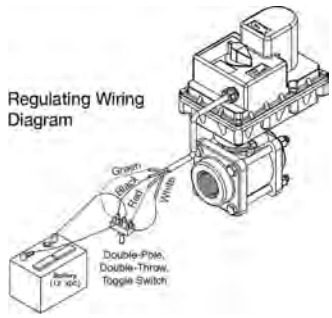
1", 2" and 3" On/Off Electric Manifold Valves
3/4 to 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Full Port Electric Valve	150	1"	1"	MEV100CF	359.85
2" Standard Port Electric Valve	150	2"	1 1/2"	MEV200CF	527.49
2" Full Port Electric Valve	150	2"	2"	MEV220CF	556.79
3" Full Port Electric Valve	100	3"	3"	MEV300CF	1518.28

1" and 2" Regulating Electric Manifold Valves
4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Full Port Electric Valve	150	1"	1"	MEVR100CF	498.19
2" Standard Port Electric Valve	150	2"	1 1/2"	MEVR200CF	627.13
2" Full Port Electric Valve	150	2"	2"	MEVR220CF	662.28





3-Way Side Load and Bottom Load Electric Manifold Valves



SIDE LOAD:
Directional flow left or right.
Valve flow cannot be turned off.

Features:
- 316 stainless steel ball & stem.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM or EPDM O-rings.
- 12-volt DC operated.
- 150 P.S.I. maximum pressure.
- Internally fused/automatic reset.
- Open/closed indicator.



BOTTOM LOAD:
No regulating valve available for 3-way bottom load electric manifold valves.

1" and 2" Side Load Electric Manifold Valves
3/4 to 1 1/4 Second Response Time

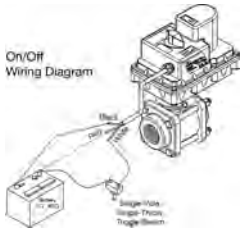
Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Full Port Electric Valve	150	1"	1"	MEV100SLCF	404.40
2" Standard Port Electric Valve	150	2"	1 1/2"	MEV200SLCF	627.13
2" Full Port Electric Valve	150	2"	2"	MEV220SLCF	627.13

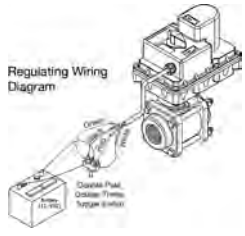
1" and 2" Regulating Side Load Electric Manifold Valves
4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Full Port Electric Valve	150	1"	1"	MEVR100SLCF	504.05
2" Standard Port Electric Valve	150	2"	1 1/2"	MEVR200SLCF	608.84
2" Full Port Electric Valve	150	2"	2"	MEVR220SLCF	732.59

1" and 2" Bottom Load Electric Manifold Valves
3/4 to 1 1/4 Second Response Time

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Full Port Electric Valve	150	1"	1"	MEV100BLCF	404.40
2" Standard Port Electric Valve	150	2"	1 1/2"	MEV200BLCF	627.13
2" Full Port Electric Valve	150	2"	2"	MEV220BLCF	627.13





Manifold Flange Connections

Manifold Pressure Spike Valves



Features:
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Preset pressure spring.
- Poppet is diamond turned, after molding, to make it spherically perfect, which provides precise seal.
- 360° Orientation.
- FKM seals.

Manifold Pressure Spike Valves

Description	Max PSI	Mfg Part #	Price $
1" Pressure Spike Valve	50	MPRV100-050	67.20
1" Pressure Spike Valve	75	MPRV100-075	67.20
1" Pressure Spike Valve	100	MPRV100-100	61.87
1" Pressure Spike Valve	125	MPRV100-125	61.87
1" Pressure Spike Valve	150	MPRV100-150	61.87

Manifold Bolted Ball Valves - 4 and 6 Bolt Valves

4





Features:
- FKM seals.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.

Manifold 4" and 6" Bolted Ball Valves

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Flange Ball Valve	150	1"	1"	MV100CF	32.92
2" Flange Ball Valve	150	2"	1 1/2"	MV200CF	46.59
2" Full Port Flange Ball Valve	150	2"	2"	MV220CF	62.09
3" Standard Flange Ball Valve	100	3"	2 1/2"	MV300	101.94
3" Full Port Flange Ball Valve	100	3"	3	MV300CF	147.76

Manifold Bolted 5-Way Ball Valve





Features:
- FKM seals.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Precision molded in polypropylene. Polypropylene is reinforced with fiberglass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation. The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.

Electric Features:
- 12 Volt DC operated.
- 3 Second per quarter turn cycle time.
- Stainless steel ball and stem.

Manifold Bolted 5 Way Valve

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" Full Port Flange 5 Way Valve	150	2"	2"	MV225CF	294.49
2" Full Port Electric Flange 5 Way Valve	300	2"	2"	MEV225CF	1186.19

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Manifold Flange Connections

2” Standard & Full Port Manifold “Stubby” Valves



VSMT200CF



VSF200CF



MVS220FP



MVSF220FP



MVS220CF



MVSMT220FP

Features:
- Stainless steel bolts.
- Glass reinforced polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F., 75 P.S.I. @ 150°F.

2” Standard Port Manifold Stubby Valves

Description	Port	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" Flange x 2" Male NPT	STD	100	2”	1 1/2”	VSMT200CF	54.28
2" Flange x 2" Male Adapter	STD	100	2”	1 1/2”	VSF200CF	46.59

2” Full Port Manifold Stubby Valves

Description	Port	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" FP Flange x 2" Female NPT	Full	100	2”	2”	MVS220FP	67.48
2" FP Flange x 2" Male Adapter	Full	100	2”	2”	MVSF220FP	56.24
2" FP Flange x 2" FP Flange	Full	100	2”	2”	MVS220CF	56.24
2" FP Flange x 2" Male NPT	Full	100	2”	2”	MVSMT220FP	56.24

2” Full Port Stainless Steel Manifold “Stubby” Valves



MVS220HSFP



MVSF220HSFP



MVSMT220HSFP

Features:
- Stainless steel bolts.
- Glass reinforced polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F., 75 P.S.I. @ 150°F.

2” Full Port Manifold Stubby Valves W/SS

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" FP Flange x 2" FP Flange	100	2”	2”	MVS220HSFP	139.86
2" FP Flange x 2" Male Adapter	100	2”	2”	MVSF220HSFP	147.65
2" FP NPT x 2" Male Flange	100	2”	2”	MVSMT220HSFP	147.65



MVSF220SS

Features:
- 100% PTFE ball seats.
- Unique compact design.
- All TFE seals. No elastomers.
- 1000 P.S.I. maximum



VSFMT220SS

2” Full Port Manifold Stainless Steel Stubby Valves

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" FP Flange x 2" FP Flange with SS Ball, Stem & Handle	1000	2”	2”	MVS220SS	242.14
2" FP Flange x 2" Male Adapter Stainless Steel Stubby Valve	1000	2”	2”	MVSF220SS	242.14
2" FP Male NPT x 2" FP Flange Stainless Steel Stubby Valve	1000	2”	2”	MVSMT220SS	242.14

2” Full Port Stainless Steel Stubby Valve

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
2" FP Male Adapter x 2" NPT Stainless Steel Stubby Valve	1000	2”	2”	VSFMT220SS	282.35

Manifold Flange Connections

3” Standard & Full Port Manifold “Stubby” Valves



MVSF300



MVSF300FP



MVSMT300



MVS300CF



MVS300CFFP

Features:
- Stainless steel bolts.
- Glass reinforced polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F., 75 P.S.I. @ 150°F.

3” Manifold Stubby Valves

Description	Port	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3" Flange x 3" Male Adapter	STD	100	3”	2 1/2”	7055	101.73
3" FP Flange x 3" Male Adapter	Full	100	3”	3”	MVSF300FP	143.92
3" Flange x 3" Male NPT	STD	100	3”	2 1/2”	7056	105.93
3" Flange x 3" Flange	STD	100	3”	2 1/2”	MVS300CF	114.97
3" FP Flange x 3" FP Flange	Full	100	3”	3”	MVS300CFFP	140.64

3” Full Port Stainless Steel Manifold “Stubby” Valves



MVS300HSFP



MVSF300HSFP



MVSMT300HSFP

Features:
- Stainless steel bolts.
- Glass reinforced polypropylene.
- Multiple design options.
- Unique patented compact design.
- Lightweight.
- Maximum operating pressure 100 P.S.I. @ 70°F., 75 P.S.I. @ 150°F.

3” Full Port Manifold Stubby Valves W/SS

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
3" FP Flange x 3" FP Flange	100	3”	3”	MVS300HSFP	262.10
3" FP Flange x 3" Male Adapter	100	3”	3”	MVSF300HSFP	276.70
3" FP Flange x 3" Male NPT	100	3”	3”	MVSMT300HSFP	276.70

All prices subject to change without notice.

Manifold Flange Connections

Single Union Polypropylene Ball Valve



Features:
- Precision molded in glass reinforced polypropylene, for strength and chemical resistance.
- PTFE seats for smooth operation and proper sealing characteristics.
- EPDM O-rings to handle most fertilizers and many chemicals.
- Double O-rings in stem area for extra sealing protection.
- Interlocking body and end plate to allow easy thread connection when installing valves.
- Maximum operating pressure 100 P.S.I. at 70°F.

Manifold Single Union Polypropylene Ball Valve

Description	Max PSI	Pipe Size	Opening Thru Ball	Mfg Part #	Price $
1" Manifold Full Port Union Valve	100	1"	1"	MSUV100FP	19.08

3-Way Manifold Ball Valves







Features:
- Stainless steel bolts.
- Precision molded in polypropylene. Polypropylene is reinforced with fiber glass for additional strength.
- Self-aligning ball moves freely against the PTFE seats for smooth operation.
- The valve opens and closes with very little pressure on the handle.
- Ball is diamond turned, after molding, to make it spherically perfect, which provides precise contact between ball and seats.
- PTFE self-lubricating stem bushings and seats cannot stick or bind.
- Maximum operating pressure 100 P.S.I.
- FKM seals.

4 Bolt Bottom Load Manifold Valves

Description	Max PSI	Flange Size	Opening Thru Ball	Handle Type	Mfg Part #	Price $
1" Manifold Flanged Valve	100	1"	1"	T	MV100BL	51.82
2" Manifold Flanged Valve	100	2"	1 1/2"	T	MV200BL	55.75
2" Full Port Manifold Flanged Valve	100	2"	2"	Straight	MV220BL	88.27

6 Bolt Bottom Load Manifold Valves

Description	Max PSI	Flange Size	Opening Thru Ball	Handle Type	Mfg Part #	Price $
3" Full Port Manifold Flanged Valve	100	3"	3"	Straight	MV300BL	236.62

4 Bolt Side Load Manifold Valves

Description	Max PSI	Flange Size	Opening Thru Ball	Handle Type	Mfg Part #	Price $
1" Manifold Flanged Valve	100	1"	1"	T	MV100SL	51.82
2" Manifold Flanged Valve	100	2"	1 1/2"	Straight	MV200SL	67.01
2" Full Port Manifold Flanged Valve	100	2"	2'	Straight	MV220SL	88.27
2" Full Port Manifold Flanged Valve	100	2"	2'	T	MVT220SL	88.27

Manifold Dry Disconnect



Male Female

Features:
- Lightweight.
- Unrestricted flow.
- Minimal fluid spillage.
- Easy to use.
- Economical.
- Reduces risk of exposure.
- Wide range of chemical resistance.
- Cannot be uncoupled in open position.
- Handles cannot be opened after male and female are separated.
- 100 P.S.I. maximum operating pressure.

DRY MATE® patented

Manifold Dry-Mate Disconnect with FKM Seals

Description	Max PSI	Flange Size	Opening Thru Ball	Mfg Part #	Price $
2" Flanged Male	100	2"	1 1/2"	DM200ACF	180.11
2" Flanged Female	100	2"	1 1/2"	DM200DCF	192.51
3" Flanged Male	100	3"	3"	DM300ACF	322.95
3" Flanged Female	100	3"	3"	DM300DCF	360.95

Manifold Flange Connections

Manifold Inductor System

Draws wettable powders or liquids from inductor tank for thorough chemical mixing!

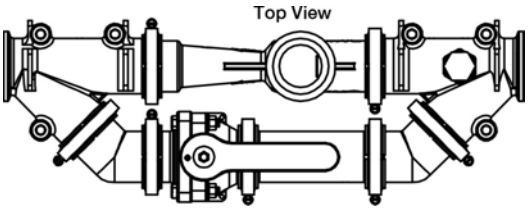


Features:
- Installed after pump; suction completely empties inductor tank.
- Keeps tank free of chemicals.
- 2" & 3" full port flow.
- Easy assembly/installation with manifold connections.

Note: Tank not included.

Manifold Inductor System

Description	Mfg Part #	Price $
2" Full Port Flange x Flange-Assembled	MIS220	406.98
3" Flange x Flange-Assembled	MIS300	779.83



Flow Meters





Flow Meters

Description	GPM	Mfg Part #	Price $
1" Full Port Female NPT Flow Meter	110	FM100	883.43
1" Full Port Manifold Flow Meter	110	MFM100	883.43
2" Full Port Manifold Flow Meter	300	MFM220	1003.79
3" Full Port Manifold Flow Meter	670	MFM300	1259.81

Features:
- Displays overall total volume & batch total volume!
- Flow rate allows for Gallons or Liters Per Minute.
- The display reads 6 digits for Rate, 8 digits for Total and 1 decimal place reading in tenths.
- Magnetic style meter with stainless steel electrodes.
- Self calibrating meter.
- Measures water and most conductive liquids. Will not read petroleum based liquids.
- Easy to change six (6) AA batteries.
- No moving parts to fail during use.
- Glass-reinforced polypropylene.
- Temperature range from 0° F to 150° F.
- Maximum pressure 150 PSI.
- Accuracy is 99% from 2 to 110 GPM for 1".
- Accuracy is 99% from 6 to 300 GPM for 2".
- Accuracy is 99% from 14 to 670 GPM for 3".



Note: It is recommended to have at least 10x the diameter of straight pipe before and after the flow meter.

Polypropylene Inductors



MHV200
MHV220A



HV150
HV200

Features:
- Threaded or manifold ends.
- Glass reinforced polypropylene.
- 1 1/2" & 2" sizes available.

Polypropylene Inductors

Description	PSI at Pump	Volume Draw	Opening Size	Mfg Part #	Price $
1 1/2" MPT Poly Inductor	50	37 GPM	5/16"	HV150	101.30
2" MPT Poly Inductor	50	49 GPM	7/16"	HV200	106.94
2" Manifold Poly Inductor with 1 1/2" Port	50	37 GPM	5/16"	MHV200	98.02
2" FP Manifold Poly Inductor	50	49 GPM	9/16"	MHV220A	98.51

Manifold Flange Connections

Sweeps

Features:
- Direct replacement for standard 90° flanged couplings.
- Positive seals.
- Quick & easy assembly.
- Easy On/Off hose connections.
- 360˚ Orientation.
- 1" & 2" fittings pressure to 150 P.S.I. at 70°F.
- 3" fittings pressure to 125 P.S.I. at 70°F.


M100125BRBSWP90


M100BRBSWP90


M100SWP90


M200SWP90


M220200SWP90


M220ASWP90


M220BRBSWP90


M220MPTSWP90


M220SWP90


M220SWP90SS


M300ASWP90


M300BRBSWP90


M300MPTSWP90


M300SWP90


M100125BRBSWPG90


M100BRBSWPG90


M100SWPG90


M300ASWPG90


M300MPTSWPG90


M300SWPG90

Sweeps

Description	Mfg Part #	Price $
1" Flange x 1 1/4" Hose Shank Sweep	M100125BRBSWP90	12.99
1" Flange x Hose Shank Sweep	M100BRBSWP90	11.49
1" Flange x Flange Sweep	M100SWP90	10.56
2" Flange x Flange Sweep	M200SWP90	12.00
2" Full Port Flange x 2" Flange Sweep	M220200SWP90	12.96
2" Full Port Flange x Male Adapter Sweep	M220ASWP90	11.08
2" Full Port Flange x Hose Shank Sweep	M220BRBSWP90	26.15
2" Full Port Flange x Male NPT Thread Sweep	M220MPTSWP90	12.18
2" Full Port Flange x Flange Sweep	M220SWP90	11.08
2" Full Port SS Flange x Flange Sweep	M220SWP90SS	86.84
3" Flange x Male Adapter Sweep	M300ASWP90	55.92
3" Flange x Hose Shank Sweep	M300BRBSWP90	50.84
3" Flange x Male NPT Thread Sweep	M300MPTSWP90	55.92
3" Flange x Flange Sweep	M300SWP90	50.84

Sweeps with 1/4" Gauge Port

Description	Mfg Part #	Price $
1" Full Port Flange x 1 1/4" Hose Shank Sweep	M100125BRBSWPG90	11.32
1" Full Port Flange x 1" Hose Shank Sweep	M100BRBSWPG90	11.95
1" Flange x Flange Sweep	M100SWPG90	13.14
3" Flange x Male Adapter Sweep	M300ASWPG90	50.84
3" Flange x Male NPT Thread Sweep	M300MPTSWPG90	50.84
3" Flange x Flange Sweep	M300SWPG90	55.92

Manifold Flange Connections

Boom Nozzle Pipe Adapter







Features:
- Eliminates having to thread pipe.
- Quick and easy assembly.
- No welding necessary.
- 360° orientation.

Boom Nozzle Pipe Adapter

Description	Mfg Part #	Price $
1" Flanged Pipe Adapter	M100PA	36.47
1" Flanged Pipe Adapter Cap	M100PAC	37.89
1" Flanged Pipe Adapter Tee	M100PAT	40.55

Banjo Manifold Fittings

4

Features:
- Positive seals.
- Quick & easy assembly.
- Easy On/Off hose connections.
- 360˚ Orientation.
- 1" & 2" fittings pressure to 150 P.S.I. at 70°F.
- 3" fittings pressure to 125 P.S.I. at 70°F.



Flanged Poly Check Valves

Description	Max PSI	Flow	Mfg Part #	Price $
1" Flanged Poly Check Valve	150	1"	MCV100	14.81
2" Flanged Poly Check Valve	150	1 1/2"	MCV200	19.16
2" Full Port Flanged Poly Check Valve	150	2"	MCV220	23.07
3" Flanged Poly Check Valve	150	3"	MCV300	38.37



Flanged Couplings

Description	Mfg Part #	Price $
1" x 1" Flange x 2 1/4" Long	M100CPG	4.12
2" x 2" Flange x 4 1/2" Long	M200CPG	9.84
2" x 2" Full Port Flange x 2 31/32"	M220CPG	11.06
2" x 2" Full Port Flange x 6" Long	M220CPG6	15.55
3" x 3" Full Port Flange x 4" Long	M300CPG	13.03
3" x 3" Full Port Flange x 7" Long	M300CPG7	15.36



45° Flanged Couplings

Description	Mfg Part #	Price $
1" x 1" 45° Flange	M100CPG45	8.53
2" x 2" 45° Flange	M200CPG45	10.06
2" x 2" 45° Full Port Flange	M220CPG45	12.13
3" x 3" 45° Full Port Flange	M300CPG45	49.62



Manifold Swivel

Description	Max PSI	Mfg Part #	Price $
2" Full Port Manifold Flange Swivel	75	MSW220	30.77



Flanged Tee

Description	Mfg Part #	Price $
1" Flanged Tee	M100TEE	5.28
1" Flanged Tee - Long	M101TEE	5.28
2" Port x 1" Flanged Tee	M200100TEE	10.08
2" Port Flanged Tee	M200TEE	10.10
2" x 1" Port Flanged Tee with Mounting Bracket	M200100TEEB	14.15
2" Full Port Flanged Tee x 1" Flanged Tee	M220100TEE	11.25
2" Full Port Flanged Tee x 2" Flanged Tee	M220200TEE	17.39
2" Full Port Flanged Tee	M220TEE	10.10
3" Flanged Tee	M300TEE	47.62



90° Flanged Couplings

Description	Mfg Part #	Price $
1" x 1" 90° Flange	M100CPG90	5.74
2" x 2" 90° Flange	M200CPG90	9.61
2" x 2" 90° Short Flange	M200CPG90SH	9.61
2" x 2" 90° Full Port Flange	M220CPG90	8.73
3" x 3" 90° Full Port Flange	M300CPG90	41.48



Flange X PVC Glue Socket Fitting

Description	Mfg Part #	Price $
1" Manifold Flange x 1" PVC Glue Socket Fitting	M101GSA	6.43
2" Manifold Full Port Flange x 2" PVC Glue Socket Fitting	M221GSA	11.14
3" Manifold Full Port Flange x 3" PVC Glue Socket Fitting	M301GSA	17.48



Flange X Socket Weld - 316SS

Description	Mfg Part #	Price $
1" Flange x 1" Socket Weld Fitting	M100SWFSS	20.18
1" Flange x 1" Socket Weld Fitting x 4"	M104SWFSS	88.18
2" Flange x 2" Socket Weld Fitting	M200SWFSS	57.67
2" Full Port Flange x 2" Socket Weld Fitting	M220SWFSS	53.77
2" Full Port Flange x 2" Socket Weld Fitting x 3 3/4"	M220375SWFSS	96.80
3" Flange x 3" Socket Weld Fitting	M300SWFSS	91.75
3" Flange x 3" Socket Weld Fitting x 3 3/4"	M300375SWFSS	158.39



Flanged Reducer Couplings

Description	Mfg Part #	Price $
2" Port x 1" Reducer Flange	M200100CPG	11.17
2" Full Port x 1" Reducer Flange	M220100CPG	12.30
2" Full Port x 2" Reducer Flange	M220200CPG	12.30
3" x 2" Port Reducer Flange	M300200CPG	28.69
3" x 2" Full Port Reducer Flange	M300220CPG	26.08

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Manifold Flange Connections

Banjo Manifold Fittings



45° Y Flanged Couplings

Description	Mfg Part #	Price $
2" Full Port 45° Y Flange	M220Y45	49.14
2" 45° Y Flange with 3/4" gauge port	M200YG45	50.63
2" Full Port 45° Y Flange with 3/4" gauge port	M220YG45	58.62
3" Full Port 45° Y Flange	M300Y45	98.47
3" Full Port 45° Y Flange with 3/4" gauge port	M300YG45	102.90

Note: Gauge not included.



Flange X Male BSP

Description	Mfg Part #	Price $
1" Manifold Flange x 1" Male BSP	M100BSP	4.79
2" Manifold Flange x 2" Male BSP	M200BSP	4.96
2" Full Port Manifold Flange x 2" Male BSP	M220BSP	4.96
3" Full Port Manifold Flange x 3" Male BSP	M300BSP	11.11



Flange X NPT Thread

Description	Mfg Part #	Price $
1" Flange x 3/4" Male Thread	M100075MPT	1.92
1" Flange x 1" Male Thread	M100MPT	1.92
1" Flange x 1 1/4" Male Thread	M100125MPT	1.92
2" Flange x 1 1/4" Male Thread	M200125MPT	3.63
2" Flange x 1 1/2" Male Thread	M200150MPT	3.63
2" Flange x 2" Male Thread	M200MPT	3.63
2" Full Port Flange x 2" Male Thread	M220MPT	3.63
3" Flange x 3" Male Thread	M300MPT	10.10



U Bolts - SS

Description	Mfg Part #	Price $
100 Series Mounting Bolt	UB100	7.05
200 Series Mounting Bolt	UB202	18.42
220 Series Mounting Bolt	UB220	19.45



Flange X Female NPT Thread

Description	Mfg Part #	Price $
1" Flange x 1/2" Pipe Thread	M100050FPT	1.92
1" Flange x 3/4" Pipe Thread	M100075FPT	1.92
1" Flange x 1" Pipe Thread	M100FPT	3.62
2" Flange x 2" Pipe Thread	M200FPT	10.54
2" Full Port Flange x 2" Pipe Thread	M220FPT	16.98
3" Flange x 3" Pipe Thread	M300FPT	27.34



Flange X Male NPT Thread - 316SS

Description	Mfg Part #	Price $
1" Flange x 1" Male Thread	M100MPTSS	20.18
2" Flange x 1 1/4" Male Thread	M200125MPTSS	34.42
2" Flange x 1 1/2" Male Thread	M200150MPTSS	31.55
2" Flange x 2" Male Thread	M200MPTSS	43.57
2" Full Port Flange x 1 1/2" Male Thread	M220150MPTSS	45.83
2" Full Port Flange x 2" Male Thread	M220MPTSS	45.83
3" Flange x 2" Full Port Male Thread	M300220MPTSS	129.24
3" Flange x 3" Male Thread	M300MPTSS	76.92



Flange x Female QDC

Description	Mfg Part #	Price $
2" Full Port Flange x 2" Female Coupler	M220D	16.89
3" Full Port Flange x 3" Female Coupler w/3 Arms	M303D	32.40



Flange x Male QDC

Description	Mfg Part #	Price $
1" Flange x 1" Male Adapter	M100A	5.00
2" Flange x 2" Male Adapter	M200A	6.68
2" Full Port Flange x 2" Male Adapter	M220A	7.36
3" Full Port Flange x 3" Male Adapter	M300A	14.26



Manifold Butt Weld Adapter

Description	Mfg Part #	Price $
2" Full Port Stainless Steel Manifold Butt Weld Adapter	M220BWASS	64.00



Butt Weld Pipe Sweep

Description	Mfg Part #	Price $
2" 90° Full Port Stainless Steel Butt Weld Pipe Sweep	BW220SWP90SS	46.53



Flange Plugs - Solid and with Gauge Port

Description	Mfg Part #	Price $
1" Flange Plug	M100PLG	1.92
2" Flange Plug	M200PLG	3.63
2" Full Port Flange Plug	M220PLG	4.60
3" Flange Plug	M300PLG	12.30
1" Flange Plug with 1/4" FPT	M100PLG025	8.51
1" Flange Plug with 1/2" FPT	M100PLG050	9.36
2" Flange Plug with 1/8" FPT	M200PLG018	10.00
2" Flange Plug with 1/4" FPT	M200PLG025	11.00
2" Flange Plug with 3/8" FPT	M200PLG038	12.02
2" Flange Plug with 1/2" FPT	M200PLG050	11.00
2" Flange Plug with 3/4" FPT	M200PLG075	11.00
2" Flange Plug with 1" FPT	M200PLG100	11.00
2" Full Port Flange Plug with 3/4" FPT	M220PLG075	16.76
3" Flange Plug with 3/4" FPT	M300PLG075	19.89
3" Flange Plug with 1" FPT	M300PLG100	20.51

Manifold Flange Connections

Banjo Manifold Fittings



Flange X Hose Barb

Description	Mfg Part #	Price $
1" Flange x 3/4" Hose Barb	M100075BRB	1.67
1" Flange x 1" Hose Barb	M100BRB	1.67
1" Flange x 1 1/4" Hose Barb	M100125BRB	1.67
2" Flange x 1" Hose Barb	M200100BRB	4.12
2" Flange x 1 1/4" Hose Barb	M200125BRB	4.25
2" Flange x 1 1/2" Hose Barb	M200150BRB	3.75
2" Flange x 2" Hose Barb	M200BRB	4.12
2" Full Port Flange x 1" Hose Barb	M220100BRB	4.50
2" Full Port Flange x 1 1/4" Hose Barb	M220125BRB	4.12
2" Full Port Flange x 1 1/2" Hose Barb	M220150BRB	4.12
2" Full Port Flange x 2 1/2" Hose Barb	M220250BRB	5.80
2" Full Port Flange x 2" Hose Barb	M220BRB	3.75
3" Flange x 2" Hose Barb	M300220BRB	12.65
3" Flange x 3" Hose Barb	M300BRB	11.43



Flange X 90° Hose Barb Elbow

Description	Mfg Part #	Price $
1" Flange x 3/4" 90° Hose Barb Elbow	M100075BRB90	2.03
1" Flange x 1" 90° Hose Barb Elbow	M100BRB90	2.03
1" Flange x 1 1/4" 90° Hose Barb Elbow	M100125BRB90	2.03
1" Flange x 1 1/2" 90° Hose Barb Elbow	M100150BRB90	13.75
2" Flange x 1" 90° Hose Barb Elbow	M200100BRB90	7.61
2" Flange x 1 1/4" 90° Hose Barb Elbow	M200125BRB90	7.61
2" Flange x 1 1/2" 90° Hose Barb Elbow	M200150BRB90	6.92
2" Flange x 2" 90° Hose Barb Elbow	M200BRB90	7.61
2" Full Port Flange x 1 1/2" 90° Hose Barb Elbow	M220150BRB90	7.61
2" Full Port Flange x 2" 90° Hose Barb Elbow	M220BRB90	7.61
3" Flange x 2" 90° Hose Barb Elbow	M300220BRB90	12.57
3" Flange x 3" 90° Hose Barb Elbow	M300BRB90	30.57



Flange X 45° Hose Barb Elbow

Description	Mfg Part #	Price $
1" Flange x 1" 45° Hose Barb Elbow	M100BRB45	11.26
2" Flange x 2" 45° Hose Barb Elbow	M200BRB45	15.90
2" Full Port Flange x 2" 45° Hose Barb Elbow	M220BRB45	15.33
3" Flange x 3" 45° Hose Barb Elbow	M300BRB45	53.44



Flange X Hose Barb Tee

Description	Mfg Part #	Price $
1" Flange x 1" Hose Barb Tee	M100100HBT	6.57
1" Flange x 1 1/4" Hose Barb Tee	M100125HBT	8.08
2" Full Port Flange x 2" Hose Barb Tee	M220200HBT	12.17
3" Flange x 3" Hose Barb Tee	M300300HBT	26.52



Flanged Cross

Description	Mfg Part #	Price $
1" Flanged Cross	M100CR	15.49
2" Flanged Cross	M200CR	25.26
2" Full Port Flanged Cross	M220CR	27.78
2" Full Port SS Flanged Cross	M220CRSS	149.42
3" Flanged Cross	M300CR	55.88



Flange Gaskets

Description	Mfg Part #	Price $
1" EPDM Manifold Gasket	M100G	1.59
1" EPDM Manifold Gasket with Rib	M101G	1.34
100 Series FKM Gasket	M100GV	4.68
1 1/2" EPDM Gasket	150G	0.76
200 Series FKM Gasket	150GV	8.66
220 Series Full Port EPDM Gasket	200G	0.80
220 Series Full Port FKM Gasket	200GV	13.41
2" EPDM Manifold Gasket with Rib	M201G	1.57
2" Full Port EPDM Manifold Gasket with Rib	M221G	1.70
3" EPDM Gasket	300G	1.09
300 Series FKM Gasket	300GV	18.40
3" EPDM Manifold Gasket with Rib	M301G	1.84



Bolted Flange Clamps

Description	Torque	Mfg Part #	Price $
2" Full Port Bolted Flange Clamp	150 in/lbs	FC220B	31.63
3" Bolted Flange Clamp	150 in/lbs	FC300B	35.26



T-Bolt Flange Clamps

Description	Torque	Mfg Part #	Price $
2" Full Port Hi-Torque T-Bolt Flange Clamp	125 in/lbs	FC220TB	22.39
3" Full Port Hi-Torque T-Bolt Flange Clamp	125 in/lbs	FC300TB	23.39



Flange Clamps

Description	Torque	Mfg Part #	Price $
100 Series Worm Screw Clamp	50-60 in/lbs	FC100	7.20
200 Series Worm Screw Clamp	90-100 in/lbs	FC200	8.30
220 Series Worm Screw Clamp	90-100 in/lbs	FC220	9.11
300 Series Worm Screw Clamp	90-100 in/lbs	FC300	12.55

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Manifold Flange Connections

Banjo Manifold T and Y Line Strainers



Features:
- EPDM gaskets.
- 316 stainless steel screens.
- 150 P.S.I. maximum.

1" and 2" Manifold T Line Strainers

Description	Mfg Part #	Price $
1" Manifold T Strainer w/16 Mesh Screen	MLST100-16	34.84
1" Manifold T Strainer w/30 Mesh Screen	MLST100-30	34.84
1" Manifold T Strainer w/50 Mesh Screen	MLST100-50	34.84
1" Manifold T Strainer w/80 Mesh Screen	MLST100-80	34.84
1" Manifold T Strainer w/100 Mesh Screen	MLST100-100	34.84
2" Manifold T Strainer w/16 Mesh Screen	MLST150-16	64.88
2" Manifold T Strainer w/30 Mesh Screen	MLST150-30	64.88
2" Manifold T Strainer w/50 Mesh Screen	MLST150-50	58.99
2" Manifold T Strainer w/80 Mesh Screen	MLST150-80	64.88
2" Manifold T Strainer w/100 Mesh Screen	MLST150-100	64.88



Features:
- EPDM gaskets.
- 316 stainless steel screens.
- 150 P.S.I. maximum.

1" Manifold Y Line Strainers

Description	Mfg Part #	Price $
1" Manifold Y Strainer w/20 Mesh Screen	MLS100-20	31.87
1" Manifold Y Strainer w/40 Mesh Screen	MLS100-40	29.00
1" Manifold Y Strainer w/50 Mesh Screen	MLS100-50	32.82
1" Manifold Y Strainer w/80 Mesh Screen	MLS100-80	32.82



Features:
- EPDM gaskets.
- 316 stainless steel screens.
- 150 P.S.I. maximum.

2" Manifold Y Line Strainers

Description	Mfg Part #	Price $
2" Manifold Y Strainer w/6 Mesh Screen	MLS200-06	74.56
2" Manifold Y Strainer w/12 Mesh Screen	MLS200-12	74.56
2" Manifold Y Strainer w/20 Mesh Screen	MLS200-20	74.56
2" Manifold Y Strainer w/30 Mesh Screen	MLS200-30	67.78
2" Manifold Y Strainer w/50 Mesh Screen	MLS200-50	74.56
2" Manifold Y Strainer w/Mounting Bracket w/50 Mesh Screen	MLS200-50M	82.07
2" Manifold Y Strainer w/80 Mesh Screen	MLS200-80	74.56
2" Manifold Y Strainer w/100 Mesh Screen	MLS200-100	74.56
2" Manifold Y Strainer w/120 Mesh Screen	MLS200-120	74.56
2" Manifold Y Strainer Without Screen and 2" EPDM O-Ring for Screen	MLS200BC	38.58



Features:
- EPDM gaskets.
- 316 stainless steel screens.
- 150 P.S.I. maximum.

2" Full Port Manifold Y Line Strainers

Description	Mfg Part #	Price $
2" FP Manifold Y Strainer w/4 Mesh Screen	MLS222-04	103.46
2" FP Manifold Y Strainer w/6 Mesh Screen	MLS222-06	113.80
2" FP Manifold Y Strainer w/8 Mesh Screen	MLS222-08	113.80
2" FP Manifold Y Strainer w/10 Mesh Screen	MLS222-10	113.80
2" FP Manifold Y Strainer w/16 Mesh Screen	MLS222-16	113.80
2" FP Manifold Y Strainer w/30 Mesh Screen	MLS222-30	103.46
2" FP Manifold Y Strainer w/50 Mesh Screen	MLS222-50	103.46
2" FP Manifold Y Strainer w/80 Mesh Screen	MLS222-80	113.80
2" FP Manifold Y Strainer w/100 Mesh Screen	MLS222-100	113.80
2" FP Manifold Y Strainer Without Screen	MLS222BC	59.67



Features:
- EPDM gaskets.
- 304 stainless steel screens.
- 100 P.S.I. maximum.

3" Manifold Y Line Strainers

Description	Mfg Part #	Price $
3" Manifold Y Strainer w/4 Mesh Screen	MLS300-04	378.24
3" Manifold Y Strainer w/8 Mesh Screen	MLS300-08	416.06
3" Manifold Y Strainer w/12 Mesh Screen	MLS300-12	416.06
3" Manifold Y Strainer w/20 Mesh Screen	MLS300-20	378.24
3" Manifold Y Strainer w/50 Mesh Screen	MLS300-50	378.24

Features: 3" Polypropylene "Y" Strainer to be used on suction side or non-pressure side in all applications.

Manifold Flange Connections

Banjo Manifold Tank Fittings

Features:
- Stainless steel bolts.
- Bolt head plugs sealed ultrasonically.
- Glass reinforced polypropylene.
- EPDM gaskets standard.
- FKM available.





Fully Drainable

Manifold Bolted Bottom Drain Tank Flanges

Description	Mfg Part #	Price $
1" Flange x 1" EPDM Female Thread	MBF100BD	86.41
1" Flange x 1" FKM Female Thread	MBF100BDV	55.29
2" Flange x 1 1/2" EPDM Female Thread	MBF150200BD	34.71
2" Flange x 1 1/2" FKM Female Thread	MBF150200BDV	92.88
2" Flange x 2" EPDM Female Thread	MBF200BD	39.74
2" Flange x 2" FKM Female Thread	MBF200BDV	99.06
2" Full Port Flange x 2" EPDM Female Thread	MBF220BD	55.62
2" Full Port Flange x 2" FKM Female Thread	MBF220BDV	105.06
3" Flange x 3" EPDM Female Thread	MBF300BD	64.71
3" Flange x 3" FKM Female Thread	MBF300BDV	160.35



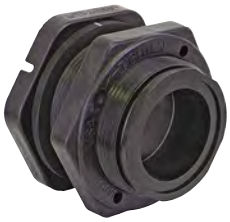
1" - 2" 4 Bolt



3" 6 Bolt

Manifold Bolted Tank Flanges

Description	Mfg Part #	Price $
1" Flange x 1" EPDM Female Thread	MBF100	33.08
1" Flange x 1" FKM Female Thread	MBF100V	71.87
2" Flange x 2" EPDM Female Thread	MBF200	34.21
2" Flange x 2" FKM Female Thread	MBF200V	96.63
2" Full Port Flange x 2" EPDM Female Thread	MBF220	56.38
2" Full Port Flange x 2" FKM Female Thread	MBF220V	118.10
3" Flange x 3" EPDM Female Thread	MBF300	75.38
3" Flange x 3" FKM Female Thread	MBF300V	150.30



Manifold Poly Bottom Drain Tank Flanges

Description	Hole Size	Mfg Part #	Price $
2" x 2" Full Port Manifold EPDM Flange	3 1/4"	MTF220BD	23.92
3" x 3" Manifold EPDM Flange	3 1/2"	MTF300BD	41.82

Note: Gasket and clamp not included.



Manifold Poly Bulkhead Fittings

Description	Hole Size	Mfg Part #	Price $
2" Manifold Poly Bulkhead EPDM Tank Fitting	3 1/4"	MTF220	23.52
3" Manifold Poly Bulkhead EPDM Tank Fitting	3 1/2"	MTF300	40.13

Note: Gasket not included.

Y-Strainers

Y-Strainers



Features:

- Available in PVC or CPVC with FPM seals in sizes 3/8 "- 4"
- End connections: Socket,Threaded, or Flanged
- Horizontal or vertical installation • CPVC is Corzan™
- Heavy duty hex cap for quick and easy access to screen
- PVC, CPVC 1/32" perforated straining screen with minimum 2:1 open area ratio standard

Option:

- 316 Stainless Steel screens 1/2" perforations down to 325 mesh

Clear Y-Strainer



HAYWARD

Size (in.)	PVC/FPM soc./thr. Part #	Price $
3/8	0182-003-S	$88.60
3/8	0182-003-T	$88.60
1/2	0182-005-S	$88.60
1/2	0182-005-T	$88.60
3/4	0182-007-S	$100.05
3/4	0182-007-T	$100.05
1	0182-010-S	$110.20
1	0182-010-T	$110.20
1 1/4	0182-012-S	$199.70
1 1/4	0182-012-T	$199.70
1 1/2	0182-015-S	$199.70
1 1/2	0182-015-T	$199.70
2	0182-020-S	$234.00
2	0182-020-T	$234.00
2 1/2	0182-025-S	$388.05
2 1/2	0182-025-T	$388.05
3	0182-030-S	$523.30
3	0182-030-T	$523.30
4	0182-040-S	$915.20
4	0182-040-T	$915.20

Size (in.)	Clear PVC/FPM soc./thr. Part #	Price $
1/2	0251-005-S	$88.60
1/2	0251-005-T	$88.60
3/4	0251-007-S	$100.05
3/4	0251-007-T	$100.05
1	0251-010-S	$110.20
1	0251-010-T	$110.20
1 1/4	0251-012-S	$199.70
1 1/4	0251-012-T	$199.70
1 1/2	0251-015-S	$199.70
1 1/2	0251-015-T	$199.70
2	0251-020-S	$234.00
2	0251-020-T	$234.00

Size (in.)	PVC/FPM flanged Part #	Price $
1/2	0183-005	$131.65
3/4	0183-007	$145.95
1	0183-010	$174.20
1 1/4	0183-012	$250.75
1 1/2	0183-015	$250.75
2	0183-020	$388.80
2 1/2	0183-025	$850.15
3	0183-030	$806.70
4	0183-040	$1300.20

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
3/8	0184-003-S	$249.15
3/8	0184-003-T	$249.15
1/2	0184-005-S	$249.15
1/2	0184-005-T	$249.15
3/4	0184-007-S	$275.45
3/4	0184-007-T	$275.45
1	0184-010-S	$352.65
1	0184-010-T	$352.65
1 1/2	0184-015-S	$547.60
1 1/2	0184-015-T	$547.60
2	0184-020-S	$703.70
2	0184-020-T	$703.70
3	0184-030-S	$876.85
3	0184-030-T	$876.85
4	0184-040-S	$1519.40
4	0184-040-T	$1519.40

Size (in.)	CPVC/FPM flanged Part #	Price $
1/2	0185-005	$262.65
3/4	0185-007	$294.20
1	0185-010	$372.85
1 1/2	0185-015	$569.75
2	0185-020	$949.00
3	0185-030	$1361.10
4	0185-040	$2181.40

EXTRA / REPLACEMENT SCREENS FOR Y-STRAINERS

Size (in.)	PVC Screen 1/32" perf. Part #	Price $
3/8	0186-003	$33.75
1/2	0186-005	$33.75
3/4	0186-007	$38.15
1	0186-010	$43.90
1 1/4	0186-012	$50.90
1 1/2	0186-015	$50.90
2	0186-020	$84.45
2 1/2	0186-025	$120.00
3	0186-030	$120.00
4	0186-040	$149.15

Size (in.)	CPVC Screen 1/32" perf. Part #	Price $
3/8	0187-003	$47.85
1/2	0187-005	$47.85
3/4	0187-007	$58.40
1	0187-010	$72.05
1 1/2	0187-015	$91.00
2	0187-020	$118.25
3	0187-030	$184.05
4	0187-040	$226.40

316SS replacement screens are available in perforations from 1/32" to 1/2". (1/2" for 1 1/2" and larger strainers only)
Plastic screen housings w/stainless steel mesh are available in mesh sizes of 20, 40, 60, 80, and 100 mesh. 200 and 325 mesh are available by special order only. Please contact our Sales office for more information.

Clear True Union Y-Strainers



Features:

- Available in Clear PVC with EPDM or Fpm® seals in 1/2" - 2" • 20 mesh screen
- Socket, threaded or flanged connections
- Designed for up to 150 psi working press.

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
1/2	0204-005-S	22.00
1/2	0204-005-T	22.00
3/4	0204-007-S	24.00
3/4	0204-007-T	24.00
1	0204-010-S	31.00
1	0204-010-T	31.00
1 1/4	0204-012-S	47.00
1 1/4	0204-012-T	47.00
1 1/2	0204-015-S	52.00
1 1/2	0204-015-T	52.00
2	0204-020-S	67.00
2	0204-020-T	67.00

Size (in.)	PVC/Fpm® soc./thr. Part #	Price $
1/2	0205-005-S	29.00
1/2	0205-005-T	29.00
3/4	0205-007-S	31.00
3/4	0205-007-T	31.00
1	0205-010-S	42.00
1	0205-010-T	42.00
1 1/4	0205-012-S	74.00
1 1/4	0205-012-T	74.00
1 1/2	0205-015-S	79.00
1 1/2	0205-015-T	79.00
2	0205-020-S	102.00
2	0205-020-T	102.00

Size (in.)	PVC flanged adder Part #	Price $
1/2	0206-005	25.00
3/4	0206-007	26.00
1	0206-010	28.00
1 1/4	0206-012	31.00
1 1/2	0206-015	32.00
2	0206-020	41.00

Y-Strainers

Asahi Clear True Union Sediment Strainers



Sediment strainers protect pipeline components such as pumps and meters by removing suspended solids and impurities. Transparent thermoplastic construction permits easy detection of the screen's condition. Also available with an in-line clean out valve to flush accumulated solids out of the strainer port.

Features:
- True Union design facilitates installation or repair without expanding the pipeline
- Large filtration capacities and low pressure drops
- Transparent PVC strainer body permits easy evaluation of filter screen's condition
- Complete thermoplastic construction
- Pressure rating: 1/2" – 2", 150 psi; 3" and 4", 85 psi
- Sizes 1/2" – 2" supplied with two sets of end connectors (socket and threaded)

Options:
- FKM seals for corrosive media
- Stainless Steel 316 screens available in 20, 40 and 60 mesh
- Inline cleaning (clean out valve)

Cv Values

Size (in.)	Cv 100 gal/min Δp = 1psi
1/2	5.2
3/4	7.5
1	14
1 1/2	34
2	50
3	110
4	165

Filter Screen Sizes*

Mesh (Holes Per Linear Inch)	20	30	40
Maximum Particle Size (Inch)	.033	.023	.011
Micron Particle Size (10-30μ)	840	595	420

*For 60 mesh consult ALSCO

Size (in.)	PVC/EPDM soc./thr. Part #	Price $
1/2	1257-005	$76.00
3/4	1257-007	$81.00
1	1257-010	$97.00
1 1/4 soc.	1256-012	$232.00
1 1/4 thr.	1257-012	$232.00
1 1/2	1257-015	$201.00
2	1257-020	$201.00
3	1256-030	$486.00
3	1257-030	$486.00
4	1256-040	$812.00
4	1257-040	$812.00

Size (in.)	PVC/EPDM flanged Part #	Price $
1/2	1258-005	$166.00
3/4	1258-007	$179.00
1	1258-010	$235.00
1 1/4	1258-012	$381.00
1 1/2	1258-015	$381.00
2	1258-020	$474.00
3	1258-030	$868.00
4	1258-040	$1353.00

PTFE & PVDF Y-Strainer ETFE/Tefzel® Screen Assembly



Features:
- Sizes: 1/8 - 4" PVDF, 1/8 - 3" PTFE
- May be installed horizontally or vertically
- Standard mesh size 30
- Std. connections: IPS Socket, Metric socket, female NPT, flanged & Tri-Clamp
- All wetted materials are fluoroplastic - Body & connections are PTFE or PVDF
- Std strainer mesh is Tefzel ETFE; cartridges and drain plugs are PTFE, seals are FEP encapsulated silicone rubber

Options:
- Flanged ends, sizes 1/2 - 4"
- Mesh sizes - 11, 17, 30, 51, 102, 160
- Other mesh sizes available upon special request

Size (in.)	Kynar® Std. Soc. Part #	Price $
1/8	2907-001-30	-
1/4	2907-002-30	-
3/8	2907-003-30	991.07
1/2	2907-005-30	991.07
3/4	2907-007-30	1210.58
1	2907-010-30	1210.58
1 1/4	2907-012-30	1576.69
1 1/2	2907-015-30	1576.69
2	2907-020-30	2294.94
3	2907-030-30	6019.80
4	2907-040-30	6714.63

Size (in.)	Kynar® Metric Soc. Part #	Price $
3/8	2908-003-30	991.07
1/2	2908-005-30	991.07
3/4	2908-007-30	1210.58
1	2908-010-30	1210.58
1 1/4	2908-012-30	1576.69
1 1/2	2908-015-30	1576.69
2	2908-020-30	2294.94
3	2908-030-30	6019.80
4	2908-040-30	6714.63

Size (in.)	Kynar® threaded Part #	Price $
1/8	2909-001-30	887.07
1/4	2909-002-30	887.07
3/8	2909-003-30	887.07
1/2	2909-005-30	887.07
3/4	2909-007-30	1106.58
1	2909-010-30	1106.58
1 1/4	2909-012-30	1472.69
1 1/2	2909-015-30	1472.69
2	2909-020-30	2190.94
3	2909-030-30	5915.80
4	2909-040-30	6610.63



Size (in.)	PTFE flanged Part #	Price $
1/2	2927-005-30	1432.45
3/4	2927-007-30	1805.54
1	2927-010-30	1805.54
1 1/4	2927-012-30	2304.28
1 1/2	2927-015-30	2304.28
2	2927-020-30	3313.00
3	2927-030-30	7688.17

Size (in.)	PTFE threaded Part #	Price $
1/8	2928-001-30	1231.82
1/4	2928-002-30	1231.82
3/8	2928-003-30	1231.82
1/2	2928-005-30	1231.82
3/4	2928-007-30	1537.43
1	2928-010-30	1537.43
1 1/4	2928-012-30	1933.05
1 1/2	2928-015-30	1933.05
2	2928-020-30	2874.26
3	2928-030-30	7088.09

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Line Strainers

Banjo PP Mini "T" Line Strainers

Features:
- Heavy-duty glass reinforced polypropylene.
- Clear or black PP bowl.
- PP ribbed 304 SS screens.
- EPDM gaskets standard.
- FKM (fpm type) available.
- Clear bowl Max 100PSI@70°F.
- Black bowl Max 150PSI@70°F.
- Convenient color coded screens for easy mesh size identification. (See chart below)

Strainer Screen Colors

Mesh Size	Color	RAL#
30	Flame Red	3000
50	Gentian Blue	5010
80	Zinc Yellow	1018
100	Traffic Green	6024



Part #	Description	Size	Screen Mesh	Price Each
LSTM050-30C	Mini T-Strainer w/clear bowl	1/2" x 1/2"	30	$23.64
LSTM050-50C	Mini T-Strainer w/clear bowl	1/2" x 1/2"	50	$23.64
LSTM050-80C	Mini T-Strainer w/clear bowl	1/2" x 1/2"	80	$23.64
LSTM050-100C	Mini T-Strainer w/clear bowl	1/2" x 1/2"	100	$23.64
LSTM075-30C	Mini T-Strainer w/clear bowl	3/4" x 3/4"	30	$23.64
LSTM075-50C	Mini T-Strainer w/clear bowl	3/4" x 3/4"	50	$23.64
LSTM075-80C	Mini T-Strainer w/clear bowl	3/4" x 3/4"	80	$23.64
LSTM075-100C	Mini T-Strainer w/clear bowl	3/4" x 3/4"	100	$23.64



Part #	Description	Size	Screen Mesh	Price Each
LSTM050-30	Mini T-Strainer w/black bowl	1/2" x 1/2"	30	$17.60
LSTM050-50	Mini T-Strainer w/black bowl	1/2" x 1/2"	50	$17.60
LSTM050-80	Mini T-Strainer w/black bowl	1/2" x 1/2"	80	$16.00
LSTM050-100	Mini T-Strainer w/black bowl	1/2" x 1/2"	100	$16.00
LSTM075-30	Mini T-Strainer w/black bowl	3/4" x 3/4"	30	$17.60
LSTM075-50	Mini T-Strainer w/black bowl	3/4" x 3/4"	50	$17.60
LSTM075-80	Mini T-Strainer w/black bowl	3/4" x 3/4"	80	$17.60
LSTM075-100	Mini T-Strainer w/black bowl	3/4" x 3/4"	100	$16.00

4

Banjo PP "T" Line Strainers

Features:
- Heavy-duty glass reinforced polypropylene.
- Clean-out plug.
- 304 stainless steel reinforced screens.
- EPDM gaskets standard.
- FKM (fpm type) available.
- 150 PSI @ 70° F.
- Convenient color coded screens for easy mesh size identification. (See chart below)

Strainer Screen Colors

Mesh Size	Color	RAL#
16	Brown Red	3011
30	Flame Red	3000
50	Gentian Blue	5010
80	Zinc Yellow	1018
100	Traffic Green	6024



3/4" & 1"



1 1/4" & 1 1/2"

3/4" thru 1 1/2" Poly "T" Strainers

Part #	Description	Size	Screen Mesh	Price Each
LST075-16	PP T Strainer w/SS screen	3/4" x 3/4"	16	$31.61
LST075-30	PP T Strainer w/SS screen	3/4" x 3/4"	30	$31.61
LST075-50	PP T Strainer w/SS screen	3/4" x 3/4"	50	$28.74
LST075-80	PP T Strainer w/SS screen	3/4" x 3/4"	80	$31.61
LST075-100	PP T Strainer w/SS screen	3/4" x 3/4"	100	$31.61
LST100-16	PP T Strainer w/SS screen	1" x 1"	16	$31.61
LST100-30	PP T Strainer w/SS screen	1" x 1"	30	$31.61
LST100-50	PP T Strainer w/SS screen	1" x 1"	50	$28.74
LST100-80	PP T Strainer w/SS screen	1" x 1"	80	$31.61
LST100-100	PP T Strainer w/SS screen	1" x 1"	100	$31.61
LST125-16	PP T Strainer w/SS screen	1 1/4" x 1 1/4"	16	$62.97
LST125-30	PP T Strainer w/SS screen	1 1/4" x 1 1/4"	30	$62.97
LST125-50	PP T Strainer w/SS screen	1 1/4" x 1 1/4"	50	$62.97
LST125-80	PP T Strainer w/SS screen	1 1/4" x 1 1/4"	80	$62.97
LST125-100	PP T Strainer w/SS screen	1 1/4" x 1 1/4"	100	$62.97
LST150-16	PP T Strainer w/SS screen	1 1/2" x 1 1/2"	16	$62.97
LST150-30	PP T Strainer w/SS screen	1 1/2" x 1 1/2"	30	$62.97
LST150-50	PP T Strainer w/SS screen	1 1/2" x 1 1/2"	50	$57.25
LST150-80	PP T Strainer w/SS screen	1 1/2" x 1 1/2"	80	$62.97
LST150-100	PP T Strainer w/SS screen	1 1/2" x 1 1/2"	100	$62.97

Line Strainers

Banjo PP "Y" Strainers



Features:

- Precision molded construction.
- Corrosion resistant.
- Lightweight.
- Fiberglass reinforced.
- Easy grip end cap.
- Poly Ribbed SS304 screen.
- EPDM gaskets, FKM available.
- Heavy duty end cap threads.
- 1/2" - 1 1/4" 75 PSI Maximum.
- 1 1/2" - 2" 150 PSI Maximum.
- Clean-out plug.
- Female NPT x Female NPT

Strainer Screen Colors

Mesh Size	Color	RAL#
6	White	N/A
8	Zinc Yellow	1018
12	Black	N/A
20	Beige	N/A
30	Flame Red	3000
40	Brown	N/A
50	Gentian Blue	5010
80	Zinc Yellow	1018
100	Traffic Green	6024
120	Black	N/A

1/2" thru 1 1/4" with SS Screens

Part #	Description	Size	Screen Mesh	Price Each
LS050-20	PP Y Strainer w/SS screen	1/2" x 1/2"	20	$29.90
LS050-40	PP Y Strainer w/SS screen	1/2" x 1/2"	40	$27.17
LS050-60	PP Y Strainer w/SS screen	1/2" x 1/2"	60	$27.17
LS050-80	PP Y Strainer w/SS screen	1/2" x 1/2"	80	$29.90
LS075-20	PP Y Strainer w/SS screen	3/4" x 3/4"	20	$27.17
LS075-40	PP Y Strainer w/SS screen	3/4" x 3/4"	40	$27.17
LS075-60	PP Y Strainer w/SS screen	3/4" x 3/4"	60	$29.90
LS075-80	PP Y Strainer w/SS screen	3/4" x 3/4"	80	$29.90
LS100-20	PP Y Strainer w/SS screen	1" x 1"	20	$29.90
LS100-40	PP Y Strainer w/SS screen	1" x 1"	40	$27.17
LS100-80	PP Y Strainer w/SS screen	1" x 1"	80	$29.84
LS125-20	PP Y Strainer w/SS screen	1 1/4" x 1 1/4"	20	$29.90
LS125-40	PP Y Strainer w/SS screen	1 1/4" x 1 1/4"	40	$29.90
LS125-80	PP Y Strainer w/SS screen	1 1/4" x 1 1/4"	80	$32.82

1 1/2" & 2" with All Poly Screens

Part #	Description	Size	Screen Mesh	Price Each
LS150-12P	PP Y Strainer w/PP screen	1 1/2" x 1 1/2"	12	$57.77
LS150-20P	PP Y Strainer w/PP screen	1 1/2" x 1 1/2"	20	$57.77
LS200-12P	PP Y Strainer w/PP screen	2" x 2"	12	$59.80
LS200-20P	PP Y Strainer w/PP screen	2" x 2"	20	$59.80
LS200-50P	PP Y Strainer w/PP screen	2" x 2"	50	$65.78

1 1/2" thru 2" Poly Ribbed w/316SS Screen

Part #	Description	Size	Screen Mesh	Price Each
LS150-06	PP Y Strainer w/SS screen	1 1/2" x 1 1/2"	6	$65.78
LS150-12	PP Y Strainer w/SS screen	1 1/2" x 1 1/2"	12	$59.80
LS150-20	PP Y Strainer w/SS screen	1 1/2" x 1 1/2"	20	$59.80
LS150-30	PP Y Strainer w/SS screen	1 1/2" x 1 1/2"	30	$65.78
LS150-50	PP Y Strainer w/SS screen	1 1/2" x 1 1/2"	50	$59.80
LS150-80	PP Y Strainer w/SS screen	1 1/2" x 1 1/2"	80	$65.78
LS150-120	PP Y Strainer w/SS screen	1 1/2" x 1 1/2"	120	$65.78
LS200-06	PP Y Strainer w/SS screen	2" x 2"	6	$65.78
LS200-08	PP Y Strainer w/SS screen	2" x 2"	8	$55.80
LS200-12	PP Y Strainer w/SS screen	2" x 2"	12	$59.80
LS200-20	PP Y Strainer w/SS screen	2" x 2"	20	$59.80
LS200-30	PP Y Strainer w/SS screen	2" x 2"	30	$59.80
LS200-50	PP Y Strainer w/SS screen	2" x 2"	50	$59.80
LS200-80	PP Y Strainer w/SS screen	2" x 2"	80	$59.80
LS200-100	PP Y Strainer w/SS screen	2" x 2"	100	$71.87
LS200-120	PP Y Strainer w/SS screen	2" x 2"	120	$65.78

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Line Strainers

Banjo "T" Line Strainers - Poly/Stainless Combo

Features:
- 316 Stainless steel head.
- Glass reinforced PP bowl.
- Clean-out plug.
- 316 Stainless steel reinforced screens.
- FKM (fpm type) gaskets.
- 150 PSI @ 70° F.



Part #	Description	Size	Screen Mesh	Price Each
LST200-04SS	PP/SS T Strainer w/SS screen	2" X 2"	4	$480.78
LST200-06SS	PP/SS T Strainer w/SS screen	2" X 2"	6	$480.78
LST200-08SS	PP/SS T Strainer w/SS screen	2" X 2"	8	$464.38
LST200-10SS	PP/SS T Strainer w/SS screen	2" X 2"	10	$560.58
LST200-16SS	PP/SS T Strainer w/SS screen	2" X 2"	16	$560.58
LST200-30SS	PP/SS T Strainer w/SS screen	2" X 2"	30	$560.58
LST200-50SS	PP/SS T Strainer w/SS screen	2" X 2"	50	$560.58
LST200-80SS	PP/SS T Strainer w/SS screen	2" X 2"	80	$509.63
LST200-100SS	PP/SS T Strainer w/SS screen	2" X 2"	100	$509.63

4

Banjo LSQ PP Line Strainers

Features:
- Precision molded in glass reinforced polypropylene.
- Cam lever configuration for easy access for cleaning and servicing.
- 3/4" plug in cam lever cap for attaching ball valve for draining or back flushing.
- Poly ribbed stainless steel screen.
- EPDM lathe cut gasket.
- FKM (fpm type) gaskets available.
- 75 PSI maximum.



Strainer Screen Colors

Mesh Size	Color	RAL#
6	White	N/A
12	Black	N/A
20	Beige	N/A
30	Flame Red	3000
50	Gentian Blue	5010
80	Zinc Yellow	1018
120	Black	N/A

1 1/2" & 2" LSQ Series PP Strainer

Part #	Description	Size	Screen Mesh	Price Each
LSQ150-06	PP Strainer w/SS screen	1 1/2" X 1 1/2"	6	$95.00
LSQ150-12	PP Strainer w/SS screen	1 1/2" X 1 1/2"	12	$95.00
LSQ150-20	PP Strainer w/SS screen	1 1/2" X 1 1/2"	20	$95.00
LSQ150-30	PP Strainer w/SS screen	1 1/2" X 1 1/2"	30	$95.00
LSQ150-50	PP Strainer w/SS screen	1 1/2" X 1 1/2"	50	$95.00
LSQ150-80	PP Strainer w/SS screen	1 1/2" X 1 1/2"	80	$95.00
LSQ150-120	PP Strainer w/SS screen	1 1/2" X 1 1/2"	120	$95.00
LSQ200-06	PP Strainer w/SS screen	2" X 2"	6	$95.00
LSQ200-12	PP Strainer w/SS screen	2" X 2"	12	$95.00
LSQ200-20	PP Strainer w/SS screen	2" X 2"	20	$95.00
LSQ200-30	PP Strainer w/SS screen	2" X 2"	30	$95.00
LSQ200-50	PP Strainer w/SS screen	2" X 2"	50	$95.00
LSQ200-80	PP Strainer w/SS screen	2" X 2"	80	$95.00
LSQ200-120	PP Strainer w/SS screen	2" X 2"	120	$95.00

Banjo 3" "Y" Strainers



Features:
- Lightweight. • High volume.
- Constructed of glass filled polypropylene.
- 1/2" drain plug in bottom of cap.
- Reinforced stainless steel screen.
- 3" Female NPT threads • 75 PSI maximum.Δ

Δ Warning: To be used on suction side or non-pressure side in all applications.

Part #	Description	Size	Screen Mesh	Price Each
LSM300-04	PP Y Strainer w/SS screen	3" X 3"	4	$438.39
LSM300-08	PP Y Strainer w/SS screen	3" X 3"	8	$438.39
LSM300-12	PP Y Strainer w/SS screen	3" X 3"	12	$398.55
LSM300-20	PP Y Strainer w/SS screen	3" X 3"	20	$398.55
LSM300-50	PP Y Strainer w/SS screen	3" X 3"	50	$398.55

Features:
- EPDM gaskets standard FKM (fpm type) avail.
- Corrosion resistant.
- 200 PSI maximum.
- Clean-out plug.
- SS screens sold separately.



3" Stainless Steel "Y" Strainer

Part #	Description	Price
LSS300-BC	Strainer Body, Cap & Gasket	$860.98
LSS300-B	Strainer Body	$562.98
LSS300-C	Replacement Cap	$162.97
LSS300-S	Screen Seal (2 per strainer)	$6.15
LSS300-SV	Screen Seal FKM (2 per str.)	$22.07
LSS300-G	Rep. Gasket-Cap EPDM	$7.03
LSS300-GV	Rep. Gasket-Cap FKM	$22.59
LSS300-H	Handle / Clamp Assembly	$60.74
LSS306	6 Mesh Screen S.S.	$83.93
LSS308	8 Mesh Screen S.S.	$83.93
LSS312	12 Mesh Screen S.S.	$83.93
LSS320	20 Mesh Screen S.S.	$83.93
LSS330	30 Mesh Screen S.S.	$83.93
LSS350	50 Mesh Screen S.S.	$83.93

Basket Strainers

HAYWARD Simplex Plastic Basket Strainers 1/2"- 8"



Features

- External Body Threads
- Low Pressure Drop
- Wide Choice of Baskets
- In-Line or Loop Piping Design
- True Union Connections
- Ergonomic hand Removable Cover
- FPM Seals
- Integral, Flat Mounting Base
- Hand Removable Vent and Drain
- Liquid Displacing Cover

Options

- Stainless steel mesh strainer baskets
- Clear, see-through model made of Eastar
- EPDM seals

Note:
For all strainers (Simplex and Duplex)
For 1/2", 3/4", & 1" Basket strainers standard perforation is 1/32".
For 1 1/2" thru 8" Basket strainers standard perforation is 1/8".

Size	Material	Ends	Seal	Pressure Rating
1/2" to 4"	PVC, CPVC	Soc, Thd, Flg	FPM	150 psi @ 70°F non-shock
1/2" to 2"	Eastar	Soc, Thd, Flg	FPM	100 psi @ 70°F non-shock
6" to 8"	PVC, CPVC	Flg	FPM	150 psi @ 70°F non-shock

Size	Cv Factors (Value)	Size	Cv Factors (Value)
1/2"	15	2 1/2"	290
3/4"	18	3"	300
1"	20	4"	350
1 1/4"	55	6"	1000
1 1/2"	58	8"	750
2"	60		
For water with clean basket			

Size (in.)	PVC/FPM soc./thr. Part #	Price $
1/2	0208-005	$350.25
3/4	0208-007	$350.25
1	0208-010	$350.25
1 1/4	0208-012	$604.00
1 1/2	0208-015	$604.00
2	0208-020	$604.00
2 1/2	0208-025-S	$1544.50
2 1/2	0208-025-T	$1544.50
3	0208-030-S	$1544.50
3	0208-030-T	$1544.50
4	0208-040-S	$1544.50
4	0208-040-T	$1544.50

Size (in.)	PVC/FPM flanged Part #	Price $
1/2	0209-005	$402.65
3/4	0209-007	$402.65
1	0209-010	$402.65
1 1/4	0209-012	$717.90
1 1/2	0209-015	$717.90
2	0209-020	$717.90
2 1/2	0209-025	$1713.90
3	0209-030	$1755.40
4	0209-040	$1936.60
6	0209-060	$4431.80
8	0209-080	$5838.30

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
1/2	0210-005	$561.00
3/4	0210-007	$561.00
1	0210-010	$561.00
1 1/4	0210-012	$999.00
1 1/2	0210-015	$999.00
2	0210-020	$999.00
2 1/2	0210-025-S	$2214.15
2 1/2	0210-025-T	$2214.15
3	0210-030-S	$2214.15
3	0210-030-T	$2214.15
4	0210-040-S	$2214.15
4	0210-040-T	$2214.15

Size (in.)	CPVC/FPM flanged Part #	Price $
1/2	0211-005	$615.20
3/4	0211-007	$615.20
1	0211-010	$615.20
1 1/4	0211-012	$1125.25
1 1/2	0211-015	$1125.25
2	0211-020	$1125.25
2 1/2	0211-025	$2797.50
3	0211-030	$2850.10
4	0211-040	$2945.10
6	0211-060	$6068.70
8	0211-080	$7995.85

Size (in.)	Eastar/FPM soc./thr. Part #	Price $
1/2	SBC050ST	$396.85
3/4	SBC075ST	$396.85
1	SBC100ST	$396.85
1 1/4	SBC125ST	$685.25
1 1/2	SBC150ST	$685.25
2	SBC200ST	$685.25

Size (in.)	Eastar/FPM flanged Part #	Price $
1/2	SBC050F	456.75
3/4	SBC075F	456.75
1	SBC100F	456.75
1 1/4	SBC125F	813.50
1 1/2	SBC150F	813.50
2	SBC200F	813.50

Size (in.)	Eastar/EPDM soc./thr. Part #	Price $
1/2	SBC050STE	$376.95
3/4	SBC075STE	$376.95
1	SBC100STE	$376.95
1 1/4	SBC125STE	$651.25
1 1/2	SBC150STE	$651.25
2	SBC200STE	$651.25

Size (in.)	Eastar/EPDM flanged Part #	Price $
1/2	SBC050FE	$434.90
3/4	SBC075FE	$434.90
1	SBC100FE	$434.90
1 1/4	SBC125FE	$773.90
1 1/2	SBC150FE	$773.90
2	SBC200FE	$773.90

Size (in.)	PP/FPM thr. Part #	Price $
1/2	0212-005	$430.05
3/4	0212-007	$475.85
1	0212-010	$475.85
1 1/4	0212-012	$820.40
1 1/2	0212-015	$820.40
2	0212-020	$820.40
2 1/2	0212-025	$1966.70
3	0212-030	$1966.70
4	0212-040	$2024.55

Size (in.)	PP/FPM flanged Part #	Price $
1/2	-	-
3/4	-	-
1	0213-010	$512.75
1 1/4	-	-
1 1/2	0213-015	$914.15
2	0213-020	$914.15
2 1/2	-	-
3	-	-
4	-	-





6" and 8" Design

1/2" thru 2" PVC and CPVC basket strainers are supplied with both socket and threaded end connectors. PVC and CPVC basket strainers are also available with EPDM seals but are not listed above. Please contact Sales office.

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Basket Strainers

HAYWARD Duplex Basket Strainers 1/2" - 8"



Note: Operates continuously, no shut down for basket cleaning or changing

Features
- External Body Threads
- Low Pressure Drop
- Wide Choice of Baskets
- In-Line or Loop Piping Design
- True Union Connections
- Ergonomic hand Removable Cover
- FPM Seals
- Integral, Flat Mounting Base
- Hand Removable Vent and Drain
- Liquid Displacing Cover

Options
- Stainless steel mesh strainer baskets
- Clear, see-through model Eastar
- EPDM seals

Note:
For all strainers (Simplex and Duplex) For 1/2", 3/4", & 1" Basket strainers standards perforation is 1/32". For 1 1/2" thru 8" Basket strainers standard perforation is 1/8".

Size	Material	Ends	Seal	Pressure Rating
1/2" to 4"	PVC, CPVC	Soc, Thd, Flg	FPM	150 psi @ 70°F non-shock
1/2" to 2"	Eastar	Soc, Thd, Flg	FPM	100 psi @ 70°F non-shock

Size	Cv Factors (Value)	Size	Cv Factors (Value)
1/2"	12.5	1 1/2"	45
3/4"	13	2"	48
1"	14	3"	200
1 1/4"	40	4"	230
For water with clean basket			



Large Size Duplex Basket Strainers
6" and 8" - PVC and Corzan® CPVC

Features
- External Cover Threads
- Low Pressure Drop
- Wide Choice of Baskets
- In-Line or Loop Piping Design
- True Union Connections
- Ergonomic hand Removable Cover
- FPM Seals
- Integral, Flat Mounting Base
- Hand Removable Vent and Drain
- Liquid Displacing Cover

Options
- Stainless steel mesh strainer baskets
- EPDM seals

Note:
For all strainers (Simplex and Duplex) For 1/2", 3/4", & 1" Basket strainers standards perforation is 1/32". For 1 1/2" thru 8" Basket strainers standard perforation is 1/8".

Size	Material	Ends	Seal	Pressure Rating
6" to 8"	PVC, CPVC	Flanged	FPM	150 psi @ 70°F non-shock

Size	Cv Factors (Value)	Size	Cv Factors (Value)
6"	900	8"	700
For water with clean basket			

Size (in.)	PVC/FPM soc./thr. Part #	Price $
1/2	0214-005	$1679.25
3/4	0214-007	$1679.25
1	0214-010	$1679.25
1 1/4	0214-012	$2614.55
1 1/2	0214-015	$2614.55
2	0214-020	$2614.55
2 1/2	0214-025-S	$6538.35
2 1/2	0214-025-T	$6538.35
3	0214-030-S	$6538.35
3	0214-030-T	$6538.35
4	0214-040-S	$6538.35
4	0214-040-T	$6538.35

Size (in.)	PVC/FPM flanged Part #	Price $
1/2	0215-005	$1719.55
3/4	0215-007	$1719.55
1	0215-010	$1719.55
1 1/4	0215-012	$2714.05
1 1/2	0215-015	$2714.05
2	0215-020	$2714.05
2 1/2	0215-025	$6792.20
3	0215-030	$6843.70
4	0215-040	$6956.05
6	0215-060	$16638.95
8	0215-080	$21354.95

Size (in.)	CPVC/FPM soc./thr. Part #	Price $
1/2	0216-005	$2566.50
3/4	0216-007	$2566.50
1	0216-010	$2566.50
1 1/4	0216-012	$4000.45
1 1/2	0216-015	$4000.45
2	0216-020	$4000.45
2 1/2	0216-025-S	$9865.65
2 1/2	0216-025-T	$9865.65
3	0216-030-S	$9865.65
3	0216-030-T	$9865.65
4	0216-040-S	$9865.65
4	0216-040-T	$9865.65

Size (in.)	CPVC/FPM flanged Part #	Price $
1/2	0217-005	$2620.60
3/4	0217-007	$2620.60
1	0217-010	$2620.60
1 1/4	0217-012	$4144.70
1 1/2	0217-015	$4144.70
2	0217-020	$4144.70
2 1/2	0217-025	$10373.80
3	0217-030	$10431.10
4	0217-040	$10545.80
6	0217-060	$24639.50
8	0217-080	$30317.90

1/2" thru 2" PVC and CPVC basket strainers are supplied with both socket and threaded end connectors. PVC and CPVC basket strainers are also available with EPDM seals but are not listed above. Please contact Sales office.

Strainer Baskets

HAYWARD Replacement Baskets for Simplex and Duplex Basket Strainers



For 1/2", 3/4", and 1"

Size (in.) perf,	PVC Part #	Price $
1/32	BS11001/32	$149.35
1/16	BS11001/16	$149.35
1/8	BS11001/8	$149.35
3/16	BS11003/16	$149.35

Size (in.) perf,	CPVC Part #	Price $
1/32	BS21001/32	$234.30
1/16	BS21001/16	$234.30
1/8	BS21001/8	$234.30
3/16	BS21003/16	$234.30

Size (in.) perf,	316 SS* Part #	Price $
1/32	BS7101/32	$328.50
1/16	BS7101/16	$328.50
1/8	BS7101/8	$328.50
3/16	BS7103/16	$328.50

Size (in.) mesh	316 SS* Part #	Price $
20	BS71020	$328.50
40	BS71040	$328.50
60	BS71060	$328.50
80	BS71080	$328.50
100	BS710100	$328.50

For 1 1/4",1 1/2", and 2"

Size (in.) perf,	PVC Part #	Price $
1/32	BS12001/32	$187.80
1/16	BS12001/16	$187.80
1/8	BS12001/8	$187.80
3/16	BS12003/16	$187.80

Size (in.) perf,	CPVC Part #	Price $
1/32	BS22001/32	$290.55
1/16	BS22001/16	$290.55
1/8	BS22001/8	$290.55
3/16	BS22003/16	$290.55

Size (in.) perf,	316 SS* Part #	Price $
1/32	BS7201/32	$407.50
1/16	BS7201/16	$407.50
1/8	BS7201/8	$407.50
3/16	BS7203/16	$407.50

Size (in.) mesh	316 SS* Part #	Price $
20	BS72020	$407.50
40	BS72040	$407.50
60	BS72060	$407.50
80	BS72080	$407.50
100	BS720100	$407.50

For 2 1/2", 3", and 4"

Size (in.) perf,	PVC Part #	Price $
1/32	BS14001/32	$477.05
1/16	BS14001/16	$477.05
1/8	BS14001/8	$477.05
3/16	BS14003/16	$477.05

Size (in.) perf,	CPVC Part #	Price $
1/32	BS24001/32	$732.75
1/16	BS24001/16	$732.75
1/8	BS24001/8	$732.75
3/16	BS24003/16	$732.75

Size (in.) perf,	316 SS* Part #	Price $
1/32	BS7401/32	$869.20
1/16	BS7401/16	$869.20
1/8	BS7401/8	$869.20
3/16	BS7403/16	$869.20

Size (in.) mesh	316 SS* Part #	Price $
20	BS74020	$869.20
40	BS74040	$869.20
60	BS74060	$869.20
80	BS74080	$869.20
100	BS740100	$869.20

For 6"

Size (in.) perf,	PVC Part #	Price $
1/32	BS16001/32	$1354.80
1/16	BS16001/16	$1354.80
1/8	BS16001/8	$1354.80
3/16	BS16003/16	$1354.80

Size (in.) perf,	CPVC Part #	Price $
1/32	BS26001/32	$1853.80
1/16	BS26001/16	$1853.80
1/8	BS26001/8	$1853.80
3/16	BS26003/16	$1853.80

Size (in.) perf,	316 SS* Part #	Price $
1/32	BS76001/32	$1804.10
1/16	BS76001/16	$1804.10
1/8	BS76001/8	$1804.10
3/16	BS76003/16	$1804.10

Size (in.) mesh	316 SS* Part #	Price $
20	BS76001420	$1685.65
40	BS76001440	$1685.65
60	BS76001460	$1685.65
80	BS76001480	$1685.65
100	BS760014100	$1685.65

For 8"

Size (in.) perf,	PVC Part #	Price $
1/32	BS18001/32	$1870.95
1/16	BS18001/16	$1870.95
1/8	BS18001/8	$1870.95
3/16	BS18003/16	$1870.95

Size (in.) perf,	CPVC Part #	Price $
1/32	BS28001/32	$2557.45
1/16	BS28001/16	$2557.45
1/8	BS28001/8	$2557.45
3/16	BS28003/16	$2557.45

Size (in.) perf,	316 SS* Part #	Price $
1/32	BS78001/32	$2466.35
1/16	BS78001/16	$2466.35
1/8	BS78001/8	$2466.35
3/16	BS78003/16	$2466.35

Size (in.) mesh	316 SS* Part #	Price $
20	BS78001420	$2303.20
40	BS78001440	$2303.20
60	BS78001460	$2303.20
80	BS78001480	$2303.20
100	BS780014100	$2303.20

*All Stainless steel baskets are made to order and non-returnable.

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Bag and Cartridge Filters

Hayward FLV and CFLV Series Bag and Cartridge Filters



FLV Series PVC and CPVC Bag Filters

Features:
- Available in PVC or CPVC Materials
- True Union End Connections - Socket, Threaded or Flanged
- Hand Removable, Ergonomic Cover with Liquid Displacing Dome
- Vent Valve Included On Cover
- 100 GPM Flow Capacity
- In-Line or Loop Flow Configurations
- Solid 1-Piece Basket
- Drain Port at Bottom
- Integral Mounting Base

Options:
- Pressure Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM O-Ring Seals



FLV Series GFPP Bag and Cartridge Filters

Features:
- Platinum GFPP Material
- Hand-Removable Ergonomic Cover with Liquid Displacing Dome
- 1-Piece Injection Molded Construction
- Vent Valve on Cover
- 100 - 150 GPM Flow Capacity
- In-Line or Loop Configuration
- Hinged Basket for Easy Bag Removal
- Drain Port at Bottom
- Integral Mounting Base

Options:
- Pressure Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM O-Ring Seals
- Cartridge Adapters
- Hinged Basket
- 316 Stainless Steel Basket

4

Contact Sales Department for Pricing
1-800-849-3030



CFLV Series GFPP Cartridge Filters

Features:
- Platinum GFPP Material
- Hand-Removable Ergonomic Cover with Liquid Displacing Dome
- 1-Piece Injection Molded Construction
- Vent Valve on Cover
- 100 - 150 GPM Flow Capacity
- In-Line or Loop Configuration
- Drain Port at Bottom
- Integral Mounting Base

Options:
- Vent Gauge with Gauge Guard
- Pressure Differential Gauge and Switch
- EPDM O-Ring Seals
- Cartridge Adapters



Filter Assemblies

Filter Lengths:
- Single - 7" x 16" 1-1/4" to 2" Pipe Sizes
- Double - 7" x 32" 1-1/4" to 4" Pipe Sizes

PSI:
- 150 PSI @ 70°F Non-Shock

Assemblies:
- FLV Series PVC and CPVC: Duplex Assemblies Available
- FLV Series GFPP: Duplex and Triplex Assemblies Available
- CFLV Series GFPP: Duplex, Triplex and Quadplex Assemblies Available



Needled Felt and Monofilament Mesh Filter Bags

Features:
- 1 to 800 Micron Ratings
- Silicone Free Bags and Thread
- Needle Felt and Monofilament Mesh Materials
- Sewn Construction has Two Rows of Stitching
- Sewn Construction has Sewn-In PP Ring
- Welded Construction Fuses the Bag Together to Form a Strong Seal
- Welded Construction Has PP Flange and PP Handles



Pleated Filter Cartridges

Features:
- Multiple Micron Ratings for High Efficiency Filtration
- Available in 2-1/2" and 7" Diameters, Single and Double Length
- High Surface Area Design Provides Excellent Flow Rates and Comprehensive Service Life
- Thermally Bonded DOE End-Caps, Core and Filter Media
- Low Pressure Drop
- Multiple Layered Media Construction Guarantees Dependable Performance

Options:
- Cartridge Adapters Available

Sight Glasses

Plast-O-Matic® Sight Glasses - Series GX, GY, GYW and GL



GX and GY NPT

For safe, positive indication of flow and clarity of corrosive or ultra-pure liquids. Available with vinyl streamers to help detect flow. Series “GX” has only an acrylic cylinder wall for economy. Series “GY” has an acrylic outer cylinder protecting a Pyrex inner cylinder. Sizes 1/2" to 3" NPT. Series “GYW” offers safe and positive indication of flow or clarity of corrosive or ultra-pure liquids in larger piping systems. Double wall construction. Fits between standard companion flanges. Sizes 1 1/2" to 8" pipe.

Quick visual verification of tank level. GL has acrylic exterior with Pyrex® inner cylinder suitable for harsh chemicals and high purity applications. Lengths from 1 to 4 feet, PVC, natural polypro or PTFE connections in 1/2" or 3/4" NPT.



GYW Wafer



GL NPT

Features:

- Large 360° viewing area
- Series GY, GYW and GL have double wall Pyrex® and acrylic construction for maximum safety.
- Full flow design; no corners to collect debris.
- Wide choice of select plastic materials to assure maximum chemical compatibility.
- Designed to withstand reasonable external shocks.
- Little or no maintenance required.
- No special hardware required for installation; completely assembled and pre-tested.

Single Cylinder Wall / FKM / NPT - Series GX

Size (in.)	PVC #	Price $	PP #	Price $
1/2	5400	184.00	5421	221.00
3/4	5403	195.00	5424	231.00
1	5406	206.00	5427	261.00
1 1/4	5409	253.00	5430	327.00
1 1/2	5412	275.00	5433	358.00
2	5415	333.00	5436	447.00
3	5418	597.00	5439	688.00

Double Cylinder Wall / FKM / NPT - Series GY

Size (in.)	PVC #	Price $	PP #	Price $
1/2	5442	223.00	5456	270.00
3/4	5444	234.00	5458	281.00
1	5446	246.00	5460	304.00
1 1/4	5448	311.00	5462	395.00
1 1/2	5450	361.00	5464	453.00
2	5452	410.00	5466	534.00
3	5454	740.00	5468	958.00

Single Cylinder Wall / EPDM / NPT - Series GX

Size (in.)	PVC #	Price $	PP #	Price $
1/2	5401	178.00	5422	208.00
3/4	5404	190.00	5425	221.00
1	5407	200.00	5428	251.00
1 1/4	5410	242.00	5431	314.00
1 1/2	5413	264.00	5434	346.00
2	5416	321.00	5437	435.00
3	5419	585.00	5440	676.00

Double Cylinder Wall / EPDM / NPT - Series GY

Size (in.)	PVC #	Price $	PP #	Price $
1/2	5443	212.00	5457	258.00
3/4	5445	223.00	5459	270.00
1	5447	235.00	5461	294.00
1 1/4	5449	300.00	5463	385.00
1 1/2	5451	350.00	5465	443.00
2	5453	398.00	5467	523.00
3	5455	729.00	5469	947.00

Double Cylinder Wall / FKM / Wafer - Series GYW

Size (in.)	PVC #	Price $	CPVC #	Price $	PP #	Price $	PTFE #	Price $	PVDF #	Price $
1 1/2	GYW150V-PV	433.00	GYW150V-CP	603.00	GYW150V-PP	489.00	GYW150V-TF	798.00	GYW150V-PF	1142.00
2	GYW200V-PV	498.00	GYW200V-CP	747.00	GYW200V-PP	568.00	GYW200V-TF	982.00	GYW200V-PF	1551.00
3	GYW300V-PV	660.00	GYW300V-CP	879.00	GYW300V-PP	718.00	GYW300V-TF	1436.00	GYW300V-PF	2239.00
4	GYWX400V-PV	929.00	GYWX400V-CP	1206.00	GYWX400V-PP	1022.00	GYWX400V-TF	1951.00	GYWX400V-PF	2875.00
6	GYWX600V-PV	1038.00	GYWX600V-CP	1436.00	GYWX600V-PP	1142.00	GYWX600V-TF	2181.00	GYWX600V-PF	3477.00
8	GYWX800V-PV	1119.00	GYWX800V-CP	1722.00	GYWX800V-PP	1320.00	GYWX800V-TF	2411.00	GYWX800V-PF	3812.00

Double Cylinder Wall Level Indicator / NPT - Series GL

Size (in.)	Length (ft.)	PVC #	Price $	PP #	Price $	PTFE #	Price $
1/2	1	GL050PV1	362.00	GL050PP1	416.00	GL050TF1	601.00
1/2	2	GL050PV2	505.00	GL050PP2	564.00	GL050TF2	730.00
1/2	3	GL050PV3	654.00	GL050PP3	722.00	GL050TF3	894.00
1/2	4	GL050PV4	803.00	GL050PP4	874.00	GL050TF4	1050.00
3/4	1	GL075PV1	364.00	GL075PP1	437.00	GL075TF1	614.00
3/4	2	GL075PV2	520.00	GL075PP2	602.00	GL075TF2	745.00
3/4	3	GL075PV3	674.00	GL075PP3	742.00	GL075TF3	916.00
3/4	4	GL075PV4	814.00	GL075PP4	886.00	GL075TF4	1066.00

ALSCO Clear PVC Schedule 40 Sight Glasses



Description:
These clear plastic sight glasses are custom manufactured at ALSCO Industrial Products in Lithia Springs, GA. They are available for same day shipping in sizes from 1/2" to 6". Bulk quantities and custom sizes are available upon request. Contact sales at 770-941-3030.



Clear PVC / EPDM / Inline Sight Glass / Skt x Skt

Size (in.)	Length (in.)	White Union Viewable (in.)	White Union Part #	Price $	Clear Union Part #	Price $
1/2	8	4 1/8	CSG-005	12.00	CCSG-005	18.95
3/4	8	4 1/8	CSG-007	15.00	CCSG-007	24.21
1	10	5	CSG-010	20.00	CCSG-010	32.63
1 1/4	12	4 1/2	CSG-012	30.00	CCSG-012	45.26
1 1/2	12	4 1/2	CSG-015	30.00	CCSG-015	52.63
2	12	4 3/4	CSG-020	35.00	CCSG-020	71.05
2 1/2	12	3	CSG-025	40.00	N/A	N/A
3	14	5	CSG-030	85.00	N/A	N/A
4	18	6	CSG-040	110.00	N/A	N/A
6	24	10	CSG-060	265.00	N/A	N/A

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Sight Glass Strainer

Complete Sight Glass Strainer Assembly



Sight Glass is made from a tough polycarbonate material and has a temperature rating of (-50°F to +185°F). It has a 500 PSI rating and allows for viewing of materials at all times.

Funnel Strainer is made of 304 stainless steel and offers a unique one-piece design which includes a pre-attached buna gasket for better sealing and ease of assembly. It is designed to be used with female quick-acting couplings.

A popular installation set up for the Sight Glass and Funnel Strainer is the Funnel Strainer assembled with an aluminum type “D” coupling and the Sight Glass with an aluminum type “A” coupling.

Warning: Never use a wrench on the Sight Glass - always tighten the connecting pieces.

Complete Sight Glass Strainer Assembly

Size (in.)	Part #	Price $
2	SSA200AL	52.39
3	SSA300AL	88.12
4	SSA400AL	164.40

All prices subject to change without notice.

Flowmeters

GF Industrial Flowmeters



Variable area flow meters from GF Piping Systems are radially installed dismountable meters for flow measuring in industrial piping applications. The measurement ranges, which are attuned to our customers' needs, and the range of materials available for the tubes and connection ends, mean that the flow meters can be used for a wide range of applications and a great variety of media.

All the flow meters are equipped with a double scale: a percentage scale as well as a scale for the flow volume in l/h for water. Special scales are on offer for m³/h, GPM, in addition to special graduations for HCL, NaOH, air and can be affixed on taper tubes without scales subsequently. Measuring accuracy falls in the accuracy class 4 according to VDE/VDI 3513 Part 2.

Features:

- End connections from 3/8" to 2 1/2" (socket, threaded and flanged) in PVC, PP and PVDF
- Tubes available in Polyamide (PA) and Polysulphone (PSU)
- Scales available in GPM, LPH, Percentage (10-100%), SCFM and m3/h
- Accuracy 3% of full scale, 1% of measured range
- Rated pressure 150 psi at 68° F
- Rated Temperature 32° - 140° F (PA and PSU with PVC ends); 32° - 194° F (PSU with PP ends); 32° - 212° F (PSU with PVDF ends)
- Seal materials in EPDM or FPM

GF Industrial Flowmeters

Size (in.)	Water		Tube Material	Float Material	Seals	Part #	Price $
	GPM	LPH					
1	0.22 - 2.2	50 - 500	Polysulphone	PVDF	FPM	5100-PV	260.00
1	0.44 - 4.4	100 - 1000	Polysulphone	PVDF	FPM	5101-PV	260.00
1 1/2	1.3 - 13.0	300 - 3000	Polysulphone	PVDF	FPM	5102-PV	346.00
1 1/2	2.6 - 26.0	600 - 6000	Polysulphone	PVDF	FPM	5103-PV	377.00
2	4.4 - 44.0	1,000 - 10,000	Polysulphone	PVDF	FPM	5104-PV	551.00
2	6.6 - 66.0	1,500 - 15,000	Polysulphone	PVDF	FPM	5105-PV	551.00

NOTE: PV = PVC socket. Other connections and materials are available.

Plast-O-Matic Thermoplastic Calibration Columns



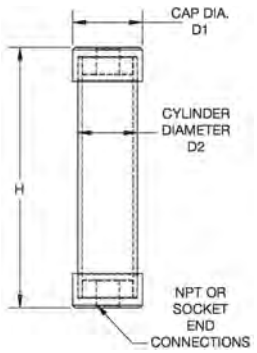
Plast-O-Matic thermoplastic calibration columns are a quick and convenient way to measure or verify pump flow rates, chemical dosing, or chemical feed systems with higher accuracy than competitive models. Designed for precise, efficient testing with a variety of installation options.

Features:

- UV Resistant PVC Construction for wide range of liquids - no metal or elastomer components
- Pressure rated to 75 PSI
- Sixty second test period provides superior accuracy to shorter test periods
- Direct readings in GPH and mL/minute
- Wide range of cylinder volumes available - 100 mL to 4000 mL
- Highly visible/high contrast graduations
- Graduations have clear mylar overlay for added protection in harsh chemical environments; label resists shrinkage and temperature damage
- NPT threaded connections standard; BSP threads, sockets, flanges, union ends and other connections available
- Options include welded isolation ball valve on one or both ends and loose fit slip removable top cap for convenient cleaning

Thermoplastic Calibration Columns

Size (in.)	Flow Capacity	Graduations	H (in.)	D1 (in.)	D2 (in.)	Part #	Price $
1/2	100 mL /min/1.8 GPH	2 mL / 0.05 GPH	13.80	1.73	1.32	CC100-PV	85.00
1/2	250 mL /min/4 GPH	5 mL / 0.1 GPH	16.00	2.08	1.66	CC250-PV	105.00
3/4	500 mL /min/8 GPH	10 mL / 0.1 GPH	14.80	2.80	2.38	CC500-PV	125.00
3/4	1000 mL /min/16 GPH	10 mL / 0.1 GPH	24.25	2.80	2.38	CC1000-PV	145.00
1	2000 mL /min/32 GPH	20 mL / 0.2 GPH	22.38	3.94	3.50	CC2000-PV	195.00
1	4000 mL /min/ 64 GPH	20 mL / 0.2 GPH	30.85	4.47	4.00	CC4000-PV	250.00



BLUE-WHITE® Flowmeters

F- 400N SERIES IN - LINE FLOWMETERS



General Description

This unit offers individual, handmade quality, combined with excellent accuracy and repeatability. F-400 series flowmeters are machined of high quality acrylic rod stock, and carefully polished to a clear-as-glass finish. Easy to read scales are screen printed on the meter body. Adapters are reinforced with * aluminum stress rings for added strength, and o-ring seals are Fpm.

An exceptional flowmeter at a remarkable price!

* On 1-10, 1-17 and 5-21 GPM models only.

Specifications

- Accuracy: ± 5%
- Material of Construction (meter body): Machined acrylic
- 150 psi @ 73°F
- Range: 0.025 to 21 GPM

Applications

- Hydroponic systems
- Electronic and microchip procession equip.
- D.I. and ultrapure water systems
- Pollution monitoring and control equipment
- Photo and x-ray processing equipment
- Water and wastewater treatment equip.
- Chemical procession equipment

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5106	0.025 - 0.250	0.1 - 1.0	1/4" FPT	$ 111.29
5107	0.025 - 0.250	0.1 - 1.0	3/8" FPT	111.29
5108	0.1 - 1.0	0.4 - 4.0	3/8" FPT	95.18
5109	0.1 - 1.0	0.4 - 4.0	1/2" FPT	95.18
5110	0.2 - 2.0	1.0 - 7.5	3/8" FPT	95.18
5111	0.2 - 2.0	1.0 - 7.5	1/2" FPT	95.18
5112	0.3 - 3.0	1.5 - 11.5	3/8" FPT	102.62
5113	0.3 - 3.0	1.5 - 11.5	1/2" FPT	102.62

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5114	00.5 - 5.0	1.8 - 18	3/8" FPT	$ 95.18
5115	0.5 - 5.0	1.8 - 18	1/2" FPT	95.18
5116	1.0 - 10	4.0 - 38	3/4" FPT	183.36
5117	1.0 - 10	4.0 - 38	1" FPT	183.36
5118	1.0 - 17	—	3/4" FPT	183.36
5119	1.0 - 17	—	1" FPT	183.36
5120	5.0 - 21	8.0 - 78	3/4" FPT	183.36
5121	5.0 - 21	8.0 - 78	1" FPT	183.36

F- 440 SERIES FLOWMETERS



General Description

These compact, durable units are injection molded of heat and chemical resistant Polysulfone. They feature Quik Loc (half union) connectors that couple the meter body to the pipe connectors at each end of the flowmeter.

F-440 series units are available in configurations for in-line or panel mount installation. Additionally, F-440 units may be ordered with an integral, adjustable flow control needle metering valve.

A versatile and economic flowmeter.

Specifications

- Accuracy: ± 5%
- Material of Construction (meter body): Molded Polysulfone
- 180 psi @ 73°F
- Range: 0.025 to 5.0 GPM

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5122	0.025 - 0.250	0.1 - 1.0	3/8" MPT	$ 90.53
5123	0.025 - 0.250	0.1 - 1.0	1/2" MPT	90.53
5124	0.1 - 1.0	0.4 - 4.0	3/8" MPT	90.53
5125	0.1 - 1.0	0.4 - 4.0	1/2" MPT	90.53
5126	0.2 - 2.0	0.750 - 7.5	3/8" MPT	90.53
5127	0.2 - 2.0	0.750 - 7.5	1/2" MPT	90.53
5128	0.5 - 5.0	1.8- 18	3/8" MPT	90.53
5129	0.5 - 5.0	1.8 - 18	1/2" MPT	90.53

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5130	1.0 - 10	5.0 - 37.5	3/4" MPT	$ 104.32
	GPH			
5131	3.0 - 30	—	3/8" MPT	90.53
5132	3.0 - 30	—	1/2" MPT	90.53
5133	5.0 - 60	—	3/8" MPT	90.53
5134	5.0 - 60	—	1/2" MPT	90.53

BLUE-WHITE® Flowmeters



F- 440E Units for Panel Mount Installation

General Description

The panel mount F-400E (E=Elbow) flowmeters come equipped with 90° adapters for panel mount installation. Installation is easy. Drill two holes in the panel, insert meter fittings through the holes, and secure with the provided lock nuts. The elbows come with MPT or barbed connections.

Specifications

- Accuracy: ± 5%
- Material of Construction (meter body): Molded Polysulfone
- O-Ring Material: Fpm®
- 120 psi @ 73°F
- Scale Range: 0.025 to 0.250

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5135	0.025 - 0.250	0.1 - 1.0	3/8" MPT	$ 108.88
5136	0.025 - 0.250	0.1 - 1.0	1/2" MPT	108.88
5137	0.1 - 1.0	0.4 - 4.0	3/8" MPT	108.88
5138	0.1 - 1.0	0.4 - 4.0	1/2" MPT	108.88
5139	0.1 - 1.0	0.4 - 4.0	1/2" I.D. Barbed	100.67
5140	0.2 - 2.0	0.75 - 7.5	3/8" MPT	108.88
5141	0.2 - 2.0	0.75 - 7.5	1/2" MPT	108.88
5142	0.2 - 2.0	0.75 - 7.5	1/2" I.D. Barbed	100.67

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5143	0.5 - 5.0	1.8 - 18	3/8" MPT	$ 108.88
5144	0.5 - 5.0	1.8 - 18	1/2" MPT	108.88
5145	0.5 - 5.0	1.8 - 18	1/2" I.D. Barbed	100.67
5146	1.0 - 10	5.0 - 37.5	1/2" MPT	127.23
5147	1.0 - 10	5.0 - 37.5	3/4" MPT	127.23
5148	1.0 - 10	5.0 - 37.5	1/2" I.D. Barbed	117.65
5149	1.0 - 10	5.0 - 37.5	5/8" I.D. Barbed	117.65

F- 440EA Adjustable Panel Mount Flowmeters



General Description

The panel mount F-440EA (A=Adjustable) models have an integral adjustable flow control needle valve. The valve construction is of injection molded Polysulfone. The PVC needle valve has double o-ring packing on the stem, and a 15° valve stem point for greater flow control. These units also come with MPT or barbed connections. Any number of configurations are possible.

Specifications

- Accuracy: ± 5%
- Material of Construction (meter body): Molded Polysulfone
- O-Ring Material: Fpm®
- 120 psi @ 73°F
- Scale Range: 0.025 to 0.250

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5150	0.025 - 0.250	0.1 - 1.0	1/2" MPT	$ 161.62
5151	0.1 - 1.0	0.4 - 4.0	1/2" MPT	161.62
5152	0.2 - 2.0	.75 - 7.5	1/2" MPT	161.62
5153	0.5 - 5.0	1.8- 18	1/2" MPT	161.62
5154	1.0 - 10	5.0 - 3.75	3/4" MPT	180.04
	GPH			
5155	3 - 30	—	1/2" MPT	161.62
5156	5 - 60	—	1/2" MPT	161.62

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BLUE-WHITE® Flowmeters

F- 451 Series High Volume In-Line Units



General Description

F-451 series flowmeters offer excellent accuracy and repeatability, combined with a durable injection molded Polysulfone meter body and connectors, and # 316 stainless steel internal parts. Half unions couple the meter body to the 1" FPT connectors at each end of the flowmeter. This configuration facilitates both installation and maintenance.

It's tough to beat the quality and economy of the F-451 series.

Specifications

- Accuracy: ± 3%
- Material of Construction (meter body): Molded Polysulfone
- O-Ring Material: Fpm®
- 150 psi @ 73°F

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5157	1.0 - 10	3.0 - 38	1" FPT	312.31
5158	2.0 - 20	7.5 - 75	1" FPT	327.75
5159	3.0 - 30	12 - 115	1" FPT	359.13
5160	4.0 - 40	15 - 155	1" FPT	377.00

Units with 90° Elbows

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5161	1.0 - 10	3.0 - 38	1" FPT	361.54
5162	2.0 - 20	7.5 - 75	1" FPT	375.58
5163	3.0 - 30	12 - 115	1" FPT	404.12
5164	4.0 - 40	15 - 115	1" FPT	420.27
	Calibration SCFM			
5165	80 to 80		1" FPT	303.06

4

F- 452 Series Flowmeters



General Description

The newest addition to our Polysulfone flowmeter line offers excellent accuracy and repeatability and pride-of-workmanship ... all at a realistic price!

F-452 units have 2" FPT adapters, Fpm O-Ring seals, and # 316 stainless steel internal parts. Half Union connectors couple the meter body to the 2" FPT adapters at each end of the flowmeter.

The F-452 series offers many of the capabilities of glass and metal flowmeters that cost many times more.

F-452 units are available Specially Equipped for hostile environments.

Specifications

- Accuracy: ± 3%
- Material of Construction (meter body): Molded Polysulfone
- O-Ring Material: Fpm®
- 150 psi @ 73°F
- Capacities: Up to 130 GPM
- Adapter Size: 2" FPT

Part #	Calibration		Adapter	Price
	GPM	LPM	Size	$
5166	2.0 - 20	—	2" FPT	$ 632.77
5167	6.0 - 60	30 - 230	2" FPT	632.77
5168	10 - 80	40 - 300	2" FPT	632.77
5169	5.0 - 100	20 - 380	2" FPT	632.77
5170	15 - 130	60 - 500	2" FPT	673.28
5171	20 - 175	—	2" FPT	673.28
	Calibration SCFM			
5172	30 - 230		2" FPT	585.09

BLUE-WHITE® Flowmeters

F-550 Series - Machined Panel Mount Flowmeters



F-550

Description:
- Durable, highly polished, one piece meter body
- Annealed for added strength and chemical resistance
- Acceptable for outdoor installations (acceptable in direct sunlight)
- Bulkhead nuts attach directly to inside panel
- Optional adjustable flow control: needle-type adjustment valve
- Direct reading permanent scale
- White back reflector for easy reading
- 316 stainless, PTFE or Hastelloy floats and float guides

Specifications:
- Max. Working Pressure: 250 psig @ 70° F
- Max. Fluid Temperature: 200° F @ 0 PSI
- Full Scale Accuracy: +/- 5%
- Meter Body Material: Machined Acrylic
- Adapter Material: Polypropylene
- Guide Rod Material: 316 SS or Hastelloy C-276
- O-ring Material: FKM (Optional EP)



F-550A with Integral Flow Adjustment Valve

Panel Mount - F-550 Flowmeters

Adapter Size (in.)	GPM	LPM	Float Material	F-550 Standard #	Price $	F-550 with Adj. Valve #	Price $
1/4 M/NPT	0.025 - 0.25	0.1 - 1	316 SS	F-55250L	111.83	F-55250LA	165.36
3/8 M/NPT	0.1 - 1	0.4 - 4	316 SS	F-55375L	108.57	F-55375LA	152.04
1/2 BARB	0.1 - 1	0.4 - 4	316 SS	F-55375L-BRB	109.79	F-55375LA-BRB	162.21
3/8 M/NPT	0.2 - 2	0.75 - 7.5	316 SS	F-55376L	108.57	F-55376LA	152.04
1/2 BARB	0.2 - 2	0.75 - 7.5	316 SS	F-55376L-BRB	109.79	F-55376LA-BRB	149.99
1/2 M/NPT	0.5 - 5	2 - 20	316 SS	F-55500L	108.57	F-55500LA	152.04
1/2 BARB	0.5 - 5	2 - 20	316 SS	F-55500L-BRB	118.74	F-55500LA-BRB	162.21
3/4 M/NPT	1 - 10	4 - 40	316 SS	F-55750L	128.74	F-55750LA	211.89
1 M/NPT	1 - 5	3 - 18	PTFE	F-55005L	153.32	N/A	N/A
1 M/NPT	1 - 10	4 - 40	316 SS	F-55010L	153.32	F-55010LA	224.33
1 M/NPT	1 - 15	5 - 60	316 SS	F-55015L	153.32	F-55015LA	224.33
1 M/NPT	2 - 20	7.5 - 75	316 SS	F-55200L	153.32	F-55200LA	224.33

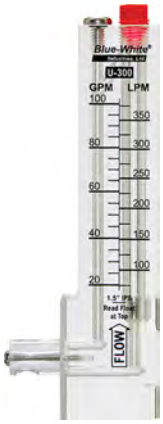
F-300 Series - Machined Acrylic Flowmeters

Model Variations:
- F-300 = Horizontal flow
- D-300 = Vertical down flow
- U-300 = Vertical up flow
- Well suited for closed pipe installations
- Easy to read dual scale (GPM / LPM), screen printed on both sides of the meter body
- Acceptable for outdoor installations (direct sunlight okay)
- Pitot Tube (impact tube) design makes it easy to install on existing pipe
- One piece, machined acrylic meter body, annealed for added strength and chemical resistance
- Included SS clamps and gasket seal
- Standard and Low Flow options available
- For use on PVC or Copper Pipes

Specifications:
- Max. Working Pressure: 150 PSI @ 70˚F
- Max. Fluid Temperature: 190˚F @ 0 PSI
- Full Scale Accuracy: +/- 10%
- Meter Body Material: Acrylic
- Gasket Material: Neoprene
- Float Material: 316 SS (PTFE low flow units)
- Connection Type: Saddle
- Pipe Capability: PVC Schedule 40 and Schedule 80 (12% higher reading on sch 80 pipe)
- Copper Tube Type “K” and “L”



F-300



U-300

Horizontal Pipe Installation - F-300 Flowmeters

Size (in.)	Standard Flow Range				Price $	Low Flow Range				Price $
	GPM	LPM	Pipe #	Tubing #		GPM	LPM	Pipe #	Tubing #	
1	5 - 35	20 - 140	5173	5175	86.18	2 - 10	8 - 38	5174	5176	86.18
1 1/4	15 - 75	60 - 280	5177	5179	86.18	5 - 35	30 -130	5178	5180	86.18
2 1/2	60 - 240	225 - 900	5189	5190	105.71	N/A	N/A	N/A	N/A	N/A
3	80 - 300	300 - 1125	5191	5193	119.13	40 - 140	160 - 520	5192	5194	119.13
4	125 - 500	550 - 2000	5195	5196	129.97	N/A	N/A	N/A	N/A	N/A
6	250 - 1050	900 - 3900	5197	5198	210.17	N/A	N/A	N/A	N/A	N/A
8	500 - 1900	2000 - 7200	5199	5200	233.63	N/A	N/A	N/A	N/A	N/A

Vertical Down Flow Pipe Installation - F-300 Flowmeters

Size (in.)	Standard Flow Range				Price $	Low Flow Range				Price $
	GPM	LPM	Pipe #	Tubing #		GPM	LPM	Pipe #	Tubing #	
1 1/2	20 - 100	75 - 375	D-30150P	D-30150T	105.08	9 - 30	30 - 120	D-30150PR	D-30150TR	105.08
2	40 - 150	150 - 550	D-30200P	D-30200T	113.25	18 - 70	70 - 280	D-30200PR	D-30200TR	113.25

Vertical Up Flow Pipe Installation - F-300 Flowmeters

Size (in.)	Standard Flow Range				Price $	Low Flow Range				Price $
	GPM	LPM	Pipe #	Tubing #		GPM	LPM	Pipe #	Tubing #	
1 1/2	20 - 100	75 - 375	U-30150P	U-30150T	105.08	9 - 30	30 - 120	U-30150PR	U-30150TR	105.08
2	40 - 150	150 - 550	U-30200P	U-30200T	113.25	18 - 70	70 - 280	U-30200PR	U-30200TR	113.25

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BLUE-WHITE® Flowmeters

Digi-Meter® F-1000 Series - Paddlewheel Flowmeters



F-1000 with Saddle Mount



F-1000 with Solvent Tee Body

PVC Saddle Mount Specifications:
- Max. Working Pressure: 300 psig @ 70°F
- Max. Fluid Temperature: 140° F @ 0 PSI
  - 200° F @ 0 PSI - all PVDF saddle fittings
  - 140° F @ 0 PSI - all PVC saddle fittings
- Full Scale Accuracy: +/- 2%
- Saddle Material:
  - PVDF - 1 1/2", 2", 3"
  - PVC - all other sizes
- Sensor/Paddle/Axel Material: PVDF
- O-ring Material: FKM
- Max. Pressure Drop: 0 PSI

PVC Solvent Tee Specifications:
- Max. Working Pressure: 200 psig @ 70°F
- Max. Fluid Temperature: 140° F @ 0 PSI
- Full Scale Accuracy: +/- 2%
- Sensor/Paddle/Axel Material: PVDF
- O-ring Material: FKM
- Max. Pressure Drop: 0 PSI

Three versions of the Blue White Digi-Meter® F-1000 are offered. The F-1000RB Unit is a rate meter only; the F-1000TB Unit is a flow totalizer; and the F-1000RT Unit is both a Rate Meter and Flow Totalizer. Blue White Digi-Meters are available with a number of configurations and mounting style options.

Features:
- 3 model variations:
  - RB = Rate Only
  - TB = Total Only
  - RT = Rate & Totalizer
- Easy to read 6 digit LCD, up to 4 decimal positions
- Battery Operated (2 AAA batteries included)
- Acceptable for Vertical or Horizontal Instalation
- Total Reset function can be disabled
- Display update time: Rate 1.5 sec., Total 0.5 sec.
- Factory calibrated – Nothing to program
- NEMA 4X weather resistant enclosure
- LCD not recommended for direct sunlight exposure

Note: Temperature rating of F-1000 only. Actual pipe rating may vary.
Maximum continuous flow should not occur in the upper 25% of the flow range.

4

F-1000 Models for Saddle Mounting on Schedule 40 and Schedule 80 U.S. IPS Pipe (ASTM 1785)

Size (in.)	Flow Range GPM	RB Models - Rate Only		Price $	TB Models - Total Only		Price $	RT Models - Rate & Total		Price $
		Schedule 40 #	Schedule 80 #		Schedule 40 #	Schedule 80 #		Schedule 40 #	Schedule 80 #	
1 1/2	15 - 150	RB-150S4-GPM1	RB-150S8-GPM1	331.56	TB-150S4-GPM1	TB-150S8-GPM1	355.26	RT-150S4-GPM1	RT-150S8-GPM1	528.93
2	30 - 300	RB-200S4-GPM1	RB-200S8-GPM1	331.56	TB-200S4-GPM1	TB-200S8-GPM1	355.26	RT-200S4-GPM1	RT-200S8-GPM1	528.93
2 1/2	40 - 400	RB-250S4-GPM1	RB-250S8-GPM1	371.04	TB-250S4-GPM1	TB-250S8-GPM1	394.73	RT-250S4-GPM1	RT-250S8-GPM1	568.40
3	60 - 600	RB-300S4-GPM1	RB-300S8-GPM1	331.56	TB-300S4-GPM1	TB-300S8-GPM1	355.26	RT-300S4-GPM1	RT-300S8-GPM1	528.93
4	100 - 1000	RB-400S4-GPM1	RB-400S8-GPM1	371.04	TB-400S4-GPM1	TB-400S8-GPM1	394.73	RT-400S4-GPM1	RT-400S8-GPM1	568.40
6	250 - 2500	RB-600S4-GPM1	RB-600S8-GPM1	371.04	TB-600S4-GPM1	TB-600S8-GPM1	394.73	RT-600S4-GPM1	RT-600S8-GPM1	568.40
8	400 - 4000	RB-800S4-GPM1	RB-800S8-GPM1	371.04	TB-800S4-GPM1	TB-800S8-GPM1	394.73	RT-800S4-GPM1	RT-800S8-GPM1	568.40
10	600 - 6000	RB-1000S4-GPM1	RB-1000S8-GPM1	386.85	TB-1000S4-GPM1	TB-1000S8-GPM1	410.51	RT-1000S4-GPM1	RT-1000S8-GPM1	584.17
12	800 - 8000	RB-1200S4-GPM1	RB-1200S8-GPM1	386.85	TB-1200S4-GPM1	TB-1200S8-GPM1	410.51	RT-1200S4-GPM1	RT-1200S8-GPM1	584.17

F-1000 Models for Mounting on Solvent Weld PVC Tee

Size (in.)	Flow Range GPM	Flow Range LPM	RB Models - Rate Only		Price $	TB Models - Total Only		Price $	RT Models - Rate & Total		Price $
			GPM #	LPM #		GPM #	LPM #		GPM #	LPM #	
1	6 - 60	25 - 250	RB-100AT-GPM1	RB-100AT-LPM1	331.56	TB-100AT-GPM1	TB-100AT-LPM1	355.26	RT-100AT-GPM1	RT-100AT-LPM1	528.93
1 1/2	15 - 150	60 - 600	RB-150AT-GPM1	RB-150AT-LPM1	331.56	TB-150AT-GPM1	TB-150AT-LPM1	355.26	RT-150AT-GPM1	RT-150AT-LPM1	528.93
2	30 - 300	100 - 1000	RB-200AT-GPM1	RB-200AT-LPM1	331.56	TB-200AT-GPM1	TB-200AT-LPM1	355.26	RT-200AT-GPM1	RT-200AT-LPM1	528.93
3	60 - 600	230 - 2300	RB-300AT-GPM1	RB-300AT-LPM1	378.02	TB-300AT-GPM1	TB-300AT-LPM1	401.71	RT-300AT-GPM1	RT-300AT-LPM1	575.38

All prices are subject to change without notice.

GF Signet Instrument Specifications



9950



9900



9900-1BC



8900

	9950	9900	9900-1BC	8900
Description	Dual Channel Transmitter	Single-Channel, Multi-Parameter Transmitter	Single-Channel, Single Parameter Controller	Multi-Channel, Multi-Parameter Controller
Modular Components	Yes	Yes	Yes	Yes
Number of Totalizers	2 Permanent 2 Resettable	1 Permanent 1 Resettable	N/A	6 Permanent 6 Resettable
Max. Sensor Inputs	2	1	1	(up to 2 frequency) 6 total sensor inputs
Mounting Options	Panel, Wall	Panel, Wall, Pipe, Tank	Panel	Panel
Display	LCD with two horizontal digital bar graphs	LCD with digital bar graph	LCD with digital bar graph	LCD
Analog Output Types	(2) Passive 4 to 20 mA	Passive 4 to 20 mA	(2) Passive 4 to 20 mA	(4) Passive/Active 4 to 20 mA or (4) 0 to 5/10 VDC
Max. Relays / O.C.	3 dry-contact relays 1 solid-state relay	1 open collector 2 relays (optional relay module)	1 open collector 2 relays	up to 8 relays (via 8059)
Derived Measurements	N/A	N/A	N/A	Sum, Difference, % Recovery, % Reject, % Passage, Ratio, Power (BTU)
Languages	English	English	English	English, French, German, Spanish, Italian, and Portuguese
Operating Temperature (°C)	DC -10 °C to 70 °C AC -10 °C to 60 °C	-10 °C to 70 °C	-10 °C to 70 °C	LCD: -10 °C to 55 °C
Operating Temperature (°F)	DC 14 °F to 158 °F AC 14 °F to 140 °F	14 °F to 158 °F	14 °F to 158 °F	14 °F to 131 °F
Relative Humidity	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing
Power Requirements	DC - 12 to 32 VDC, ±10% regulated AC - 100 to 240 VAC, 50 to 60 Hz, 24 VA	24 VDC input; range: 10.8 to 35.2 VDC regulated	10.8 to 35.2 VDC ± 10% regulated	12 to 24 VDC ±10%, regulated or 100 to 240 VAC ±10%, reg. recommended, 50/60 Hz
Standards and Approvals	CE, FCC, UL, CUL, RoHS compliant, China RoHS, Manufactured under ISO 9001 and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety	CE, FCC, UL, CUL, RoHS compliant, China RoHS, NEMA 4X/ IP65 (front face only on panel mount); field mount is 100% NEMA 4X/IP65	CE, FCC, UL, CUL, RoHS compliant, China RoHS, NEMA 4X/IP65 (front face only)	CE, FCC, UL, CUL, RoHS compliant, China RoHS, NEMA 4X/IP65

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GF Signet Instrument Specifications



8860



8630



8150-3



8150-3P



5090

8860	8630	8150-3	8150-3P	5090
Dual-channel Conductivity/Resistivity Controller	Chlorine Transmitter	Battery Powered Flow Totalizer	Battery Powered Flow Totalizer	Sensor Powered Flow Monitor
No	No	No	No	No
N/A	N/A	1 Permanent 2 Resettable	1 Permanent 2 Resettable	None
2	2	1	1	1
Panel	Panel	Panel, Wall, Pipe, Tank, Integral	Panel, Wall, Pipe, Tank, Integral	Panel
LCD	LCD	LCD	LCD	Analog dial
(3) 4 to 20 mA, Passive, isolated	Current Loop (2) 4 to 20 mA	None	None	None
4	2	None	None	None
% Rejection, Difference, Ratio	Free Cl: 0 to 20 ppm pH: 0 to 14 pH	None	None	None
English	English	English	English	English
-10 °C to 55 °C	-10 °C to 70 °C	-10 °C to 65 °C	-10 °C to 65 °C	-10 °C to 65 °C
14 °F to 131 °F	14 °F to 158 °F	14 °F to 149 °F	14 °F to 149 °F	14 °F to 149 °F
0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing
100 to 240 VAC 12 to 24 VDC, ±10%, regulated	12 to 24 VDC ±10%, regulated	(2) 3.6 V Lithium Batteries	(2) 3.6 V Lithium Batteries	None
CE, FCC, UL, CUL, RoHS compliant, China RoHS, NEMA 4X/ IP65 (front face only on panel mount); field mount is 100% NEMA 4X/IP65	CE, FCC, UL, CUL, RoHS compliant, China RoHS, NEMA 4X/IP65 (front face only), Manufactured under ISO 9001 and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety	CE, FCC, UL, CUL, RoHS compliant, China RoHS, NEMA 4X/ IP65 (front face only on panel mount); field mount is 100% NEMA 4X/IP65	CE, FCC, UL, CUL, RoHS compliant, China RoHS, NEMA 4X/ IP65 (front face only on panel mount); field mount is 100% NEMA 4X/IP65	UL, CUL, China RoHS, NEMA 4X/IP65 (front face only)

GF Signet 9950 Dual Channel Transmitter



Member of the SmartPro® Family of Instruments

9950 Dual Channel Transmitter

Description	Mfg Part #	Price $
9950 Transmitter DC Power	9950-1	978.00
9950 Transmitter AC or DC Power	9950-2	998.00

The 9950 Transmitter is a two channel controller that supports two sensors of same or different types in one instrument. The sensor types supported by the 9950 are Signet Flow, pH/ORP, Conductivity/Resistivity, Salinity, Temperature, Pressure, Level, Dissolved Oxygen, and devices that transmit a 4 to 20 mA signal with the use of the 8058 iGo® Signal Converter.

The 9950 includes advanced features such as derived functions, advanced multiple relay modes, and timer based relay functions. Derived functions allows for the control of a relay or current loop with the sum, delta (difference), or ratio of two measurements, for example delta pressure and delta temperature. Multiple relay modes allow up to three signals to be used for the control of a single relay. This can be any combination of analog and binary inputs. The timer relay modes allow a relay to be activated on a repeating basis from every minute to once every 30 days. Weekday timer mode allows a relay to be energized on a specific day or days of the week at a specific time.

The 3-9950.393-3 Relay Module includes the ability to interface up to four binary inputs. The binary inputs are compatible with either open collector or mechanical contacts. The binary inputs can supply power to the four inputs or accepts powered outputs from external devices. These inputs can be used with level switches, flow switches, pressure switches or other devices. The inputs can be used to directly control the relays of the 9950 or can be used in combination with the measurement readings for advanced control of your process.



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GF Signet 9950 Dual Channel Transmitter



Features:

- Out of the box “Easy Setup” prompts user for general settings that allows for faster system commissioning.
- True independent two channel Multi-Parameter input selection allows mix and match of frequency, (S3L), or 4 to 20 mA to (S3L), providing a multitude of measurement capabilities.
- Custom independent channel labeling for easy process identification.
- Sensor recognition aids in parameter identification for simple channel setup.
- Adjustable backlighting allows for clear viewing, even in the darkest areas.
- Optional relay module with 4 dry contact relays (SPDT) for a wide variety of functions including Low, High, Timer, and Proportional Pulse.
- Optional relay module with 2 dry contact (SPDT Relays) and 4 binary input (switches) means added parameter feedback in the form of flow, level, pressure etc., giving up to a total of six process inputs.
- Advanced Boolean logic allows for up to three process inputs per relay meaning more control options.
- The integrated USB port allows field upgrades so there is no need to pull the unit from service.
- The Derived Function feature allows for two like channel measurement comparisons such as Sum, Delta (difference), and Ratio to be displayed and outputted via relay or loop (4 to 20 mA).

Applications:

- Wastewater Treatment
- Reverse Osmosis
- Deionization
- Chemical Manufacturing/Addition
- Metal and Plastic Finishing
- Fume Scrubbers
- Cooling Towers
- Media Filtration
- Chemical Dosing/Injection
- Aquatic Life Support
- Pools and Fountains
- Rinse Tanks
- Chemical Neutralization

Signet Compatible Products:

- 515 Paddlewheel Rotor-X Flow Sensor
- 2536 Paddlewheel Rotor-X Flow Sensor
- 525 Metalex™ Flow Sensor
- 2000 Micro Flow Sensor
- 2100 Turbine Flow Sensor
- 2507 Micro Flow Sensor
- 2540 High Performance Flow Sensor
- 2551 Electromagnetic Flow Sensor
- 2552 Metal Magmeter Flow Sensor
- 2537 Paddlewheel Flowmeter
- 2610 Dissolved Oxygen Sensor
- 2724-2726 pH/ORP Electrodes
- 2734-2736 pH/ORP Electrodes
- 2764-2767 Differential DryLoc® pH/ORP Electrodes
- 2774-2777 Threaded DryLoc® pH/ORP Electrodes
- 2750 DryLoc® pH/ORP Sensor Electronics
- 2850 Conductivity/Resistivity Sensor
- 2250 Hydrostatic Level Sensor
- 2350 Temperature Sensor
- 2450 Pressure Sensor
- i-Go 8058 Signal Converter
- 2819-2823 Conductivity Electrodes
- 2839-2842 PVDF Conductivity Electrodes
- ULTRAFLOW U1000 Ultrasonic Flow Sensor
- ULTRAFLOW U3000 / U4000 Ultrasonic Flow Sensor
- 2260 Ultrasonic Level Transmitter
- 2270 Ultrasonic Level Sensor
- 2756-2757 Wet-Tap Electrodes

GF Signet 9950 Relay Modules

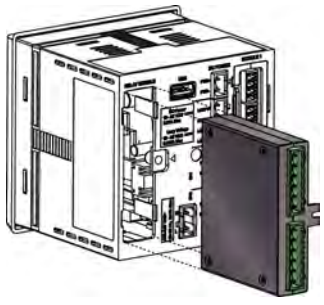


Ability to interface up to four binary inputs. The binary inputs are compatible with either open collector or mechanical contacts. The binary inputs can supply power to the four inputs or accepts powered outputs from external devices. These inputs can be used with level switches, flow switches, pressure switches or other devices.

The inputs can be used to directly control the relays of the 9950 or can be used in combination with the measurement readings for advanced control of your process.

Advantages:

- Interface up to four binary inputs
- Inputs can be used to directly control the relays of the 9950
- Inputs can be used with level, flow and pressure switches and other devices.



9950 Relay Modules

Description	Mfg Part #	Price $
Relay Module with 4 Mechanical Relays	3-9950.393-1	246.00
Relay Module with 2 Mechanical Relays and 2 Solid State Relays	3-9950.393-2	246.00
Relay Module with 2 Mechanical Relays and 4 Binary Inputs	3-9950.393-3	246.00

GF Signet 9900 Transmitter



Panel Mount



Field Mount

Member of the ProcessPro® Family of Instruments

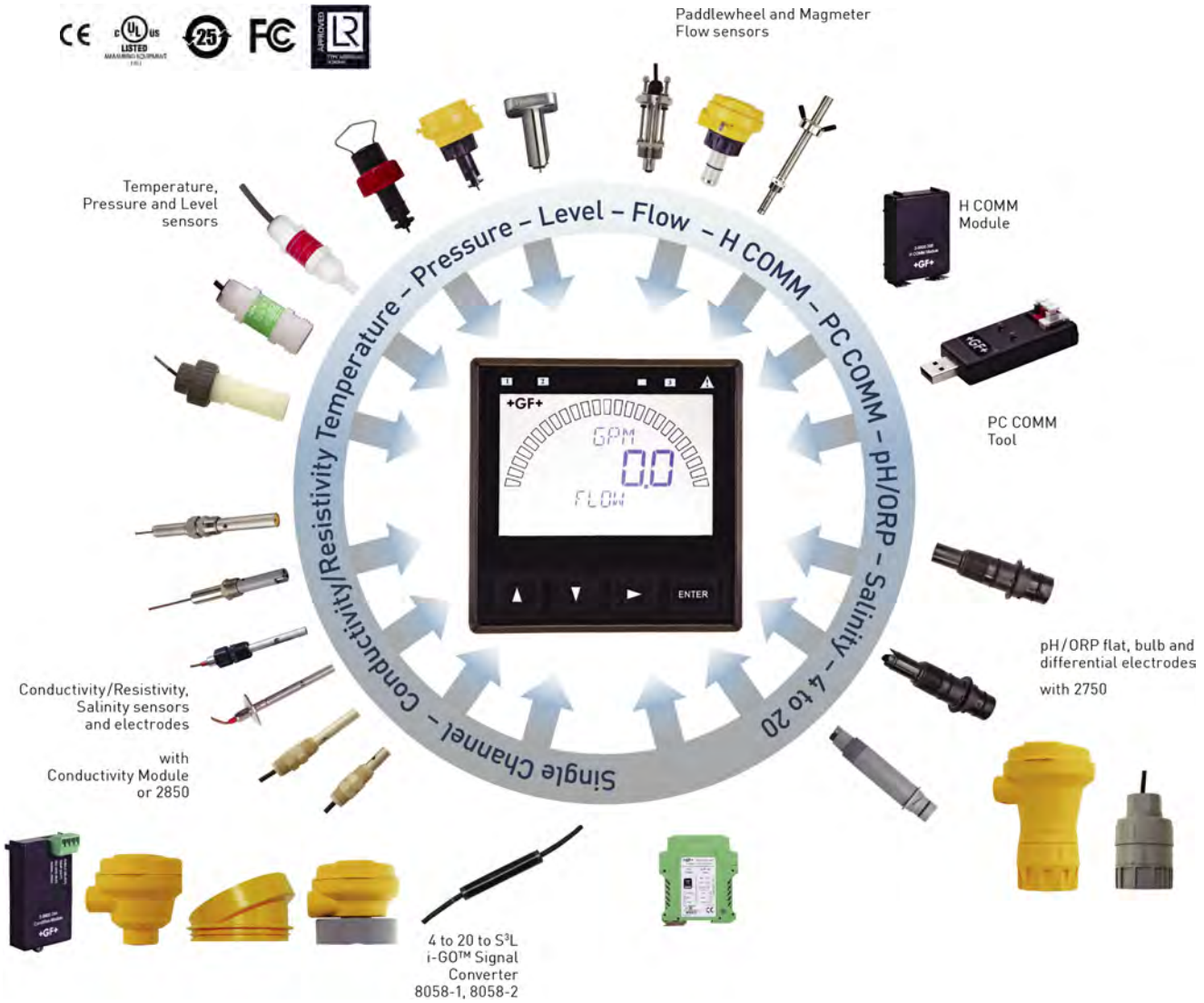
9900 Transmitter

Description	Mfg Part #	Price $
9900 Panel Mount Transmitter	3-9900-1P	637.00
9900 Field Mount Transmitter	3-9900-1	637.00

The Signet 9900 Transmitter provides a single channel interface for many different parameters including Flow, pH/ORP, Conductivity/Resistivity, Salinity, Pressure, Temperature, Level and other sensors that output a 4 to 20 mA signal. The 9900 Transmitter (Generation II) has the added capability of supporting the Batch Module for batching control. The extra large (3.90" x 3.90") auto sensing backlit display features "at-a-glance" visibility that can be viewed at 4-5 times the distance over traditional transmitters. The highly illuminated display and large characters reduce the risk of misreading or misinterpreting the displayed values. The display shows separate lines for units, main and secondary measurements as well as a "dial-type" digital bar graph.

The 9900 is offered in both panel or field mount versions. Both configurations can run on 12 to 32 VDC power (24 VDC nominal). The 9900 can also be loop powered with compatible sensors.

Designed for complete flexibility, plug-in modules allow the unit to easily adapt to meet changing customer needs. Optional modules include Relay, Direct Conductivity/Resistivity, H COMM, Batch and a PC COMM configuration tool. The unit can be used with default values for quick and easy programming or can be customized with labeling, adjustable minimum and maximum dial settings, and unit and decimal measurement choices.



SIGNET Instruments

GF Signet 9900 Transmitter

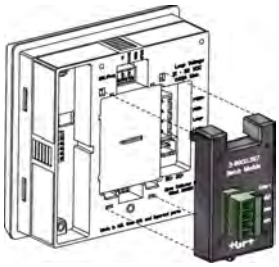


Features:
- Multi-Parameter input selection
- Large auto-sensing backlit display with “at a glance” visibility
- “Dial-type” digital bar graph
- Intuitive and “user-friendly” interface consistent with legacy Signet ProPoint® and ProcessPro® devices
- Optional field upgradable relays
- Selectable error mode for current outputs, 3.6 mA or 22 mA
- 4 to 20 mA input (with optional 8058 Signal Converter)
- Warning LED indicator
- Custom 13-character label capabilities for the channel type
- Factory reset capability
- Optional PC COMM configuration tool
- Optional H COMM module for two-way communication
- Optional Batch Module for Batch Control

Applications:
- Wastewater Treatment
- Reverse Osmosis
- Deionization
  - Ultra Pure Water
  - Two Bed System
  - Mixed Bed System
- Chemical Manufacturing/Addition
- Metal and Plastic Finishing
- Fume Scrubber
- Cooling Towers
- Media Filtration

GF Signet 9900 Transmitter Plug In Modules

Plug in Modules
Optional modules are available to customize your 9900: All modules come enclosed in a plastic cover. Modules are field installable and replaceable any time.



3-9900.397

Relay Module (Panel Installations only)
This module adds two programmable dry-contact relays to the standard Open Collector output in the base unit. Dry-contact relays are electromechanical switches with a moving contact armature. They are suitable for many general purpose applications, AC or DC, including loads up to 250 V. Install RC Filter kits (3-8050.396) on relays used to switch motor or inductive loads.

Direct Conductivity/Resistivity Module
The Direct Conductivity/Resistivity Module interfaces Signet 2819-2823 and 2839-2842 Conductivity electrodes directly to the 9900. The module also provides filtering and conditioning. The 2850 Sensor Electronics can be used in place of the Direct Conductivity/Resistivity Module wired through the 9900 Digital (S3L) input.

H COMM Module (HART®)
The H COMM Module enables communication between the 9900 and a HART®-enabled device. The HART (Highway Addressable Remote Transducer) Protocol superimposes digital signals on top of the 4 to 20 mA analog signal.

Batch Module
The Batch Module adds batch capability to the 9900 Transmitter (Generation II and newer). It is compatible with all Signet flow sensors. Up to 10 batch sizes can be stored in one 9900 with customized names and K-Factors available for each batch.

4 to 20 mA Output Module
The 4 to 20 mA Output Module adds a second 4 to 20 mA Output to the 9900 Transmitter (Generation III and later). Each of the outputs can be used to output the primary and/or secondary measurement. Outputs have individual settings available.

9900 Transmitter Plug In Modules

Description	Mfg Part #	Price $
Relay Module - 2 DCR	3-9900.393	125.00
Direct Conductivity/Resistivity Module	3-9900.394	254.00
H COMM Module	3-9900.395	330.00
Batch Module	3-9900.397	523.00
4 to 20 mA Output Module	3-9900.398-1	157.00

GF Signet 9900 Field Mount Transmitter Adapter Kit



9900 Field Mount Transmitter
Field mounting requires a separate mounting kit. The 3-8050 Universal Mount Kit, the 3-8051 or 8052 Integral Mount Kits, and the Angle Adjustment Adapter Kit enable the transmitter to be installed virtually anywhere.

Angle Adjustment Adapter Kit
The angle adjustment adapter kit quickly and easily converts your 9900 Field Mount Transmitter to a 25° angle. This accessory enhances the versatility of the 9900 Field Mount Transmitter. Use one or many of these angles adapters to provide larger angles. Can be used to angle the display upward for installations near the ground or face the display down for installations that are above eye level.



3-9900.396



3-8050



3-8051



3-8052

9900 Transmitter Field Mount Adapter Kits

Description	Mfg Part #	Price $
Angle Adjustment Adapter Kit	3-9900.396	31.00
Universal Mount Kit	3-8050	69.00
Integral Adapter	3-8051	69.00
3/4 in. Integral Mount Kit	3-8052	80.00

GF Signet 9900-1BC Batch Controller System



Member of the ProcessPro® Family of Instruments

The Signet 9900-1BC Batch Controller system provides control capability and process fine-tuning in a familiar package. The programming interface uses a four button keypad and an intuitive menu for adjusting a batching system to the best performance possible. Choose between simple or advanced modes. In simple mode, relay outputs can be used for batching, external counter, missing signal alarm and 4 to 20 mA output can be used to indicate batch status. In advanced mode relays can also be used for end of batch pulse, two-stage shutdown, overrun alarm, high flow detection, total volume or source volume alarm.

Designed for a variety of batch applications, the 9900-1BC can save up to 10 batch sizes for batching or blending a variety of liquid volumes. Customize batch names for easy distinction between batches. One K-Factor can be used for all batches, or use a different K-Factor for each batch for when different liquids are batched. User can choose to be prompted prior to starting a batch with a Yes/No or with a password to prevent inadvertently starting a batch.

The 9900-1BC operates on 10.8 to 35.2 VDC, regulated. Connect a remote start or stop switch for remote batch control. Use the end-of-batch pulse to trigger the next step in the process.

Features:

- Store up to 10 batch sizes for batching or blending a variety of liquid volumes
- Customize 10 batch names for easy distinction between batches
- Modular Design - Can be purchased as a complete system or add a Batch Module and Relay Module to an existing 9900 Transmitter (Generation II)
- Remote control wiring with start, stop & resume terminals for remote batch control
- 3 programmable relays, one open collector, two dry-contact relays
- Two-stage control to prevent overfilling or to minimize water hammer
- Confirmation START/RESUME – Can prompt user prior to starting each batch with a Yes/No or password to prevent inadvertently starting a batch
- Enter 10 different K-Factors - one per batch for when different liquids are batched

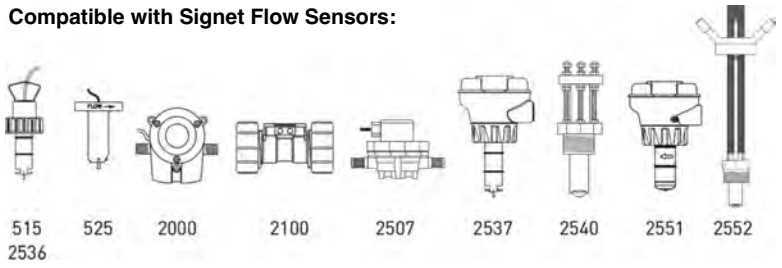
Applications:

- Batch Process
- Filter Backwash Initiation
- Chemical Addition
- Canning and Bottling
- Tank Filling
- Bulk Storage Transfer
- Chemical Processing
- Food and Beverage
- Life Sciences
- Water Treatment

9900-1BC Batch Controller System

Description	Mfg Part #	Price $
Batch Controller System	3-9900-1BC	1260.00

Compatible with Signet Flow Sensors:



GF Signet 9900 Transmitter Rear Enclosure Kit



Hinged Cover



Flat Cover

The Signet Rear Enclosure Kit allows the 9900 Transmitter to be mounted just about anywhere. The design features make it suitable for installations onto walls, pipes, struts or inside panels. There are two kits available, Rear Enclosure with Hinged cover or with Flat cover. Kits can be installed on any generation of the 3-9900-1P Panel Mount Transmitter. They can also be used with the 3-9900-1BC Batch Controller System.

The hinged cover version is suitable for wall or pipe mount installations. The kit is equipped with necessary wall mounting hardware. Plastic tie wraps or metal hose clamps (customer supplied) can be used for pipe mount installations. Two slots are available up to 12.7 mm (0.5 in.) wide. The hinged cover design allows for easy access to the back of the 9900 Transmitter for wiring and module installation. The user can install the hinged door to swing down, up or side-to-side.

The flat cover kit is designed to fit inside a panel for waterproof protection.

Both options have sufficient space for all 9900 Transmitter modules. Enclosures have hole markers on all sides, so users can drill holes and position the wires on the top, bottom or sides.

9900 Transmitter Rear Enclosure Kit

Description	Mfg Part #	Price $
Rear Enclosure Hinged Cover	3-9900.399-1	89.00
Rear Enclosure Flat Cover	3-9900.399-2	81.00

Features:

- NEMA TYPE 4X/IP66 rated for indoor or outdoor installations
- Spacious for any 9900 Transmitter accessory module
- Use inside a panel for waterproof protection
- Drill holes on any side for flexible wiring orientation

GF Signet 8900 Multi-Parameter Controller



Member of the ProcessPro® Family of Instruments

The Signet 8900 Multi-Parameter Controller takes the concept of modularity to the extreme. Each 8900 is field commissioned with the users specified combination of inputs, outputs, and relays using simple-to-install modular boards into the base unit. Configure the system by selecting either two, four, or six input channels which accepts any of the Signet sensors listed below, and/or other manufacturer's sensors via a 4 to 20 mA signal converter (Signet Model 8058). To complete your unit, choose a power module with universal AC line voltage or 12 to 24 VDC ±10%, regulated.

If more features are needed, analog output and relay modules are available and easily installed. Plus, the 8900 will support four additional relays via an external relay module. There are other notable features that the 8900 offers. For instance, digital input to the 8900 enables longer cable runs and simplified wiring with minimal noise interference. Advanced relay logic allows users to select up to 3 measurement sources to trigger 1 relay. Derived measurements include difference, sum, ratio, percent recovery, percent rejection, percent passage and BTU. The menu system can be programmed to display in multi-languages including English, German, French, Spanish, Italian, and Portuguese.

Features:

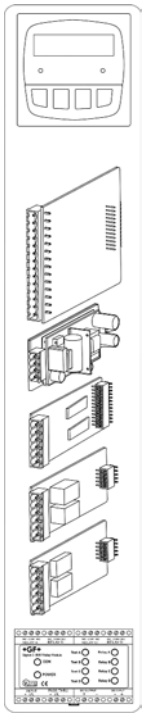
- Measures Flow, pH, ORP, Conductivity, Pressure, Level and Temperature
- Multi-language display
- 1/4 DIN enclosure
- Up to 4 analog outputs
- Up to 8 relays
- 12 to 24 VDC or 100 to 240 VAC ±10%, regulated power
- Digital communication allows for extended cable lengths and easy wiring
- Accepts 3rd party 4 to 20 mA output devices when used with 8058 signal converter
- Available with 2 to 6 channels
- Simultaneous BTU Calculations with Heating & Cooling Totalizers per calculation

Applications:

- RO/DI System Control
- Pure Water Production
- Chemical Processing
- Wastewater Treatment
- Metal & Plastics Finishing
- Proportional Chemical Addition
- Cooling Tower & Boiler Protection
- Aquatic Animal Life Support Systems
- Media Filtration
- Demineralizers
- Fume Scrubbers
- Rinse Tank

Signet Compatible Products:

- 515 Paddlewheel Rotor-X Flow Sensor
- 525 Metalex™ Flow Sensor
- 2000 Micro Flow Rotor Sensor
- 2100 Turbine Flow Sensor
- 2250 Hydrostatic Level Sensor
- 2350 Temperature Sensor
- 2450 Pressure Sensor
- 2507 Mini Flow Rotor Sensor
- 2536 Paddlewheel Rotor-X Flow Sensor
- 2537 Paddlewheel Flowmeter
- 2540 Stainless Steel High Performance Paddlewheel Flow Sensor
- 2551 Magmeter Flow Sensor
- 2552 Metal Magmeter Flow Sensor
- 2750 and 2760 DryLoc® pH/ORP Sensors
- 2850 Conductivity/Resistivity Sensor
- 4150 Turbidimeter
- 2610 Dissolved Oxygen Sensor
- 2724-2726 pH/ORP Electrodes
- i-Go™ 8058 Signal Converter
- 8059 External Relay Modules

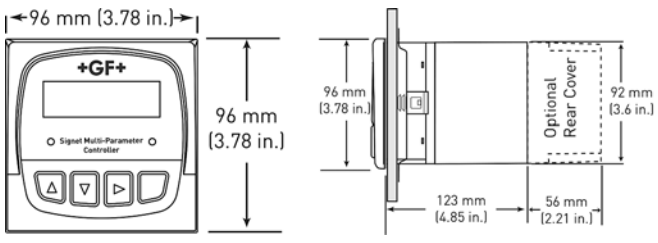


Description	Mfg Part #	ALSCO #	Price $
Base Units, Required			
Base unit with back-lit LCD	3-8900	9278	535.00
I/O (input/output) Modules, Required; Choose One			
Dual (2) Input (no outputs)	3-8900.401-1	3-8900.401-1	220.00
Dual (2) Input with Two Passive* Loop Outputs	3-8900.401-2	9280	367.00
Dual (2) Input with Two Active Loop Outputs	3-8900.401-3	9281	462.00
Dual (2) Input with Two Voltage Outputs	3-8900.401-4	3-8900.401-4	668.00
Quad (4) Input (no outputs)	3-8900.401-5	9282	528.00
Quad (4) Input with Two Passive* Loop Outputs	3-8900.401-6	9283	696.00
Quad (4) Input with Two Active Loop Outputs	3-8900.401-7	9284	801.00
Quad (4) Input with Two Voltage Outputs	3-8900.401-8	3-8900.401-8	832.00
Six Inputs (no outputs)	3-8900.401-9	3-8900.401-9	691.00
Six Inputs with Two Passive* Loop Outputs	3-8900.401-10	3-8900.401-10	859.00
Six Inputs with Two Active Loop Outputs	3-8900.401-11	3-8900.401-11	963.00
Six Inputs with Two Voltage Outputs	3-8900.401-12	3-8900.401-12	1039.00
Power Modules, Required; Choose One			
110/220 VAC Power Module, ±10%, regulated	3-8900.402-1	9285	258.00
12 to 24 VDC Power Module, ±10%, regulated	3-8900.402-2	9286	169.00
Optional Output Modules - Choose One			
Two Passive* Current Loop Outputs	3-8900.405-1	9289	302.00
Two Active Current Loop Outputs	3-8900.405-2	9290	327.00
Optional Relay Modules - Choose One or Two			
Two Dry Contact Relays	3-8900.403-1	9287	153.00
Two Solid State Relays	3-8900.403-2	9288	160.00
Optional External Relays - Choose One**			
Four dry-contact relays; requires 12 to 24 VDC ±10%, regulated	3-8059-4	3-8059-4	557.00
Four dry-contact relays; requires 100 to 240 VAC ±10%, regulated; supplies power to the 12 to 24 VDC ±10%, regulated power host device	3-8059-4AC	3-8059-4AC	678.00
Accessories and Replacement Parts			
1/4 DIN retrofit adapter	3-8050.392	3-8050.392	117.00
Splashproof rear cover	3-8050.395	9245	67.00
1/4 DIN wall mount bracket, 6½ in. (use if no rear cover is installed)	3-0000.596-1	9294	85.00
1/4 DIN wall mount bracket, 9 in. (use if rear cover is installed)	3-0000.596-2	9295	132.00
Panel adapter, 5 x 5 in. to 1/4 DIN	3-5000.399	9302	46.00
Surface mount bracket	3-5000.598	9303	43.00
Angle adjustment adapter kit	3-9900.396	3-9900.396	29.00
Power Supplies			
24 VDC Power Supply, 10W, 0.42 A	7310-1024	7310-1024	114.00
24 VDC Power Supply, 24W, 1.0 A	7310-2024	7310-2024	153.00
24 VDC Power Supply, 40W, 1.7 A	7310-4024	7310-4024	179.00
24 VDC Power Supply, 60W, 2.5 A	7310-6024	7310-6024	269.00
24 VDC Power Supply, 96W, 4.0 A	7310-7024	7310-7024	346.00
Miscellaneous			
RC filter kit (for relay use), 2 per kit	3-8050.396	9246	88.00

* Passive outputs require an external power source
** See individual product page for the 8059 External Relay Modules.

GF Signet 8900 Multi-Parameter Controller - Specifications

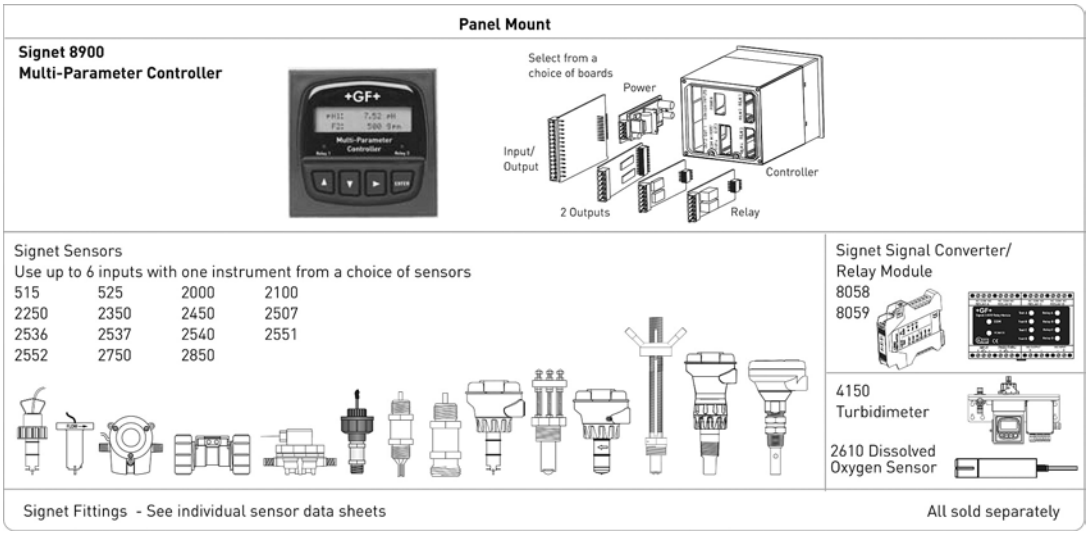
General		
Compatibility	Modular (completely field-)	
No. of Input Channels	2, 4, or 6	
Compatible Sensors	See System Overview	
Input Signal Types	Digital (S³L) Serial ASCII, TTL level 9600 bps	
	Frequency 0.5% of reading	
Measurement Types	Flow, pH, ORP, Conductivity/Resistivity, Pressure, Temperature, Level, or 3rd party devices with a 4 to 20 mA output	
Derived Measurements	Sum, difference, ratio, % recovery, % reject, % passage, power (BTU)	
No. of Relays Supported	Available: 2, 4, 6 or 8 (8 dry-contact or 4 solid state and 4 dry- contact)	
No. of Analog Outputs	Available in pairs: 2 or 4 (active and/or passive 4 to 20 mA); and/or 2 (0 to 5/10 VDC)	
Enclosure and Display		
Enclosure Rating	NEMA 4X/IP65 (front face only)	
Case Material	PBT	
Panel Gasket	Silicone Sponge	
Window	Self-healing polyurethane-coated polycarbonate	
Keypad	4-buttons, highly tactile and audible injection-molded silicone rubber seal	
Display	Alphanumeric 2 x 16 back-lit LCD	
Update Rate	1 second	
Accuracy	Sensor dependent	
LCD Contrast	4 settings	
Languages Available	English, French, Spanish, German, Italian and Portuguese	
Display Ranges (see sensor specifications for actual measurement limits)		
pH	-2.00 to 15.00 pH	
pH Temperature	-40 °C to 150 °C -40 °F to 302 °F	
ORP	-9999 to +9999 mV	
Flow Rate	0.0000 to 999999 units per second, minute, hour or day	
Totalizer	0.00 to 99999999 units	
Conductivity	0.0000 to 999999 µS, mS, PPM & PPB (TDS), kΩ, MΩ	
Conductivity Temperature	-99.9 °C to 250 °C -148 °F to 482 °F	
Temperature	-99.9 °C to 999.9 °C -148 °F to 999.9 °F	
Pressure	-99.99 to 9999 psi, kPa, bar	
Level	-99999 to 99999 m, cm, ft, in., %	
Volume	-99999 to 999999 m3, ft3, in3, cm3, gal, L, kg, lb, %	
Other (4 to 20 mA)	-99999 to 999999 user selectable units	
Environmental		
Ambient Operating Temperature		
Backlit LCD	-10 °C to 55 °C	14 °F to 131 °F
Storage Temperature	-15 °C to 80 °C	5 °F to 176 °F
Relative Humidity	0 to 95%, non-condensing	
Maximum Altitude	2,000 m (6,560 ft)	
	4,000 m (13,123 ft); use only DC power supply and, if applicable, solid state relays to maintain UL safety standard up to this altitude	
Electrical		
Power Requirements (AC or DC via Power Modules)		
Universal AC	100 to 240 VAC ±10%, regulated 50-60 Hz, 24 VA max.	
DC	12 to 24 VDC, ±10%, regulated recommended, 7 Watts max.	
Output Power to Sensors	5 VDC up to 40 mA total	
Terminal Type	Screw-clamp, removable via plug-in modules	

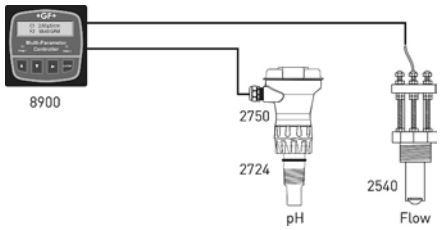


Analog Outputs (via I/O Modules and Output Modules) All analog outputs are freely assignable to any channel.			
4 to 20 mA Output	Endpoints are adjustable and reversible		
Minimum Default	4.0 mA; user adjustable from 3.8 to 5.0 mA		
Maximum Default	20.00 mA; user adjustable from 19.0 to 21.0 mA		
Test Mode	Produces an adjustable 4 to 20 mA signal for functional verification of each output circuit		
Isolation	Up to 48 VAC/DC		
Error Condition	22.1 mA (default state when output source not configured)		
Update Rate	100 ms		
Accuracy	±32 µA over entire operating temperature range		
Passive 4 to 20 mA			
Voltage	12 to 24 VDC, ±10%, regulated		
Max. Impedance	250 Ω @ 12 VDC	500 Ω @ 18 VDC	750 Ω @ 24 VDC
Active 4 to 20 mA			
Max. Impedance	750 Ω		
0 to 5/10 VDC Output	Endpoints are adjustable and reversible		
Output Range	0 to 5 VDC or 0 to 10 VDC, software selectable		
Minimum Default	0 VDC; user programmable from 0 to 0.5 VDC		
Maximum Default	5 VDC; user programmable from 4.5 to 5.5 VDC, or 9.5 to 10.5 VDC		
Output Load	10 kΩ minimum		
Test Mode	Produces an adjustable signal for functional verification of each output circuit		
Isolation	Up to 48 VAC/DC		
Error Condition	0 VDC (default state when output source not configured)		
Update Rate	100 mS		
Accuracy	±20 mV over entire operating temperature range		
Resolution	5 mV		
Power Supply Rejection	0.5 mV/V		
Relay Modules All relays are freely assignable to any channel.			
Internal Relay Modes of Operation	Off, Low, High, Window, Proportional Pulse, Pulse Width Modulation, USP, Volumetric, Pulse, Totalizer Volume, Advanced, % Rejection, % Recovery, % Passage		
External Relay Modes of Operation	External relay modes of operation Off, Low, High, Window, USP, Totalizer Volume, Advanced, % Rejection, % Recovery, % Passage		
Hysteresis	User adjustable		
Time Delay	0 to 6400 seconds		
Advanced Relay	Use "AND/OR" logic along with relay sources to trigger a relay. High/Low modes available for each of the 3 sources		
Solid State Relays	Non-mechanical switches		
Normally Open/Closed Operation	Software selectable		
Maximum Voltage Rating	30 VDC or 42 VAC p-p		
Current Rating	50 mA DC or 50 mA AC RMS		
On-state Impedance	30 Ω or less		
Off-state Leakage	400 nA or less, AC or DC		
Isolation	Up to 48 VAC/DC		
Transient Protection	Embedded, up to 48 V over-voltage		
Dry-contact Relays	Mechanical contacts		
Type	SPDT		
Form	C		
Maximum Pulse Rate	600 pulses/min. (volumetric pulse & PWM modes)		
	400 pulses/min. (prop. pulse mode)		
Maximum Voltage Rating	30 VDC or 250 VAC		
Current Rating	5 A		
Shipping Weight			
Base Unit	1.00 kg	2.25 lb	
Power Module	0.12 kg	0.25 lb	
I/O Module	0.12 kg	0.25 lb	
Output Module	0.12 kg	0.25 lb	
Relay Module	0.12 kg	0.25 lb	
Standards and Approvals			
CE, UL, FCC			
RoHS compliant			
China RoHS			
Manufactured under ISO 9001 for Quality, ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety.			

GF Signet 8900 Multi-Parameter Controller - System Overview

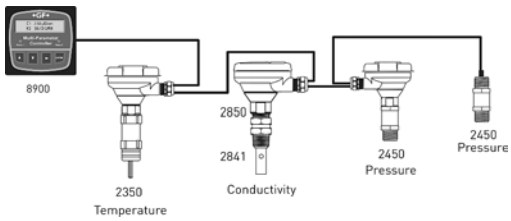
There are hundreds of system types that can be set up with the 8900. The examples below illustrate various sensors in different installation schemes. Wiring topology for point-to-point, daisy-chain, multi-drop, or a combination of these are listed in each example. Digital sensor outputs allow for long cable runs with high noise immunity. See Wiring section for allowable cable lengths.



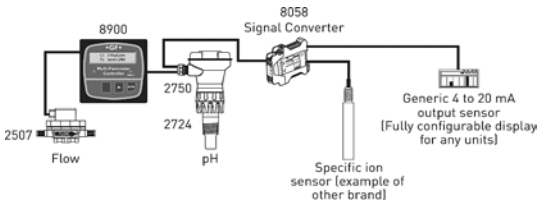


Example 1:
- 8900 input module: Two inputs
- Sensors connected: Signet 2750 with 2724 pH sensors and 2540 flow (frequency)
- Wiring configuration: Point-to-point

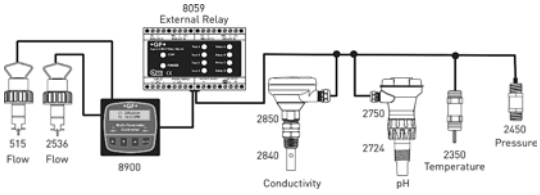
Notes:
- External relays can be used with any input module and does not consume a sensor input channel (Model 8059)
- Model 8058 Signal Converter can be used with any input module



Example 2:
- 8900 input module: Four inputs
- Sensors connected: Signet 2350 temperature sensor, 2850 with 2841 conductivity, and two 2450 pressure sensors
- Wiring configuration: Daisy-chain



Example 3:
- 8900 input module: Four inputs
- Sensors connected: Signet 2507 flow (frequency) and 2750 with 2724 pH sensors; Other manufacturers' dissolved oxygen and level sensors with 4 to 20 mA output
- External Devices: Signet 8058 signal converter - 4 to 20 mA to digital (S³L)
- Wiring configuration: Combination of point-to-point and daisy-chain



Example 4:
- 8900 input module: Six inputs
- Sensors connected: Signet 2350 temperature sensor, 2850 with 2840 conductivity, 2450 pressure, 2750 with 2724 pH, and 515 and 2536 flow (frequency) sensors
- External Devices: Signet 8059 external relay module
- Wiring configuration: Combination of point-to-point and Multi-drop

Wiring Options:
- **Point-to-point** wiring is direct wiring of individual devices into the controller. This wiring topology is applicable for all inputs.
- **Daisy-chain** wiring allows sequential connection from one device to the next by using junction boxes. This wiring topology is applicable for digital (S³L) inputs only.
- **Multi-drop** wiring allows drops from a single bus cable. Junction boxes can be used for the 3-way junctions that are formed with this wiring scheme. This wiring topology is applicable for digital (S³L) inputs only.

GF Signet 8900 Multi-Parameter Controller
Installation of Modules with the Base Unit

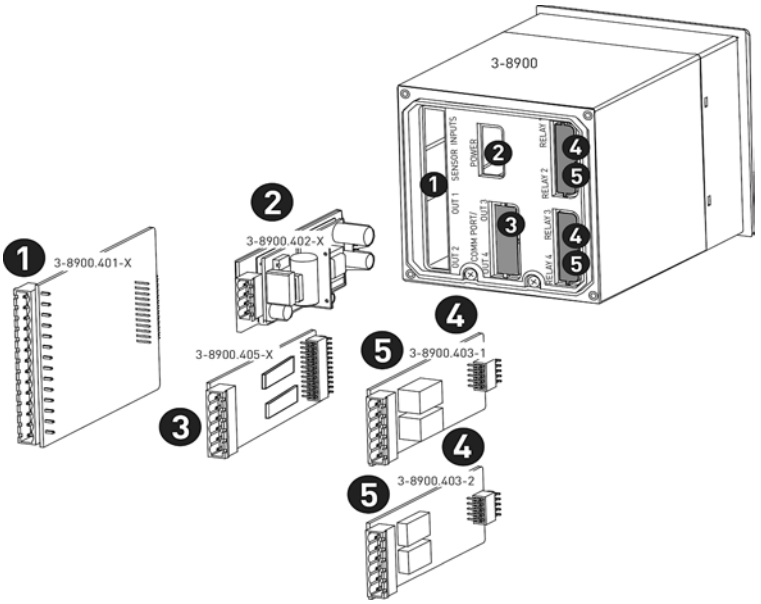
One base unit is required to build a functional 8900. It is offered with a backlit LCD display. Programming the unit is done simply via the push-button keypad. The unit can be tailored to display in English, German, French, Spanish, Italian, and Portuguese. The two line display allows for easy programming, navigation, and viewing of each channel.

1 - I/O Module
One I/O module is required to build a functional 8900. I/O modules are offered for 2, 4, or 6 sensor inputs with or without two mA or voltage outputs. Users can select two additional outputs via the output module.

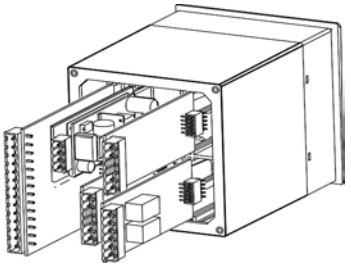
2 - Power Module
One power module is required to build a functional 8900. The power module is offered for universal 100/240 VAC or 12 to 24 VDC (This module can be powered by optional external relays (see ordering information for more details).

3 - Output Module
Output modules are optional when building an 8900. This module can be used in addition to other outputs that are available in the I/O modules. Active current are powered by the 8900. Passive outputs require an external 12 to 24 VDC power supply. All outputs are assignable to any input channel.

4 & 5 - Relay Modules
Relay modules are optional when building an 8900. Relay modes of operation include off, low, high, window, USP, totalizer volume, advanced, proportional pulse, pulse width modulation, volumetric pulse, % reject, % recovery and % passage. The advanced relay option for “AND/OR” logic is used for up to 3 conditions. For instance, a relay will go to high/low if “a” is true and “b” or “c” is false. One or two relay modules can be installed into the 8900. One additional external relay module can also be used at the same time (See optional external relay ordering information.) All relays are assignable to any input channel.



Installation of Modules:
Modules simply plug in by sliding into the base unit on rails. They are held securely in place by the rear cover. Changes and upgrades can be made in the field at any time.



Ordering Notes:
1) Building a functional unit requires a base unit, I/O module, and power module.
2) Output options are available on I/O modules and additional output modules can be used. The 8900 can support up to four outputs.
3) The 8900 can support up to eight relays. Up to two internal relay modules can be used simultaneously; additional external relays can also be used.
4) A maximum total of two frequency sensors can be used with any input card.
5) A total of six digit inputs or four digital inputs with two frequency inputs can be used.
6) The 8900 boards are field replaceable.
7) The 8900 can be reconfigured with new sensor types by simple reprogramming.

All prices subject to change without notice.

GF Signet 8860 Two-Channel Conductivity/Resistivity Controller



Member of the ProcessPro® Family of Instruments

The Signet 8860 Two-Channel Conductivity/Resistivity Controller is packed with a set of features and capabilities ideal for the real needs of water treatment applications. It accommodates two separate and independent input sources and can be powered with AC/DC voltage. The 8860 programs via a simple and intuitive menu system. The unit can also be programmed to measure a raw conductivity value by turning off the temperature compensation mode.

To control the process, the 8860 is equipped with four dry contact relays and three 4 to 20 mA output loops. Calculated measurement include Difference, Ratio or % Rejection. Two of the relays may be converted into open collector outputs with the flip of a switch. Operating modes for the relays and open collector outputs are high, or low alarm, pulse, or special USP alarm mode. The 8860 is offered with a NEMA 4X/IP65 front panel with a self-healing window in a 1/4 DIN package for easy panel installation.

Features:
- Meets USP requirements for measuring raw conductivity, USP alarm mode
- Dual sensor input
- AC or DC powered
- Display and/or control: µS, mS, PPM or PPB (TDS), kΩ, MΩ, % rejection, difference, ratio, °C or °F
- Three fully scaleable 4 to 20 mA outputs
- Two open collector outputs
- Four programmable relays
- Time delay relay function
- Proportional pulse control capability
- Compatible with ALL Signet conductivity electrodes
- Programmable temperature compensation
- NEMA 4X/IP65

Applications:
- RO/DI System Control
- Demineralizer Regeneration and Rinse
- Scrubber, Cooling Tower & Boiler Protection
- Chemical Concentration
- Rinse Tank Water Quality
- Desalination
- Leak Detection
- Aquatic Animal Life Support Systems
- Aquaculture
- Environmental Studies

8860 Two-Channel Conductivity/Resistivity Controller

Description	Mfg Part #	ALSCO #	Price $
with three 4 to 20 mA outputs and 4 relays or 2 relays with 2 open collectors (switch selectable), 12 to 24 VDC Power	3-8860	9271	1483.00
with three 4 to 20 mA outputs and 4 relays or 2 relays with 2 open collectors (switch selectable), 100 to 240 VAC Power	3-8860-AC	9272	1570.00

GF Signet 8630 Chlorine Transmitter



Member of the ProcessPro® Family of Instruments

The Signet 3-8630-3P ProcessPro Chlorine Transmitter simultaneously displays free chlorine and pH levels on a bright LCD backlit display.

The 8630 transmitter has two 4 to 20 mA outputs that can be programed to transmit chlorine, pH or temperature information to a data collection device.

Two dry-contact mechanical relays can be used to deliver an alarm signal or activate a chlorine dosing system.

Programming is simple and easy with Signet's standard 4-button keypad. The menu option allows the use of an optional pH sensor to accurately calculate free chlorine level or select "Manual pH input" and enter the applications stable pH level to determine free chlorine levels.

Features:
- Displays free chlorine 0 to 20 ppm (mg/l)
- Two programmable 4 to 20 mA outputs
- Two mechanical relays
- Temperature and pH compensation
- Displays diagnostic information from sensor memory
- Simple setup and easy customization
- Backlit LCD display

Applications:
- Water Distribution
- Ground Water
- Surface Water
- HVAC Applications (cooling water)
- Gray Water Dechlorination
- Food and Beverage
- RO Membrane Protection
- Swimming Pools
- Aquariums
- Water Parks

8630 Chlorine Transmitter

Description	Mfg Part #	Price $
Panel Mount Chlorine and pH Transmitter	3-8630-3P	874.00

GF Signet 8150 Battery Powered Flow Totalizer



Panel Mount



Pipe, Wall, and Tank Mount



Integral Mount

Member of the ProcessPro® Family of Instruments

The Signet 8150 Battery Powered Flow Totalizer is compatible with the Signet 515 and 525 flow sensors, and will provide years of dependable operation. The large digital display indicates flow rate and totalized flow volume simultaneously. One of the three totalizers is resettable from the front panel or a remote location, while the second resettable totalizer can only be reset by entering a user-selectable security code. The third is a permanent non-resettable totalizer.

Our intuitive software design and four-button keypad provide for simple operation while setting screen displays and programming the system. Calibration can be easily performed by entering the AutoCal feature and entering a value to match an external reference. Screen displays can be modified to suit the user's needs; along with the flow rate, any of the three totalizers can be selected as the displayed totalizer. Users can quickly scroll through the totalizers simply by pressing any key on the keypad. A display averaging feature is included for applications where the flow in the pipe fluctuates. For applications where flow stops and starts due to production needs, a no-flow indicator will display the hours of non-flow.

Features:
- Three totalizers: 2 resettable and 1 permanent, user-selectable
- Long-lasting lithium batteries
- Mounting versatility
- No-flow indicator
- Large digital display with averaging
- Simple push-button operation
- User-selectable access code prevents unwanted changes
- Auto-calibration

Applications:
- Wastewater Flow Accumulation
- Water Treatment Systems
- Remote or Mobile Treatment/Distribution Systems
- Irrigation Systems
- Filtration Systems
- Commercial Pools & Spas
- Groundwater Remediation
- R.O. Concentrate
- Process Flow Monitoring
- UPW Distribution
- Demineralizer Regeneration
- Process Cooling Water

8150 Battery Powered Flow Totalizer

Description	Mfg Part #	Price $
Field mount for pipe, tank, and wall mounting	3-8150-1	714.00
Panel mount; includes mounting bracket and panel gasket	3-8150-1P	714.00
For 1/2 to 4 in. pipes, mounted on Model 515 Paddlewheel (Part No. 3-8510-P0), w/polypropylene body, black Polypropylene retaining nut, Black PVDF rotor, and Titanium pin	3-8150-P0	1113.00
For 1/2 to 4 in. pipes, mounted on Model 515 Paddlewheel (Part No. 3-8510-T0), with a natural PVDF body, natural PVDF retaining nut, rotor, and pin	3-8150-T0	1500.00
For 5 to 8 in. pipes, mounted on Model 515 Paddlewheel (Part No. 3-8510-P1), w/polypropylene body, Black PVDF rotor, and Titanium pin	3-8150-P1	1141.00

GF Signet 0486 Profibus Concentrator



The Signet 0486 Profibus Concentrator allows for simplified connection of Signet sensors to a PROFIBUS network. The 0486 supports six sensor interfaces and a 4 to 20 mA current loop proportional valve interface. The 0486 supports PROFIBUS DPV1 and is available with either DB9 or M12 network connectors.

The 0486 sensor interfaces are multifunctional. All six inputs are compatible with Signet digital (S3L) sensors, four inputs are compatible with frequency output flow sensors, and two inputs are compatible with 4 to 20 mA current loops. The 0486 PLC interface allows for complete control of the Signet sensors. The programmer is able to configure the sensor for the specific needs of their application, read measurements in engineering units, and gather diagnostic data to ensure accuracy and correctness of readings.

Applications:
- Automation Upgrades
- Filter and RO Skids
- Neutralization Systems
- Water and Wastewater Treatment
- Pool and Spa Control
- Aquatic Animal Life Support Systems and Aquaculture

Features:
- Interface six Signet sensor or relay modules and a proportional valve to a PROFIBUS network with a single service
- Four channels support (S^3L) or flow frequency devices
- Two channels support (S^3L) or 4 to 20 mA current loops
- One channel for dedicated 4 to 20 mA current loop input and output. Ideal for proportional valve control or other current loop uses
- Support for PROFIBUS DP V1 and DP V0
  - Supports 9.6K to 12M bits/second network speeds
  - System and sensor diagnostic support (DP V1)
  - Fail-safe for 8059 Relay Modules and proportional valve outputs on communication failure
- Simplified the programming of sensors, saving programming time and reducing errors
- Convenient DIN Rail or surface mountable enclosure

0486 Profibus Concentrator

Description	Mfg Part #	Price $
DB9 Profibus Concentrator	3-0486-D	2633.00

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011419

SIGNET Flow Sensors

GF Signet Flow Sensor Specifications

Simple to install with time-honored reliable performance, Signet Sensors are highly repeatable, rugged sensors that offer exceptional value with little or no maintenance.


2536


2551


2540


2507


2552


515


2537


525


2000


2100

	515	2536	2537	2551	525	2540	2000	2507	2100	2552
Sensor Style	Insertion Paddlewheel	Insertion Paddlewheel	Insertion Paddlewheel	Insertion Magmeter	Insertion Paddlewheel	Insertion Paddlewheel	In-line Rotor	In-line Rotor	In-line Turbine	Insertion Metal Magmeter
Operating Range m/s (ft/s)	0.3 to 6 (1 to 20)	0.1 to 6 (0.3 to 20)	0.1 to 6 (0.3 to 20)	0.05 to 10 (0.15 to 33)	0.5 to 6 (1.6 to 20)	0.1 to 6 (0.3 to 20)	0.11 to 12.11 (0.03 to 3.2)	0.4 to 12 (0.105 to 3.170)	0.38 to 38 (0.10 to 10)	0.05 to 10 m/s (0.15 to 33 ft/s)
Installation Mounting Styles	Signet fittings in plastic and metal, sizes 1/2 - 12 in.	Signet fittings in plastic and metal, sizes 1/2 - 12 in.	Signet fittings in plastic and metal, sizes 1/2 - 12 in.	Signet fittings in plastic and metal, sizes 1/2 - 12 in.	Metalex installation fittings for metal pipe	Customer supplied threaded saddle/ weld-on fittings	1/4 in. threads	1/4 in. threads	Socket, flare end, or hose barb fittings	Customer supplied threaded fittings
Pipe Size Range	DN15 to DN900 (1/2 to 36 in.)	DN15 to DN900 (1/2 to 36 in.)	DN50 to DN200 (1/2 to 8 in.)	DN15 to DN900 (1/2 to 36 in.)	DN15 to DN300 (1/2 to 12 in.)	DN40 to DN900 (1 1/2 to 36 in.)	1/4 in. tubing	1/4 in. tubing	DN8, DN10, DN15 (1/4, 3/8, 1/2 in.)	DN50 to DN2550 (2 to 102 in.)
Wetted Materials										
Sensor Body	PP or PVDF	PP or PVDF	PP or PVDF	PP or PVDF	316 SS	316 SS	PPS	PVDF	PVDF	316L SS
Rotor	PVDF or ETFE	PVDF or ETFE	PVDF or ETFE	N/A	17-4 SS Alloy	17-4 SS Alloy	PEEK®	PVDF	PVDF	N/A
Rotor Pin (choice of)	Titanium, Tantalum, SS, Ceramic, Hastelloy-C, PVDF	Titanium, Tantalum, SS, Ceramic, Hastelloy-C, PVDF	Titanium, Tantalum, SS, Ceramic, Hastelloy-C, PVDF	N/A	Tungsten Carbide GRP 1, 316 SS	Tungsten Carbide GRP 1, 316 SS	N/A	N/A	N/A	N/A
O-ring	FPM, EPDM, FFPM	FPM, EPDM, FFPM	FPM, EPDM, FFPM	FPM, EPDM, FFPM	N/A	FPM or EPDM	FPM	FPM	FPM or EPDM	FPM
Other	None	None	None	316L SS Hastelloy-C, or Titanium	Carbon Fiber reinforced PTFE (bearings), Klinger sil C-4401 (gasket)	Carbon Fiber reinforced PTFE (bearings)	N/A	PTFE	Ceramic	PVDF insulator
Fluid Temperature (°C)*	-18 °C to 100 °C	-18 °C to 85 °C	-18 °C to 85 °C	0 °C to 85 °C	-18 °C to 149 °C	100 °C	0 °C to 80 °C	-30 °C to 120 °C	-20 °C to 70 °C	-15 °C to 85 °C
Fluid Temperature (°F)*	0 °F to 212 °F	0 °F to 185 °F	0 °F to 185 °F	32 °F to 185 °F	0 °F to 300 °F	212 °F	32 °F to 176 °F	-22 °F to 248 °F	-4 °F to 158 °F	5 °F to 185 °F
Max. Operating Pressure**	14 bar (200 psi)	14 bar (200 psi)	12.5 bar (180 psi)	10.3 bar (150 psi)	103 bar (1500 psi @ safety factor 1.5)	17 bar (250 psi)	5.5 bar (80 psi)	5.5 bar (80 psi)	9.3 bar (130 psi)	20.7 bar (300 psi) @ 25 °C (77 °F)
Standards and Approvals	RoHS compliant, China RoHS	CE, FCC, RoHS compliant, China RoHS	CE, FCC, UL, RoHS compliant, China RoHS	CE, FCC, UL (display version only), CUL, RoHS compliant, China RoHS	RoHS compliant, China RoHS	CE, FCC, RoHS compliant, China RoHS	N/A	CE, FCC, RoHS compliant, China RoHS	CE, FCC, RoHS compliant, China RoHS	CE, FCC, RoHS compliant, China RoHS
Power Requirements	None	5 to 24 VDC, ±10%, regulated	5 to 24 VDC, ±10%, regulated	5 to 24, 24 VDC, ±10%, regulated	None	5 to 24 VDC, ±10%, regulated	5 to 24 VDC, ±10%, regulated	5 to 24 VDC, ±10%, regulated	5 to 24 VDC, ±10%, regulated	5 to 24, 24 VDC, ±10%, regulated
Output	AC frequency	Open collector	Open collector, 4 to 20 mA, Digital (S^3L) AC Relay, Solid State Relay	Frequency, digital (S^3L), 4-20 mA output or relay	AC frequency	Open Collector	Open Collector	Open Collector	Open Collector	Frequency, digital, or 4 to 20 mA output
Compatible Signet Flow Instruments	All	All except 5090 & 8150	All except 5090 & 8150	All except 5090 & 8150	All except 5090	All except 5090 & 8150	All except 5090, 8150	All except 5090, 8150	All except 5090, 8150	All except 5090, 8150
Comments	General Purpose Sensor with installation fittings for many materials	General Purpose Sensor with installation fittings for many materials	Various output versions available to suit application needs	Features empty pipe detection, bi-directional flow, optional multi-language display	For high pressure, high temperature applications	Steel sensor, low flow capability requires no custom fittings	Lowest flow range: 110 mL/min. PPS body for tough service, good chemical resistance	Excellent chemical resistance, note significant pressure drop	Excellent chemical resistance, replaceable electronics, affordable package	Features empty pipe detection, hot-tap version available, bi-directional flow
Moving Parts	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No
Suitable for High Purity Applications	Yes	Yes	Yes	for >20 µS	No	No	No	Yes	Yes	No

* Derated by Pressure (type of fitting may also effect rating)
** Derated by Temperature (type of fitting may also effect rating)

SIGNET Flow Sensors

GF Signet 515 Rotor-X Paddlewheel Flow Sensors



Standard Integral Wet-Tap

Simple to install with time honored reliable performance, Model 515 Rotor-X paddlewheel flow sensors are highly repeatable, rugged sensors that offer exceptional value with little or no maintenance. The output signal of the Model 515 is a sinusoidal frequency capable of driving a self-powered flowmeter (Model 5090). The wide dynamic flow range of 0.3 to 6 m/s (1 to 20 ft/s) allows the sensor to measure liquid flow rates in full pipes and can be used in low pressure systems.

The Model 515 sensors are offered in a variety of materials for a wide range of pipe sizes and insertion configurations. The many material choices include PP and PVDF make this model highly versatile and chemically compatible to many liquid process solutions. Sensors can be installed in up to DN900 (36 in.) pipes using Signet's comprehensive line of custom fittings. These custom fittings, which include tees, saddles, and weldolets, set the sensor to the proper insertion depth into the process flow. The sensors are also offered in configurations for wet-tap and intrinsically safe installation requirements.

Features:

- Operating range 0.3 to 6 m/s (1 to 20 ft/s)
- Wide turndown ratio of 20:1
- Highly repeatable output
- Simple, economical design
- Self-powered/no external power required
- Test certificate included for -X0, -X1
- Chemically resistant materials
- Installs into pipe sizes DN15 to DN900 (1/2 to 36 in.)

Applications:

- Pure Water Production
- Filtration Systems
- Chemical Production
- Liquid Delivery Systems
- Pump Protection
- Scrubber Systems
- Water Monitoring
- Not suitable for gases

515 Standard Mount Paddlewheel

Pipe Size (in.)	Body	Rotor	Shaft	Mfg Part #	ALSCO #	Price $
1/2 - 4	PP	PVDF	Hastelloy-C	P51530-H0	P51530-H0	436.00
1/2 - 4	PP	PVDF	Titanium	P51530-P0	9047	438.00
1/2 - 4	PP	PVDF	PVDF	P51530-S0	P51530-S0	487.00
1/2 - 4	PVDF	PVDF	PVDF	P51530-T0	9053	744.00
1/2 - 4	PVDF	PVDF	Hastelloy-C	P51530-V0	9050	779.00
5 - 8	PP	PVDF	Titanium	P51530-P1	9048	426.00
5 - 8	PVDF	PVDF	PVDF	P51530-T1	9054	811.00
5 - 8	PVDF	PVDF	Hastelloy-C	P51530-V1	9051	806.00
10 - 36	PP	PVDF	Titanium	P51530-P2	9049	491.00
10 - 36	PVDF	PVDF	Hastelloy-C	P51530-V2	9052	840.00

515 Integral Mount Paddlewheel

Pipe Size (in.)	Body	Rotor	Shaft	Mfg Part #	ALSCO #	Price $
1/2 - 4	PP	PVDF	Titanium	3-8510-P0	9108	352.00
1/2 - 4	PVDF	PVDF	PVDF	3-8510-T0	3-8510-T0	710.00
1/2 - 4	PVDF	PVDF	Hastelloy-C	3-8510-V0	9110	700.00
5 - 8	PP	PVDF	Titanium	3-8510-P1	9109	398.00

515 Wet-Tap Mount Paddlewheel

Pipe Size (in.)	Body	Rotor	Shaft	Mfg Part #	ALSCO #	Price $
1/2 - 4	PP	PVDF	Titanium	P51530-P3	9140	680.00
5 - 8	PP	PVDF	Titanium	P51530-P4	9141	754.00
10 - 36	PP	PVDF	Titanium	P51530-P5	9142	809.00

GF Signet 2536 Rotor-X Paddlewheel Flow Sensors



PVC Sensor Standard Sensor Integral Sensor Wet-Tap Sensor

Simple to install with time-honored reliable performance, Signet 2536 Rotor-X Paddlewheel Flow Sensors are highly repeatable, rugged sensors that offer exceptional value with little or no maintenance. The Model 2536 has a process-ready open collector signal with a wide dynamic flow range of 0.1 to 6 m/s (0.3 to 20 ft/s). The sensor measures liquid flow rates in full pipes and can be used in low pressure systems.

The Signet 2536 sensors are offered in a variety of materials for a wide range of pipe sizes and insertion configurations. The many material choices including PP and PVDF make this model highly versatile and chemically compatible to many liquid process solutions. Sensors can be installed in DN15 to DN900 (½ to 36 in.) pipes using Signet's comprehensive line of custom fittings. These custom fittings, which include tees, saddles, and weldolets, seat the sensor to the proper insertion depth into the process flow. The sensors are also offered in configurations for wet tap installation requirements.

Features:

- Operating range 0.1 to 6 m/s (0.3 to 20 ft/s)
- Wide turndown ratio of 66:1
- Open-collector output
- Highly repeatable output
- Simple, economical design
- Installs into pipe sizes DN15 to DN900 (1/2 to 36 in.)
- High resolution and noise immunity
- Test certificate included for -X0, -X1
- Chemically resistant materials

Applications:

- Pure Water Production
- Filtration Systems
- Chemical Production
- Liquid Delivery Systems
- Pump Protection
- Scrubber/Gas Systems
- Gravity Feed Lines
- Not suitable for gases

2536 Standard Mount Paddlewheel

Pipe Size (in.)	Body	Rotor	Shaft	Mfg Part #	ALSCO #	Price $
1/2 - 4	PP	PVDF	Titanium	3-2536-P0	9211	475.00
1/2 - 4	PVDF	PVDF	PVDF	3-2536-T0	9216	844.00
1/2 - 4	PVC	ETFE	Titanium	3-2536-U0	3-2536-U0	492.00
1/2 - 4	PVDF	PVDF	Hastelloy-C	3-2536-V0	9214	817.00
5 - 8	PP	PVDF	Titanium	3-2536-P1	9212	502.00
5 - 8	PVDF	PVDF	Hastelloy-C	3-2536-V1	9215	844.00
10 - 36	PP	PVDF	Titanium	3-2536-P2	9213	526.00

2536 Integral Mount Paddlewheel

Pipe Size (in.)	Body	Rotor	Shaft	Mfg Part #	ALSCO #	Price $
1/2 - 4	PP	PVDF	Titanium	3-8512-P0	9226	356.00
1/2 - 4	PVDF	PVDF	PVDF	3-8512-T0	3-8512-T0	739.00
1/2 - 4	PVDF	PVDF	Hastelloy-C	3-8512-V0	3-8512-V0	674.00
5 - 8	PP	PVDF	Titanium	3-8512-P1	9227	398.00

2536 Wet-Tap Mount Paddlewheel

Pipe Size (in.)	Body	Rotor	Shaft	Mfg Part #	ALSCO #	Price $
1/2 - 4	PP	PVDF	Titanium	3-2536-P3	3-2536-P3	725.00
5 - 8	PP	PVDF	Titanium	3-2536-P4	3-2536-P4	792.00
10 - 36	PP	PVDF	Titanium	3-2536-P5	3-2536-P5	844.00

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SIGNET Flow Sensors

GF Signet 2537 Paddlewheel Flowmeter



The Signet 2537 Flowmeter is the next generation in fluid measurement technology from the inventor of the original paddlewheel flowmeter. This sensor is an improvement on what's already an industry standard. It has the added functionality of various output options including flow switch, multi-functional pulse, digital (S^3L) or 4 to 20 mA. Additionally, it offers low flow, low power and high resolution and can be configured on site directly through the built-in user interface.

Installation is simple because the Signet 2537 utilizes the same fittings as the popular Signet 515 and 2536 Paddlewheel Sensors and fits into pipe sizes ranging from DN15 to DN200 (1/2 to 8 inches). Available in Polypropylene and PVDF, it is ideal for a variety of applications including chemical processing, water and wastewater monitoring and scrubber control.

Features:
- Digital (S^3L) or 4 to 20 mA outputs or (Multi-function)
- Allows for up to six sensors to Signet 8900 Controller
- Low flow capabilities down to 0.1 m/s (0.3 ft/s)
- Polypropylene or PVDF sensor bodies
- Polypropylene and PVDF retaining nuts standard, Valox optional
- Installs into pipe sizes DN15 to DN200 (1/2 to 8 in.)
- Test certificate included for -X0, -X1
- Low power and high resolution

Applications:
- Process Flow Monitoring
- Pump Protection
- Pure Water Production
- Filtration Systems
- Chemical Production
- Reverse Osmosis
- Demineralization/Regeneration
- Fume Scrubbers
- Cooling Towers
- Proportional Metering Pump

2537 Paddlewheel Flowmeter

Pipe Size (in.)	Body Material	Rotor Material	Shaft Material	Description	Mfg Part #	Price $
1/2 - 4	Polypropylene	Black PVDF	Titanium	Pulse/Flow Switch DCR	3-2537-1C-P0	672.00
1/2 - 4	Polypropylene	Black PVDF	Titanium	Pulse/Flow Switch SSR	3-2537-2C-P0	672.00
1/2 - 4	Polypropylene	Black PVDF	Titanium	Digital (S^3L)	3-2537-5C-P0	703.00
1/2 - 4	Polypropylene	Black PVDF	Titanium	4 to 20 mA	3-2537-6C-P0	737.00
1/2 - 4	Natural PVDF	Natural PVDF	Natural PVDF	Pulse/Flow Switch DCR	3-2537-1C-T0	801.00
1/2 - 4	Natural PVDF	Natural PVDF	Natural PVDF	Pulse/Flow Switch SSR	3-2537-2C-T0	801.00
1/2 - 4	Natural PVDF	Natural PVDF	Natural PVDF	Digital (S^3L)	3-2537-5C-T0	842.00
1/2 - 4	Natural PVDF	Natural PVDF	Natural PVDF	4 to 20 mA	3-2537-6C-T0	879.00
5 - 8	Polypropylene	Black PVDF	Titanium	Pulse/Flow Switch DCR	3-2537-1C-P1	703.00
5 - 8	Polypropylene	Black PVDF	Titanium	Pulse/Flow Switch SSR	3-2537-2C-P1	703.00
5 - 8	Polypropylene	Black PVDF	Titanium	Digital (S^3L)	3-2537-5C-P1	737.00
5 - 8	Polypropylene	Black PVDF	Titanium	4 to 20 mA	3-2537-6C-P1	769.00

GF Signet 5090 Sensor-Powered Flow Monitor



Sensor Powered - external power not required.

Member of the ProcessPro® Family of Instruments

The Signet 5090 Sensor Powered Flow Monitor is the simplest and most economical instrument in the Signet offering. It features a balanced-spring meter movement that is powered by the AC output of the Signet 515 Paddlewheel Flow Sensor. No additional power source is required.

This unique system is suitable for a wide range of flow rates. Packaged in a ¼ DIN housing with a NEMA 4X/ IP65 front panel, the 5090 is the first choice for simple flow monitoring, even in the most demanding industrial environments.

Features:
- High visibility analog display
- Sensor-powered flow rate indication up to 60 m (200 ft) from sensor installation
- Wide flow range: 1 to 20 ft/s in pipe sizes DN15 to D900 (1/2 to 36 in.)
- Single-point calibration from front panel

Applications:
- Filtration Systems
- Remote Flow Monitoring
- Process Cooling Water
- Commercial Pools & Spas
- Distribution Systems
- HVAC
- Process Flow Monitoring

5090 Sensor-Powered Flow Monitor

Description	Mfg Part #	ALSCO #	Price $
Sensor-Powered Flow Monitor	3-5090	9300	457.00

SIGNET Flow Sensors

GF Signet 2551 Magmeter Flow Sensors



The Signet 2551 Magmeter is an insertion style magnetic flow sensor that features no moving parts. The patented* sensor design is available in corrosion-resistant materials to provide long-term reliability with minimal maintenance costs. Material options include PP with stainless steel, PVDF with stainless steel, PVDF with Hastelloy-C, or PVDF with Titanium. Utilising the comprehensive line of Signet installation fittings, sensor alignment and insertion depth is automatic. These versatile, simple-to-install sensors deliver accurate flow measurement over a wide dynamic range in pipe sizes ranging from DN15 to DN900 (1/2 to 36 inches), satisfying the requirements of many diverse applications.

Signet 2551 Magmeters offer many output options of frequency/digital (S^3L) or 4 to 20 mA which are available on both the blind and display versions. The frequency or digital (S^3L) sensor output can be used with Signet's extensive line of flow instruments while the 4 to 20 mA output can be used for a direct input to PLCs, chart recorders, etc. Both the 4 to 20 mA output and digital (S^3L) sensor interface is available for long distance signal transmission. An additional benefit is the empty pipe detection which features a zero flow output when the sensors are not completely wetted. Also, the frequency output is bi-directional while the 4 to 20 mA output can be set for uni- or bi-directional flow using the display or the 3-0250 USB to Digital (S^3L) Configuration / Diagnostic set-up tool which connects to PCs for programming capabilities.

In addition the display version of the 2551 Magmeter is available with relays and features permanent and resettable total values which can be seen on the display. Also, the display contains multi-languages with English, Spanish, German, French, Italian and Portuguese menu options.

Features:
- Test certificate included for -X0, -X1
- Patented Magmeter technology*
- No moving parts
- Bi-directional flow
- Empty pipe detection
- Installs into pipe sizes DN15 to DN900 (0.5 to 36 in.)
- Operating range 0.05 to 10 m/s (0.15 to 33 ft/s)
- Accurate measurement even in dirty liquids
- Polypropylene and PVDF retaining nuts standard, Valox optional
- Blind 4 to 20 mA, digital (S^3L), frequency, relay output
- No pressure drop
- Corrosion resistant materials; PP or PVDF with SS, Hastelloy-C, or Titanium
- Multi-language display menu available

Applications:
- Chemical Processing
- Water and Wastewater Monitoring
- Metal Recovery and Landfill Leachate
- Commercial Pools, Spas, and Aquariums
- HVAC
- Irrigation
- Scrubber Control
- Neutralization Systems
- Industrial Water Distribution

5

Frequency or Digital (S^3L) Output

programmable open collector for use with any Signet Flow Instrument or the 8900 or 9900 Instruments**

No Display

Pipe Size (in.)	Sensor Body	Mfg Part #	Price $
1/2 - 4	Polypropylene & 316L SS	3-2551-P0-11	1157.00
1/2 - 4	PVDF & Titanium	3-2551-T0-11	1655.00
1/2 - 4	PVDF & Hastelloy-C	3-2551-V0-11	1571.00
5 - 8	Polypropylene & 316L SS	3-2551-P1-11	1191.00
5 - 8	PVDF & Titanium	3-2551-T1-11	1687.00
5 - 8	PVDF & Hastelloy-C	3-2551-V1-11	2237.00
10 - 36	Polypropylene & 316L SS	3-2551-P2-11	1655.00
10 - 36	PVDF & Titanium	3-2551-T2-11	2155.00
10 - 36	PVDF & Hastelloy-C	3-2551-V2-11	2155.00

With Display, 2 SPDT Relays, 1 Solid State Relay

Pipe Size (in.)	Sensor Body	Mfg Part #	Price $
1/2 - 4	Polypropylene & 316L SS	3-2551-P0-21	2071.00
1/2 - 4	PVDF & Titanium	3-2551-T0-21	2702.00
1/2 - 4	PVDF & Hastelloy-C	3-2551-V0-21	2490.00
5 - 8	Polypropylene & 316L SS	3-2551-P1-21	2103.00
5 - 8	PVDF & Titanium	3-2551-T1-21	2737.00
5 - 8	PVDF & Hastelloy-C	3-2551-V1-21	2521.00
10 - 36	Polypropylene & 316L SS	3-2551-P2-21	2702.00
10 - 36	PVDF & Titanium	3-2551-T2-21	3201.00
10 - 36	PVDF & Hastelloy-C	3-2551-V2-21	3201.00

With Display

Pipe Size (in.)	Sensor Body	Mfg Part #	Price $
1/2 - 4	Polypropylene & 316L SS	3-2551-P0-41	1697.00
1/2 - 4	PVDF & Titanium	3-2551-T0-41	2194.00
1/2 - 4	PVDF & Hastelloy-C	3-2551-V0-41	2112.00
5 - 8	Polypropylene & 316L SS	3-2551-P1-41	1730.00
5 - 8	PVDF & Titanium	3-2551-T1-41	2228.00
5 - 8	PVDF & Hastelloy-C	3-2551-V1-41	2147.00
10 - 36	Polypropylene & 316L SS	3-2551-P2-41	2194.00
10 - 36	PVDF & Titanium	3-2551-T2-41	2692.00
10 - 36	PVDF & Hastelloy-C	3-2551-V2-41	2692.00

**This option is a programmable open collector output that is available with display versions only.

4 to 20 mA Output

for use with PLC, PC or similar equipment

No Display

Pipe Size (in.)	Sensor Body	Mfg Part #	Price $
1/2 - 4	Polypropylene & 316L SS	3-2551-P0-12	1157.00
1/2 - 4	PVDF & Titanium	3-2551-T0-12	1655.00
1/2 - 4	PVDF & Hastelloy-C	3-2551-V0-12	1571.00
5 - 8	Polypropylene & 316L SS	3-2551-P1-12	1191.00
5 - 8	PVDF & Titanium	3-2551-T1-12	1687.00
5 - 8	PVDF & Hastelloy-C	3-2551-V1-12	1604.00
10 - 36	Polypropylene & 316L SS	3-2551-P2-12	1780.00
10 - 36	PVDF & Titanium	3-2551-T2-12	2278.00
10 - 36	PVDF & Hastelloy-C	3-2551-V2-12	2278.00

With Display, 2 SPDT Relays, 1 Solid State Relay

Pipe Size (in.)	Sensor Body	Mfg Part #	Price $
1/2 - 4	Polypropylene & 316L SS	3-2551-P0-22	2194.00
1/2 - 4	PVDF & Titanium	3-2551-T0-22	2827.00
1/2 - 4	PVDF & Hastelloy-C	3-2551-V0-22	2612.00
5 - 8	Polypropylene & 316L SS	3-2551-P1-22	2228.00
5 - 8	PVDF & Titanium	3-2551-T1-22	2860.00
5 - 8	PVDF & Hastelloy-C	3-2551-V1-22	2646.00
10 - 36	Polypropylene & 316L SS	3-2551-P2-22	2827.00
10 - 36	PVDF & Titanium	3-2551-T2-22	3325.00
10 - 36	PVDF & Hastelloy-C	3-2551-V2-22	3325.00

With Display

Pipe Size (in.)	Sensor Body	Mfg Part #	Price $
1/2 - 4	Polypropylene & 316L SS	3-2551-P0-42	1821.00
1/2 - 4	PVDF & Titanium	3-2551-T0-42	2319.00
1/2 - 4	PVDF & Hastelloy-C	3-2551-V0-42	2237.00
5 - 8	Polypropylene & 316L SS	3-2551-P1-42	1855.00
5 - 8	PVDF & Titanium	3-2551-T1-42	2354.00
5 - 8	PVDF & Hastelloy-C	3-2551-V1-42	2271.00
10 - 36	Polypropylene & 316L SS	3-2551-P2-42	2319.00
10 - 36	PVDF & Titanium	3-2551-T2-42	2818.00
10 - 36	PVDF & Hastelloy-C	3-2551-V2-42	2818.00

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SIGNET Flow Sensors

GF Signet 525 Metalex Paddlewheel Flow Sensor



The Signet 525 Metalex Paddlewheel Flow Sensor combines stainless steel construction with insertion paddlewheel technology. The result is a highly reliable sensor suitable for operating at extreme pressures and temperatures. The Tungsten Carbide shaft and carbon fiber reinforced bearing provides excellent wear resistance for extended service.

A comprehensive fitting program allows installation in steel lines with the mini-block for small diameters, and either the mini-tap or saddle for pipes up to DN300 (12 in.). The self-generating signal output allows use with battery operated flow monitor (8150).

Features:
- For up to 103 bar (1500 psi @ safety factor 1.5) pressure
- For up to 149 °C (300 °F) temperature
- DN15 to DN300 (½ to 12 in.) pipe range
- Simple installation
- Self-powered/no external power required
- 316 SS body
- Tungsten Carbide or SS shaft
- 7.6 m (25 ft) cable included
- Operating range 0.5 to 6 m/s (1.6 to 20 ft/s)

Applications:
- Boiler Feedwater Monitoring
- HVAC
- Chemical Transport
- Heat Exchangers
- Reverse Osmosis
- Cooling Systems
- Not suitable for gases

525 Metalex Paddlewheel Flow Sensor

Description	Rotor Pin Material	Mfg Part #	ALSCO #	Price $
used with 1/2 to 1 inch socket-weld mini-tap fittings	Tungsten Carbide	P525-1	9072	710.00
used with 1 1/4 to 12 inch weld-on mini-tap fittings	Tungsten Carbide	P525-2	9073	710.00
used with 1/2 to 1 inch socket-weld mini-tap fittings	316 Stainless Steel	P525-1S	P525-1S	683.00
used with 1 1/4 to 12 inch weld-on mini-tap fittings	316 Stainless Steel	P525-2S	P525-2S	683.00

5

GF Signet 2540 Stainless Steel High Performance Paddlewheel Flow Sensors



Standard



Hot-Tap

The Signet 2540 Paddlewheel Flow Sensor offers the strength and corrosion resistance of stainless steel for liquid applications with low velocity measurements. Unique internal circuitry eliminates the need for magnets in the process fluid, enabling flow measurement of 0.1 to 6 m/s (0.3 to 20 ft/s) while maintaining the advantages of insertion sensor design. Ultraflon 500C bearings and Tungsten Carbide pin provide exceptional wear resistance.

The Signet 2540 offers field replaceable electronics and transient voltage suppression (TVS) to provide greater immunity to large voltage disturbances (i.e. lightning) sometimes encountered in field wiring. Sensors can be installed in DN40 to DN600 (1 1/2 to 24 inch) pipes using the 1 1/2 inch or ISO 7/1-R 1.5 threaded process connection.

The sensors are also offered in a hot-tap configuration with a bleed valve service without process shutdown in pipes up to DN900 (36 in.). Both styles of sensors must be used in full pipes and can be used in low pressure systems.

Features:
- Operating range 0.1 to 6 m/s (0.3 to 20 ft/s)
- Field replaceable electronics
- Non-magnetic RF detection
- Standard NPT or ISO process connections
- Hot-tap versions for installation/service without system shutdown
- For pipe sizes up to DN900 (36 in.)
- Adjustable sensor - one size for entire pipe range
- 7.6 m (25 ft) cable

Applications:
- HVAC
- Turf Irrigation
- Cooling Systems
- Filtration Systems
- Water Distribution
- Leak Detection
- Pump Protection
- Clarified Effluent Totalization
- Ground Water Remediation
- Gravity Feed Line

2540 Stainless Steel High Performance Paddlewheel Flow Sensor

Mounting Option	Rotor Pin Material	Mfg Part #	ALSCO #	Price $
1 1/2 inch NPT thread	Tungsten Carbide	3-2540-1	9075	748.00
1 1/2 inch ISO thread	Tungsten Carbide	3-2540-2	3-2540-2	726.00
1 1/2 inch NPT thread, Hot-Tap design*	Tungsten Carbide	3-2540-3	9075-1	1046.00
1 1/2 inch ISO thread, Hot-Tap design*	Tungsten Carbide	3-2540-4	3-2540-4	1016.00
1 1/2 inch NPT thread	316 Stainless Steel	3-2540-1S	3-2540-1S	873.00
1 1/2 inch ISO thread	316 Stainless Steel	3-2540-2S	3-2540-2S	873.00
1 1/2 inch NPT thread, Hot-Tap design*	316 Stainless Steel	3-2540-3S	3-2540-3S	1157.00
1 1/2 inch ISO thread, Hot-Tap design*	316 Stainless Steel	3-2540-4S	3-2540-4S	1157.00

*Must use 3-1500.663 Hot-Tap installation tool (ordered separately)

SIGNET Flow Sensors

GF Signet 2000 Micro Flow Rotor Sensor



The Signet 2000 Micro Flow Rotor Sensor is constructed of Polyphenylene Sulfide (PPS) which provides high material strength. The 2000 offers two flow ranges starting at 0.11 or 1.13 lpm (0.03 or 0.3 gpm), for clean process liquids, regardless of fluid color or opacity.

This sensor can be connected to flexible tubing or rigid pipe, and uses standard hardware for mounting. Only one moving part and a low pressure drop across the sensor reduces operating costs and maintenance requirements.

Features:
- Operating range 0.11 to 12.11 lpm (0.03 to 3.2 U.S. gpm)
- Simple mounting
- 1/4 in. NPT or ISO threads for simple pipe or tubing connection
- Measures opaque and transparent liquids
- Low pressure drop
- Standard cable 7.6 m (25 ft)

Applications:
- Coolant Flow
- Dosing
- Batch Dispensing
- Not recommended for Strong Oxidizers

2000 Micro Flow Rotor Sensor

Flow Range	End Fittings	Mfg Part #	ALSCO #	Price $
Low flow, 0.11 to 2.61 lpm (0.03 to 0.7 gpm)	1/4 NPT threads	3-2000-11	9312	479.00
Low flow, 0.11 to 2.61 lpm (0.03 to 0.7 gpm)	ISO 7/1-R1/4 threads	3-2000-12	9313	479.00
High flow, 1.13 to 12.11 lpm (0.3 to 3.2 gpm)	1/4 NPT threads	3-2000-21	9314	479.00
High flow, 1.13 to 12.11 lpm (0.3 to 3.2 gpm)	ISO 7/1-R1/4 threads	3-2000-22	9315	479.00

5

GF Signet 2552 Metal Magmeter Flow Sensors



The Signet 2552 Metal Magmeter from Georg Fischer features all-stainless steel construction. The PVDF nosepiece and FPM O-rings are the only other wetted materials. The 2552 installs quickly into standard 1 1/4 in. or 1 1/2 in. pipe outlets, and is adjustable to fit pipes from DN50 to DN2550 (2 to 102 inches). Two sensor lengths allow maximum flexibility to accommodate a variety of hardware configurations, including ball valves for hot tap installations.

When equipped with the frequency output, the 2552 is compatible with any externally powered Signet flow instrument, while the digital (S^3L) output enables multi-channel compatibility with the Signet 8900 Multi-Parameter Controller. Select the blind 4 to 20 mA current output to interface directly with data loggers, PLCs or telemetry systems. Key features include Empty Pipe Detection, LED-assisted troubleshooting, and bi-directional span capability (in 4 to 20 mA models).

The Signet 3-0250 USB to Digital (S^3L) Configuration/ Diagnostic Tool is available to customize every performance feature in the 2552 so it can be adapted to the user's application requirements.

Features:
- NIST test certificate included
- Award winning hot-tap magnetic flow sensor up to DN2550 (102 in.)
- Patented Magmeter technology*
- Operating range 0.05 to 10 m/s (0.15 to 33 ft/s)
- Reliable operation in harsh environments
- Repeatable: ±0.5% of reading @ 25 °C
- Three output options: 4 to 20 mA, Frequency, Digital (S^3L)
- ISO or NPT Threads

Applications:
- Municipal Water Distribution
- Process and Coolant Flow
- Chemical Processing
- Wastewater
- Mining Applications
- Water Process Flow
- HVAC

Frequency or Digital (S^3L) Output

Fixed Cable, 7.6 m (25 ft); No Connector

Sensor Insertion Depth	Process Connection Thread Options	Mfg Part #	Price $
9.3 inches*	1 1/4 inch NPT**	3-2552-21-A-11	2240.00
9.3 inches*	1 1/4 inch ISO**	3-2552-22-A-11	2240.00
14.8 inches*	1 1/2 inch NPT**	3-2552-33-A-11	3858.00
14.8 inches*	1 1/2 inch ISO**	3-2552-34-A-11	3858.00

Watertight Sensor Connector; Cable Sold Separately

Sensor Insertion Depth	Process Connection Thread Options	Mfg Part #	Price $
9.3 inches*	1 1/4 inch NPT**	3-2552-21-B-11	2240.00
9.3 inches*	1 1/4 inch ISO**	3-2552-22-B-11	2240.00
14.8 inches*	1 1/2 inch NPT**	3-2552-33-B-11	3858.00
14.8 inches*	1 1/2 inch ISO**	3-2552-34-B-11	3858.00

4 to 20 mA Output

Fixed Cable, 7.6 m (25 ft); No Connector

Sensor Insertion Depth	Process Connection Thread Options	Mfg Part #	Price $
9.3 inches*	1 1/4 inch NPT**	3-2552-21-A-12	2398.00
9.3 inches*	1 1/4 inch ISO**	3-2552-22-A-12	2398.00
14.8 inches*	1 1/2 inch NPT**	3-2552-33-A-12	4011.00
14.8 inches*	1 1/2 inch ISO**	3-2552-34-A-12	4011.00

Watertight Sensor Connector; Cable Sold Separately

Sensor Insertion Depth	Process Connection Thread Options	Mfg Part #	Price $
9.3 inches*	1 1/4 inch NPT**	3-2552-21-B-12	2398.00
9.3 inches*	1 1/4 inch ISO**	3-2552-22-B-12	2398.00
14.8 inches*	1 1/2 inch NPT**	3-2552-33-B-12	4011.00
14.8 inches*	1 1/2 inch ISO**	3-2552-34-B-12	4011.00

* Customer must determine stack height (ball valve, nipple, weldolet, etc.). Refer to Sensor Selection on previous page to determine "A" dimension. Sensor tip must be positioned at 10% of pipe ID.
** 1 1/4 inch process connection is the standard thread size on the 3-2552-2X-X-XX: For the 2552-3 the 1 1/2 inch process connection is standard and the 1 1/4 inch is available as a special order.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 011419

SIGNET Flow Sensors

GF Signet 2507 Mini Flow Rotor Sensor



The Signet 2507 Mini Flow Rotor Sensor contains a free-running rotor that is driven by the fluid flow. Within the given measurement range, the rotational speed of the rotor is proportional to the fluid flow rate.

Magnets built into the rotor trigger an electronic switch in the top of the sensor creating a square-wave output. Both opaque and transparent fluids can be measured with kinematic viscosities between 0.2 to 20.0 centistokes.

Features:
- Operating range 400 to 12,000 ml/m (0.1 to 3.2 U.S. gpm)
- Detachable signal connector for easy servicing
- Simple installation with a G 1/4 in. (1/4 in. NPT) threaded connection
- Standard 7.6 m (25 ft) cable
- PVDF construction
- Compact assembly

Applications:
- Fluid Dispensing
- Laboratory and Clinical Wet Benches
- Chemical Dosing
- Batch Processes

2507 Mini Flow Rotor Sensor

Insert Option	Mfg Part #	ALSCO #	Price $
With 2 mm insert; for 0.15 to 0.740 gpm (400 to 2800 mL/m)	3-2507.100-2V	9084	1018.00
With 3 mm insert, for 0.185 to 1.123 gpm (700 to 4200 mL/m)	3-2507.100-3V	9085	1018.00
With 4 mm insert, for 0.343 to 1.585 gpm (1300 to 6000 mL/m)	3-2507.100-4V	9086	1018.00
With 6 mm inlet, no insert, for 0.845 to 3.170 gpm (3200 to 12000 mL/m)	3-2507.100-6V	9087	1018.00

5

GF Signet 2100 Turbine Flow Sensor



Engineered specifically for small pipe diameter applications, the Signet 2100 Turbine Flow Sensor provides accurate readings in two flow ranges: 0.3 to 3.8 lpm and 3 to 38 lpm (0.1 to 1 gpm and 0.8 to 10 gpm).

The injection-molded PVDF body and ceramic bearings provide excellent chemical compatibility and long service in dosing and batching applications. Union piping and tubing connections along with removable NEMA 4X electronics allow for easy assembly and field replaceability. The 2100 can be used with DN8 (1/4 in.), DN10 (3/8 in.), DN15 (1/2 in.) tubing, or DN15 (1/2 in.) piping for simple installation. End connections are available in PVDF for hose barbs, fusion socket or IR/ butt fusion, and in PVC for socket or NPT thread.

Features:
- Operating range of 0.38 to 38 lpm (0.10 to 10 U.S. gpm)
- Non-magnetic turbine
- Union ends for various connector types
- End connector kits for rigid or flexible tubing or DN15 (1/2 in.) pipe
- PVDF & ceramic wetted parts provide superior chemical compatibility
- For use with both clear and opaque fluids
- Small and compact design
- 4.6 m (15 ft) cable
- Features removable electronics that install from either side of the sensor

Applications:
- Chemical Addition
- Textile Dyeing
- High-purity Chemical Dispensing
- Water Addition
- Fertigation
- Dosing
- Pump Protection
- Not suitable for gases

2100 Turbine Flow Sensor

Flow Range	O-ring	Mfg Part #	ALSCO #	Price $
Low, 0.38 to 3.8 lpm (0.10 to 1 gpm)	FPM	3-2100-1L	9179	330.00
Low, 0.38 to 3.8 lpm (0.10 to 1 gpm)	EPDM	3-2100-2L	9180	363.00
High, 3 to 38 lpm (0.8 to 10 gpm)	FPM	3-2100-1H	9181	363.00
High, 3 to 38 lpm (0.8 to 10 gpm)	EPDM	3-2100-2H	9182	363.00

Note: To install this flow sensor, end fittings must be installed on both ends of the sensor. Two Connector Kits are required per Turbine Flow Sensor.

Connector Kit End Fittings for 2100 Turbine Flow Sensor

Type of End Fitting	Mfg Part #	ALSCO #	Price $
Hose barb connector kit, PVDF, 1/2 inch (1-hose barb & 1-ring nut)	3-2100-31	9183	56.00
Hose barb connector kit, PVDF, 3/8 inch (1-hose barb & 1-ring nut)	3-2100-32	9184	56.00
Hose barb connector kit, PVDF, 1/4 inch (1-hose barb & 1-ring nut)	3-2100-33	9185	56.00
Fusion socket connector, PVDF, DN15 1/2 inch (1-fusion socket & 1 ring nut)	3-2100-34	9186	56.00
Butt Fusion/IR connector kit, PVDF, DN15 1/2 inch (1-IR socket & 1 ring nut)	3-2100-35	9187	56.00
Metric socket connector kit, PVC, 1/2 inch (1-solvent socket & 1 ring nut)	3-2100-36	9188	15.00
SCH 80 socket connector kit, PVC, 1/2 inch (1-solvent socket & 1 ring nut)	3-2100-37	9189	15.00
NPT thread socket connector kit, PVC, 1/2 inch (1-threaded socket & 1 ring nut)	3-2100-38	9190	18.00

All prices subject to change without notice.

GF Signet Accessories and Replacement Parts

Accessories & Replacement Parts for Flow Sensors 515, 2536, 2537, 2551

Accessories and Replacement Parts Description	515	2536	2537	2551	Mfg Part #	ALSCO #	Price $
Rotor Pins							
Pin, Titanium	X	X	X		M1546-1	9147	30.00
Pin, Hastelloy-C	X	X	X		M1546-2	9148	82.00
Pin, Tantalum	X	X	X		M1546-3	9149	165.00
Pin, Stainless Steel	X	X	X		M1546-4	9150	72.00
Pin, Ceramic	X	X	X		P51545	9151	165.00
O-Rings							
O-ring, FPM (2 required per sensor)	X	X	X	X	1220-0021	9153	4.00
O-ring for clear plastic cap, EPR (EPDM)				X	1222-0042	1222-0042	7.00
O-ring, EPR (EPDM) (2 required per sensor)	X	X	X	X	1224-0021	9154	9.00
O-ring, FFPM (2 required per sensor)	X	X	X	X	1228-0021	9155	218.00
Miscellaneous							
Sensor plug, Polypropylene	X	X	X	X	P31536	9157	72.00
Sensor cap, Red	X				P31542	9126	19.00
Sensor cap, Blue		X			P31542-3	P31542-3	19.00
Conduit cap	X	X			P31934	9159	19.00
Rotor kit, PVDF Natural (rotor and pin)	X				P51550-3	9152	83.00
Conduit adapter kit	X	X			P51589	9172	69.00
Cable (per foot), 2 cond. w/shield, 22 AWG	X	X			5523-0222	5523-0222	3.00
PVDF Natural, Rotor kit (rotor and pin)		X	X		3-2536.321	3-2536.321	101.00
Universal mounting kit	X	X			3-8050	9232	73.00
Universal mount junction box	X	X			3-8050-1	3-8050-1	119.00
Retaining nut replacement kit, NPT, Valox*	X	X	X	X	3-8050.390-1	3-8050.390-1	28.00
Retaining nut replacement kit, NPT, PP*	X	X	X	X	3-8050.390-3	3-8050.390-3	35.00
Retaining nut replacement kit, NPT, PVDF*	X	X	X	X	3-8050.390-4	3-8050.390-4	59.00
RC Filter kit (for relay use)			X		3-8050.396	9246	26.00
Transmitter integral mount kit*	X	X			3-8051	9234	73.00
Transmitter integral mounting kit, NPT, PP*	X	X			3-8051-1	3-8051-1	85.00
Transmitter integral mounting kit, NPT, PVDF*	X	X			3-8051-2	3-8051-2	107.00
Liquid tight connector kit, NPT (1 piece)			X		3-9000.392-1	3-9000.392-1	28.00
Liquid tight connector kit, PG13.5 (1 piece)			X		3-9000.392-2	3-9000.392-2	28.00
24 VDC Power Supply, 10W, 0.42 A			X	X	7310-1024	7310-1024	122.00
24 VDC Power Supply, 24W, 1.0 A			X	X	7310-2024	7310-2024	163.00
24 VDC Power Supply, 40W, 1.7 A			X	X	7310-4024	7310-4024	191.00
24 VDC Power Supply, 60W, 2.5 A			X	X	7310-6024	7310-6024	286.00
24 VDC Power Supply, 96W, 4.0 A			X	X	7310-7024	7310-7024	369.00

* For use with 8510 and 8512



515

515 Flow Sensor Rotors

Rotor	Mfg Part #	ALSCO #	Price $
PVDF Black	M1538-2	9143	64.00
ETFE	M1538-4	9145	72.00
Sleeved, PVDF Blk	3-0515.322-1	3-0515.322-1	87.00
Sleeve, PVDF Nat	3-0515.322-2	3-0515.322-2	90.00
Sleeved, ETFE	3-0515.322-3	3-0515.322-3	103.00



2536



2537

2536 & 2537 Flow Sensor Rotors

Rotor	Mfg Part #	Price $
Rotor, PVDF Black	3-2536.320-1	79.00
Rotor, PVDF Natural	3-2536.320-2	75.00
Rotor, ETFE	3-2536.320-3	89.00
Sleeved rotor, PVDF Black	3-2536.322-1	107.00
Sleeved rotor, PVDF Natural	3-2536.322-2	115.00
Sleeved rotor, ETFE	3-2536.322-3	121.00



525



2551

525 Flow Sensor

Description	Mfg Part #	Price $
Rotor kit (rotors, stainless steel pin, bearings, retainers)	P52509	68.00
Rotor kit (rotors, tungsten carbide pin, bearings, retainers)	P52509-2	98.00
Rotor pin, Stainless Steel (1.4401)	P52504-1	23.00
Rotor pin, Tungsten Carbide	P52504-2	70.00
Gasket (included with fitting)	P52618	10.00
Bearing, carbon fiber reinforced PTFE	P52503	10.00
Retainers, Stainless Steel	P52527	10.00
Fitting cap kit (cap and gasket)	P52628	102.00
Conduit adapter kit - ALSCO Part # 9172	P51589	65.00
Cable (per foot) 2 cond. with shield, 22 AWG	5523-3222	3.00

2551 Flow Sensor

Description	Mfg Part #	Price $
Replacement Transducers		
PP/316L SS, DN15 to DN100 (1/2 to 4 in.) pipe	3-2551-P0	681.00
PP/316L SS, DN125 to DN200 (5 to 8 in.) pipe	3-2551-P1	687.00
PP/316L SS, DN250 to DN900 (10 to 36 in.) pipe	3-2551-P2	1115.00
PVDF/Titanium, DN15 to DN100 (1/2 to 4 in.) pipe	3-2551-T0	1115.00
PVDF/Titanium, DN125 to DN200 (5 to 8 in.) pipe	3-2551-T1	1148.00
PVDF/Titanium, DN250 to DN900 (10 to 36 in.) pipe	3-2551-T2	1613.00
PVDF/Hastelloy-C, DN15 to DN100 (1/2 to 4 in.) pipe	3-2551-V0	1286.00
PVDF/Hastelloy-C, DN125 to DN200 (5 to 8 in.) pipe	3-2551-V1	952.00
PVDF/Hastelloy-C, DN250 to DN900 (10 to 36 in.) pipe	3-2551-V2	1697.00
Replacement Electronics Module		
Magmeter electronics, frequency or digital (S^3L) output	3-2551-11	545.00
Magmeter electronics, 4 to 20 mA output	3-2551-12	540.00
Magmeter display electronics, frequency or digital (S^3L) output, with relays	3-2551-21	1588.00
Magmeter display electronics, 4 to 20 mA output w/relays	3-2551-22	1715.00
Magmeter display electronics, frequency or digital (S^3L) output	3-2551-41	1083.00
Magmeter display electronics, 4 to 20 mA output	3-2551-42	1208.00

ALSCO™ SIGNET Ultrasonic Flow Sensors

GF Signet PORTAFLOW 220/330 Portable Ultrasonic Flowmeter



The Portaflow range brings simplicity to the non-invasive measurement of liquid flow. Portaflow offers the user quick and accurate flow measurement with its easy to follow menu and simple set up. Results can be achieved within minutes of opening the case. Compact, rugged and reliable, the Portaflow range has been designed to provide sustained performance in industrial environments.

Features:
- Large, easy to read graphic display with backlighting
- Easy to install thanks to flexible guide rails
- Rechargeable battery for up to 20 hours mobile operation
- Simple to follow dual function keypad
- Simple 'Quick Start' set up procedure
- Data logger for 198k data points (Type PF330)
- Analog and pulse outputs

Applications:
- Potable Water
- River Water
- Cooling Water
- Demineralised Water
- Water/Glycol Solutions
- Chemicals
- Leak Detection
- Boiler Testing

PORTAFLOW 220/330 Portable Ultrasonic Flowmeter

Description	Mfg Part #	Price $
Portaflow PF220, for pipe OD 13 mm - 114 mm	159300002	4874.00
Portaflow PF220, type B transducers for pipe OD 50 mm - 1000 mm	159300003	4509.00
Portaflow PF330, type A and B transducers for pipe OD 13 mm - 2000 mm, data logger	159300001	5249.00

GF Signet ULTRAFLOW U1000 Ultrasonic Flow Sensor



The U1000 is an ultrasonic permanent/fixed clamp-on flow metering solution for measuring flow rate. The cost effective device can either be used as a stand alone meter or as an integral part of a control loop.

The U1000 is very simple to install - clamp it on to the pipe, connect it to power and enter the pipe diameter. No special skills or tools are required.

The clamp-on design allows the installation in running systems without opening the pipe, providing minimum downtime and maximum availability. Compact, rugged and reliable, the U1000 has been designed to provide sustained performance in industrial environments.

ULTRAFLOW U1000
Ultrasonic Flow Sensor

Description	Mfg Part #	Price $
For plastic and steel pipe d25 - d115 mm	159300085	1961.00

Features:
- Large, easy to read graphic display with backlighting
- Clamp-on sensors for dry servicing
- Simple to follow programming menu
- Simple 'Quick Start' set up procedure
- Compact integral design

Applications:
- Ultrapure water measurement
- Flow measurement for heat metering
- Chilled water metering and flow measurement
- Flow measurement for chilled water energy metering
- Process water metering and flow measurement

GF Signet ULTRAFLOW U3000 / U4000 Ultrasonic Flow Sensor



The Ultraflow brings simplicity to the non-invasive measurement of liquid flow, offering the user quick and accurate flow measurement with its easy to follow menu and simple set up. Dry servicing, providing minimum downtime and maximum availability, even in a continuously running system. Compact, rugged and reliable, the Ultraflo has been designed to provide sustained performance in industrial environments.

Features:
- Large, easy to read graphic display
- Easy to install
- Clamp-on sensors for dry servicing
- Simple to follow programming menu
- Simple 'Quick Start' set up procedure
- Data logger for 198k data points (Type U4000)
- Analog and pulse outputs
- Reynolds number correction

Applications:
- HVAC & Energy System Audits
- Pump Verification
- Process Control
- Chemical Addition
- Hydraulic Systems
- Fire Systems
- Leak Detection
- Boiler Testing

ULTRAFLOW U3000 / U4000 Ultrasonic Flow Sensor

Description	230 V AC Mfg Part #	24 V DC Mfg Part #	Price $
Ultraflow U3000, for pipe OD 13 - 114 mm	159300004	159300005	4374.00
Ultraflow U3000, for pipe OD 115 - 299 mm	159300006	159300007	4499.00
Ultraflow U4000, for pipe OD 13 - 114 mm, data logger	159300008	159300009	5249.00
Ultraflow U4000, for pipe OD 115 - 299 mm, data logger	159300010	159300011	5375.00

SIGNET Level Sensors

GF Signet 2270 Ultrasonic Level Sensor



The type 2270 is a rugged, high performance ultrasonic level measurement sensor, having transducer and processing electronics incorporated in one single housing. It provides all the sophisticated echo detection features of the well accepted 2260 Ultrasonic Level Transmitters.

For single and multiple tank applications 2-wire sensors are recommended using either HART protocol or 4 to 20 mA for the direct communication with a panel mount controller or a PLC.

Either for liquid level measurement in sumps or tanks, for tank contents measurement, or open channel flow measurement, the 2270 Level Sensors provide the answer. Sensing ranges up to 6m are available. PP and PVDF sensor bodies provide best chemical resistance in applications where concentrated chemical shall be detected.

Features:
- 2 wire compact sensor
- Non-contact level measuring
- Narrow 5° beam angle
- Compact housing
- Fully temperature compensated electronics
- Outstanding signal processing software providing highly accurate measuring results
- PP or PVDF sensor body provides best
- chemical resistance"
- Secondary lightning protection
- 4 to 20 mA / HART interface

Applications:
- River water
- Seawater
- Potable water
- Demineralized water
- Treated water

2270 Ultrasonic Level Sensor / NPT Thread

Description	Mfg Part #	Price $
Range 4 m (13.1 ft), PP body	2270-P-1N-4	866.00
Range 6 m (19.7 ft), PP body	2270-P-1N-6	866.00
Range 4 m (13.1 ft), PVDF body	2270-V-1N-4	934.00
Range 6 m (19.7 ft), PVDF body	2270-V-1N-6	934.00

5

GF Signet 2282 Guided Float Switch



The Guided Float Switch is designed for economical control of liquids in tanks. The switch is remarkable for its maintenance-free compact design and reed contacts with high switch capacity. It can easily be installed in water applications as well as in chemical applications.

The encapsulated reed contact is operated by the magnet. The switching function (N/O contact/N/C contact) is determined by the installation position. The switching function is reserved by simply rotating the switch through 180°.

Features:
- Optimized chemical compatibility
- Very company design
- PP and PVDF version available
- For small tanks

Applications:
- Cooling Water
- Demineralized Water
- Water / Glycol Solutions
- Chemicals

2282 Guided Float Switch

Description	Mfg Part #	Price $
PP body, cable, 1/2" NPT	2282-P-6CN	69.00
PVDF body, cable, 1/2" NPT	2282-V-6CN	126.00

GF Signet 2285 Level Float Switch



The 2285 Level Float Switch is suitable for level switching of various liquids, sewage in shafts, tanks, basins or cisterns. The double-chambered float is made of injection molded tough polypropylene that ensures good waterproof protection.

The contacting microswitch is incorporated in the float. The cable of the level switch is absolutely waterproof and PVC insulated. Different control tasks such as liquid level monitoring and pump control can be realized. It is mercury-free contact and suitable for level switching of drinking water, raw water or polluted liquids with low solid content.

The level switching is done when the contact reaches the ±45° switching angle. The switching differential of the level switch is adjustable by the position of the counterweight on the cable. The level switches should be arranged appropriately in case of multi-level switching tasks to avoid undesired tangling of the cables.

Features:
- Hermetically molded, double chamber
- Mercury free operated micro switch
- Use for drinking wastewater

Applications:
- Tap Water
- River Water
- Sump Shafts

2285 Level Float Switch / PP

Description	Mfg Part #	Price $
Cable PVC 5 m (16.5 ft)	2285-P-6C-5	62.00
Cable PVC 10 m (33 ft)	2285-P-6C-10	82.00
Cable PVC 20 m (66 ft)	2285-P-6C-20	129.00
Counterweight for 2285 float	2285-P-weight	5.00

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SIGNET Level Sensors

GF Signet 2280 Tuning Forks



Type 2280 Tuning Forks are suitable for level detection of liquids or granular, powdered solids. Mounted on tanks filling / emptying can be controlled using these devices just as well they can generate fail-safe alarms providing overfill- or dry run protection.

The operation principle is based on the electronic circuit exciting the fork probe making it vibrate. As the medium reaches and covers the fork its vibration changes. The electronics senses the change of vibration and gives output signal after a selected delay.

Features:
- Maintenance free vibrating principle
- Independent of the liquid conductivity, dielectric constant, viscosity, pressure and temperature
- Selectable sensitivity
- relay or electronic output
- Temperatures up to 130 degrees
- ATEX and WHG approvals
- IP67, 65/68 protection, NEMA 6P

Applications:
- Potable Water
- River Water
- Cooling Water
- Demineralized Water
- Water/Glycol Solutions
- Chemicals

2280 Tuning Forks / Stainless Steel / NPT

Description	Mfg Part #	Price $
Length 69 mm (2.72 in.), Output 3-wire PNP-NPN, DIN connector	2280-S-5WNO-1	468.00
Length 69 mm (2.72 in.), Output 3-wire PNP-NPN, cable	2280-S-5WNC-1	540.00
Length 125 mm (4.92 in.), Output 3-wire PNP-NPN, DIN connector	2280-S-5WNO-2	508.00
Length 125 mm (4.92 in.), Output 3-wire PNP-NPN, cable	2280-S-5WNC-2	581.00
Length 69 mm (2.72 in.), Output 2-wire AC, DIN connector, ATEX	2280-S-5XWNO-1	1017.00
Length 69 mm (2.72 in.), Output 2-wire AC, cable, ATEX	2280-S-5XWNC-1	1090.00
Length 125 mm (4.92 in.), Output 2-wire AC, DIN connector, ATEX	2280-S-5XWNO-2	1069.00
Length 125 mm (4.92 in.), Output 2-wire AC, cable, ATEX	2280-S-5XWNC-2	1132.00
Length 69 mm (2.72 in.), PBT enclosure, 1 SPDT relay	2280-S-5WNT-1	810.00
Length 125 mm (4.92 in.), PBT enclosure, 1 SPDT relay	2280-S-5WNT-2	830.00

5

GF Signet 2281 Multipoint Switch



The Multipoint Switch is based on the conductivity principle and can be applied to liquids with conductivity higher than 10 µS/cm.

The probes have to be placed into the tank for level detection. The probe length should be in accordance with the level to be detected. Filling liquid in the tank will change the electrical conductivity between the reference probe and the outer probes. The established connection will be converted and activate a relay providing the output.

The 2281 can be utilized for alarming 2-4 level set-points, any combination of LO or HI levels. The 2281 housing must always remain out of the fluid being measured.

POA - Price On Application

Features:
- Easy on-site probe length configuration
- Fast installation due to 2 to 4 individual switching points integrated in one sensor
- Up to 4 relays for pump and valve control
- Adjustable sensitivity
- Adjustable delay time

Applications:
- Potable Water
- Cooling Water
- Chemicals
- Pump Control

GF Signet 2284 Ultrasonic Gap Switch



The Ultrasonic Gap Switch consists of Polyphenylene Sulphide (PPS) and is high corrosion resistant in most liquids. The gap switch is designed for high or low level alarm in different tank applications as well as pump control. However, if there is a liquid present, the signal will be transmitted across the gap and the integral electronics will switch the output circuitry to signal the presence of a liquid.

It can be mounted in any position in a tank using a 3/4" or 1" thread available in BSP and NPT thread forms.

Features:
- Relay Output
- Corrosion resistant PPS body
- 1" and 3/4" threaded mounting
- Small in-tank dimensions
- Compact sensor for narrow spaces
- Self contained full plastic body
- No moving parts

Applications:
- Cooling Water
- Demineralized Water
- Water / Glycol Solutions
- Chemicals
- Pump Control

2284 Ultrasonic Gap Switch

Description	Mfg Part #	Price $
Body PPS, NPT 1", cable 3 m	2284-Q-4NC	376.00

SIGNET Level Sensors

GF Signet 2290 Non-contact Radar Level Transmitter



The 25 GHz (K-band) 2290 Pulse Radars are the most progressive non-contact level transmitter technology for industrial processes. With an excellent accuracy, compact antennas and a user-friendly set-up the 2290 is an effective, simple, low cost choice for demanding level applications. GF's new K-band radar featuring ±3 mm (±0.1inch) accuracy and short dead band excels with its full plastic housing. Its antenna range incorporates a stainless steel horn and enclosed plastic tube choices.

The enclosed antenna versions can be replaced without removing the antenna enclosure from the process. Local programming of type 2290 is aided by a plug-in display module. The signal processing algorithm of the 2290 is based on years of experience with non-contact level measurement making it an excellent choice for applications simple and challenging alike.

Features:
- 19° beam angle
- Tank mapping function
- Large dot matrix LCD display
- Predefined tank shapes
- Works with fume, condensation, and light foam layers

Applications:
- Bulk Storage Tanks
- Day Tanks
- Process vessels for Mixing and Batching
  - Buffer Tanks
  - Conditioning vessels
  - Metal or Plastic

2290 Non-contact Radar Level Transmitter

Description	Mfg Part #	Price $
2290 Radar Level Transmitter, LCD, PP / PBT housing, 1 1/2" NPT	2290-P-1DN2-18	2055.00
2290 Radar Level Transmitter, LCD, PBT housing / SS316 Ti antenna, 1 1/2" NPT	2290-S-DN2-18	2344.00
2290 Radar Level Transmitter, LCD, PBT housing / PTFE antenna, 1 1/2" NPT	2290-F-DN2-18	2709.00
2290 EX Radar Level Transmitter, LCD, PP / PBT housing, 1 1/2" NPT	159300195	POA
2290 EX Radar Level Transmitter, LCD, PBT housing / SS316 Ti antenna, 1 1/2" NPT	159300197	POA

GF Signet 2291 Guided Wave Radar Level Transmitter



The 2291 Guided Wave Radar level transmitter is designed for continuous level measuring of conductive or non-conductive liquids, pulps and solids. The 2291 level gauge operates based on the well-known TDR (Time Domain Reflectometry) principle. Micropulses are sent along a probe guide at the speed of light. As soon as the impulse reaches the surface of the medium, it is reflected back to the electronic module. Level distance is directly proportional to the flight time of the impulse.

The reflected signal is dependent on the dielectric constant of the material; the feasibility of the measurement is εr ≥ 1.9. The TDR technology is unaffected by the properties of the medium as well as that of the space above it. Measurement is also unaffected by the change in the physical properties of the materials such as temperature, pressure, dielectric constant.

Features:
- Measuring range up to 6 m (19.6 ft)
- Accuracy ± 5 mm (0.2 in)
- PP / PFA coated probes available on request
- Rod and cable versions available
- Minimum εr 1.9
- 2-wire version
- Graphic LCD display
- 4 to 20 mA + HART output
- Medium temperature range: -30 °C to +90°C (-22 °F to +194 °F)
- Maximum process pressure: 40 bar (580 psi)
- IP67 protection

Applications:
- Inventory Tanks
- Day Tanks
- Process Vessels for Mixing & Batching
- Bypass Applications (requires calibration)
- Stilling-wells
- Powders
- Slightly Conductive Foams
- Low Dielectric Constant Liquids

2291 Guided Wave Radar Level Transmitter

Description	Mfg Part #	Price $
LCD, PBT housing, 1" NPT, 6m cable Ø 4mm, SS316 Ti	2291-S-1DN1-6-R	2290.00
LCD, PBT housing, 1" NPT, 2m rod Ø 8mm, SS316 Ti	2291-S-1DN1-2-D	2185.00

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SIGNET Electrodes

GF Signet pH/ORP Electrode Specifications



2724, 2725 & 2726



2734, 2735 & 2736



2764, 2765, 2766 & 2767



2774, 2775, 2776 & 2777



2756 & 2757 Wet-Tap

	2724 2726	2725	2734 2736	2735	2764 2766	2765 2767	2774 2776	2775 2777	2756 Wet-Tap	2757 Wet-Tap
Operation Range	0 to 14 pH	±2,000 mV	0 to 14 pH	±2,000 mV	0 to 14 pH	±1,500 mV	0 to 14 pH	±2,000 mV	0 to 14 pH	± 2000 mV
Connector Style	DryLoc®									
Compatible Preamps/Sensor Electronics	2750 Sensor Electronics & 2760 Sensor Preamplifiers		2750 Sensor Electronics (for 8900, 9900, 4 to 20 mA)		2750 Sensor Electronics & 2760 Sensor Preamplifiers					
Temperature Range	-10 °C to 85 °C (14 °F to 185 °F)		10 °C to 100 °C (50 °F to 212 °F)		0 °C to 95 °C (23 °F to 203 °F)		0 °C to 85 °C (32 °F to 185 °F)			
Pressure Range	6.8 bar @ -10 to 65 °C (100 psi @ 14 to 150 °F) 4 bar @ 65 to 85 °C (58 psi @ 150 to 185 °F)		6.9 bar @ -10 to 65 °C (100 psi @ 14 to 150 °F) 4 bar @ 65 to 100 °C (58 psi @ 150 to 212 °F)		6.89 bar @ 95 °C (100 psi @ 203 °F)		6.9 bar (100 psi) maximum		6.89 bar (100 psi)	
Pipe Size Range for In-line	2724-2727 pipe size range 1/2 in. to 4 in. Signet fittings or a variety of 3/4 in. fittings		2734-2735 pipe size range 1/2 in. to 4 in. Signet fittings or a variety of 3/4 in. fittings		1 in. and up		3/4 in. and up		2 1/2 in. to 12 in.	
Process Connection for Submersible	3/4 in. NPT threads or ISO 7-1/R 3/4 in. (using threads from 2750, or 2760)		3/4 in. NPT threads or ISO 7-1/R 3/4 in. or Signet flow fittings		3/4 in. NPT threads or ISO 7-1/R 3/4 in. (using threads from 2750, or 2760)				N/A	
Wetted Materials										
Body	Ryton® (PPS)								Glass or Plastic	
Reference Junction Material	Porous UHMW Polyethylene				PTFE					
O-Rings	FPM									
Sensing Element	Glass (pH) or Platinum (ORP)									
Mounting Position	Any angle, even upside down				Angle is minimum +15° from horizontal		Any angle, even upside down			
Sensor Technology	Standard				Differential		Standard			
Compatible Signet Instruments	8750, 8900, 9900		8900, 9900		8750, 8900, 9900					
Application Usage	General purpose; also options available for use in HF (< 2%) and low conductivity liquids (< 100 µS)		General purpose; also options available for use in HF (< 2%)		Re-fillable reference solution, replaceable junction. Solution ground. Harsh Chemicals (heavy metals, Hg^{++}, Cu^{+}, Pb^{++}, ClO_4^-, Br^-, I^-, CN^-, S_2^- and other chemicals that react with Ag^+ or KCl.)		Harsh Chemicals (heavy metals, Hg^{++}, Cu^{+}, Pb^{++}, ClO_4^-, Br^-, I^-, CN^-, S_2^- and other chemicals that react with Ag^+ or KCl.); options for higher temperatures are available, 110 °C (230 °F) @ 150 PSI		General purpose; sensor accessible without process shutdown	
Standards and Approvals	RoHS compliant, China RoHS		CE, FCC, RoHS compliant, China RoHS		Manufactured under ISO 9001 for Quality					

GF Signet 2724 - 2726 pH/ORP Electrodes



Flat Glass Protected Bulb

Compatible with ALL Signet pH/ORP Instruments

The Signet 2724-2726 pH and ORP Electrodes features a patented reference electrode design and uses the unique foul-proof patented DryLoc® connector. The large area PE reference junction and pathway is constructed to increase the total reference effectiveness and ensures long service life.

The DryLoc® connector with corrosion resistant gold plated contacts readily connects the sensor to the mating 2760 preamplifier or the 2750 sensor electronics. The robust Ryton® threaded sensor body and choice of flat pH, bulb pH, or flat ORP sensing elements provides broad range of chemical compatibility for a wide variety of applications. There are two optional pH sensing versions available, HF and LC. The HF version is for applications where traces of hydrofluoric acid (2% or less) will attack standard pH glass in levels of pH 6 and below. The LC version can be used for low conductivity fluids 20 - 100 µS/cm nominal and below 20 µS when mounted under controlled conditions.

The quick temperature response is available in either a PT1000 or 3 KΩ temperature sensor and allows compatibility with all Signet pH/ORP instruments. The 2724-2726 electrodes are general-purpose sensors ideal for a wide range of applications. The sensors incorporate 3/4 inch NPT or ISO 7/1-R 3/4 threads for installing into standard pipe-tees. They can also be mounted directly into Signet standard fittings, DN15 to DN100 (1/2 to 4 inch)

Features:

- Patented reference design for exceptional performance
- Mounts in Signet standard fittings from DN15 to DN100 (1/2 to 4 in.)
- 3/4" NPT or ISO 7/1-R 3/4 threaded sensors for use with reducing tees DN15 to DN100 (1/2 to 4 in.)
- Submersible Tank Applications
- Special design allows for installation at any angle, even inverted or horizontal
- Ryton® (PPS) body for broad range of chemical compatibility
- Patented DryLoc® connector with gold plated contacts
- Quick temperature response
- HF resistant glass available for trace HF of <2%
- Low conductivity sensor available for liquids down to 20 µS/cm

Applications:

- Water & Wastewater Treatment
- Neutralization Systems
- Effluent Monitoring
- Sanitization Systems
- Pool & Spa Control
- Aquatic Animal Life Support Systems
- Process Control
- Cooling Towers

Temperature element PT1000; use with 2750 sensor electronics* and Profibus Concentrator

Tip Design	Process Connection Thread Options	Mfg Part #	Price $
Flat	3/4 in. MNPT, Thread	3-2724-00	363.00
Flat	ISO 7/1-R 3/4 Thread	3-2724-01	363.00
Bulb	3/4 in. MNPT, Thread	3-2726-00	308.00
Bulb	ISO 7/1-R 3/4 Thread	3-2726-01	308.00
Bulb, HF Resistant[1]	3/4 in. MNPT, Thread	3-2726-HF-00	445.00
Bulb, HF Resistant[1]	ISO 7/1-R 3/4 Thread	3-2726-HF-01	445.00
Bulb, Low Conductivity[2]	3/4 in. MNPT, Thread	3-2726-LC-00	363.00
Bulb, Low Conductivity[2]	ISO 7/1-R 3/4 Thread	3-2726-LC-01	363.00

Temperature element 3 KΩ Balco; Compatible with both the 2750 sensor electronics* and the 2760 preamplifier**

Tip Design	Process Connection Thread Options	Mfg Part #	Price $
Flat	3/4 in. MNPT, Thread	3-2724-10	363.00
Flat	ISO 7/1-R 3/4 Thread	3-2724-11	363.00
Bulb	3/4 in. MNPT, Thread	3-2726-10	308.00
Bulb	ISO 7/1-R 3/4 Thread	3-2726-11	308.00
Bulb, HF Resistant[1]	3/4 in. MNPT, Thread	3-2726-HF-10	445.00
Bulb, HF Resistant[1]	ISO 7/1-R 3/4 Thread	3-2726-HF-11	445.00
Bulb, Low Conductivity[2]	3/4 in. MNPT, Thread	3-2726-LC-10	363.00
Bulb, Low Conductivity[2]	ISO 7/1-R 3/4 Thread	3-2726-LC-11	363.00

ORP Electrodes; Compatible with both the 2750 sensor electronics and the 2760 preamplifier

Tip Design	Process Connection Thread Options	Mfg Part #	Price $
Flat	3/4 in. MNPT, Thread	3-2725-60	391.00
Flat	ISO 7/1-R 3/4 Thread	3-2725-61	391.00

*The 2750 sensor electronics has a digital (S^3L) output which is used with 8900 or 9900 Instruments. It also has a 4 to 20 mA output for connections to PLC's, data recorders, etc.
**The 2760 preamplifier is used for connection directly to Signet 8750 Transmitter or other analog transmitters.
[1]HF resistant ≤2% HF
[2]Low conductivity applications, 20 - 100 µS/cm recommended

GF Signet 2734 - 2736 pH/ORP Electrodes



Flat Glass Protected Bulb

Not compatible with the Signet 2760 Preamplifier or the 8750 Instrument

The Signet 2734-2736 pH and ORP Electrodes features a patented reference electrode design and uses the unique foul-proof patented DryLoc® connector. The large area PTFE reference junction, salt bridge and reference electrode are constructed to increase the total reference effectiveness, resist chemical attack, and ensure long service life.

The DryLoc® connector with corrosion resistant gold plated contacts readily connects the sensor to the mating 2750 sensor electronics. The robust Ryton® threaded sensor body and choice of flat, bulb pH, or flat ORP sensing elements provide a broad range of chemical compatibility for a wide variety of applications. There is an optional pH sensing version available for applications with HF. The HF version is for applications where traces of hydrofluoric acid (2% or less) will attack standard pH glass in levels of pH 6 and below.

The quick temperature response is available in a PT1000 temperature sensor and allows compatibility with the Signet 8900 and 9900 instruments.

The 2734-2736 electrodes are ideal for a wide range of harsh applications. The sensors incorporate 3/4 inch NPT or ISO 7/1-R 3/4 threads for installing into standard pipe-tees. They can also be mounted directly into Signet standard fittings, DN15 to DN100 (1/2 to 4 inch).

Features:

- Patented reference design for exceptional performance
- Mounts in Signet standard fittings from DN15 to DN100 (1/2 to 4 in.)
- 3/4" NPT or ISO 7/1-R 3/4 threaded sensors for use with reducing tees DN15 to DN100 (1/2 to 4 in.)
- Special design allows for installation at any angle, even inverted or horizontal
- Ryton® (PPS) body and PTFE junction for broad range of chemical compatibility
- Patented DryLoc® connector with gold plated contacts
- Quick temperature response
- Enhanced Reference and Bridge Gels to resist chemical poisoning and prolong the life of the electrodes
- PTFE Reference Junction resists fouling and chemical attack

Applications:

- Water & Wastewater Treatment
- Neutralization Systems
- Effluent Monitoring
- Sanitization Systems
- Pool & Spa Control
- Aquatic Animal Life Support Systems
- Process Control
- Cooling Towers

5

pH Electrodes - Temperature element PT1000; use with 2750 Sensor Electronics*

Tip Design	Process Connection Thread Options	Mfg Part #	Price $
Flat	3/4 in. NPT, Thread	3-2734-00	540.00
Flat	ISO 7/1-R 3/4 Thread	3-2734-01	540.00
Flat, HF Resistant¹	3/4 in. NPT, Thread	3-2734-HF-00	604.00
Flat, HF Resistant¹	ISO 7/1-R 3/4 Thread	3-2734-HF-01	604.00
Bulb	3/4 in. NPT, Thread	3-2736-00	508.00
Bulb	ISO 7/1-R 3/4 Thread	3-2736-01	508.00
Bulb, HF Resistant¹	3/4 in. NPT, Thread	3-2736-HF-00	604.00
Bulb, HF Resistant¹	ISO 7/1-R 3/4 Thread	3-2736-HF-01	604.00

ORP Electrodes - Compatible with 2750 Sensor Electronics and 2760 Preamplifier

Tip Design	Process Connection Thread Options	Mfg Part #	Price $
Flat, 10K	3/4 in. NPT, Thread	3-2735-60	572.00
Flat, 10K	ISO 7/1-R 3/4 Thread	3-2735-61	572.00

*The 2750 Sensor Electronics has a digital (S^3L) output which is used with 8900 or 9900 instruments, and Profibus Concentrator. It also has a 4 to 20 mA output for connections to PLC's, data recorders, etc.
¹HF resistant ≤2% HF

All prices subject to change without notice.

GF Signet 2764 - 2767 Differential DryLoc® pH/ORP Electrodes



Flat Glass



Protected Bulb

The Signet 2764-2767 Differential pH & ORP electrodes are built with the DryLoc® connector, a Ryton® body, and PTFE reference junction to handle the most extreme and harshest of chemical applications.

These differential electrodes use a field-proven 3-electrode differential technique: the pH and reference electrodes are measured against a ground electrode, insuring a steady and stable signal. A key feature is the reference electrode, which is housed in a glass half-cell embedded in the reference chamber and is protected from compounds that may contain sulfides (S^{2-}) and metals. To ensure long service life, the reference features a refillable electrolyte chamber and a replaceable equi-transferrant salt bridge, both easily serviced in the field. The patented porous PTFE reference junction resists fouling, clogging and chemical attack.

Other elements of the design are the solution ground, the pH/ORP electrodes, and the temperature element. The solution ground eliminates noisy measurements by draining electrical current away from the reference electrode. The pH/ORP electrodes are designed with a flat or bulb surface, and a temperature device positioned at the tip of the measurement surface for a quick temperature response. Various temperature devices offered include 3 KΩ, 300 Ω, or PT1000 RTD.

The electrodes are used with the Signet 2750 Sensor Electronics, which provide a blind 4 to 20 mA output or use the digital (S^3L) output to connect the Signet 8900 or 9900 instruments. The electrodes can also be used with the Model 2760 preamplifier to connect to the Signet 8750.

5

Features:

- Differential design for stable measurements in the most aggressive applications
- Long service life even in severe or difficult chemical applications
- Water-tight DryLoc® connector with foul-proof gold contacts
- Porous PTFE reference junction
- Rebuildable reference electrode
- Solution ground
- Temperature sensor (pH)
- Easy sensor replacement using DryLoc® electrode connector
- Quick temperature response
- Compatible with all Signet instruments and other suppliers' pH/ORP instruments

Applications:

- Water and Wastewater Treatment
- Coagulation and Flocculation
- Plant Effluent
- Plating Baths
- Scrubbers
- Textile Dye Process
- Harsh Chemical Applications
- Heavy Metal Removal and Recovery
- Toxics Destruction
- Surface Finishing

pH Differential Electrode

Tip Design	Temperature Element	Mfg Part #	Price $
Flat	3 KΩ Balco[1, 2]	3-2764-1	684.00
Flat	PT1000[1]	3-2764-2	603.00
Flat	300 Ω Balco[3]	3-2764-3	552.00
Bulb with Protection	3 KΩ Balco[1, 2]	3-2766-1	646.00
Bulb with Protection	PT1000 RTD[1]	3-2766-2	570.00
Bulb with Protection	300 Ω Balco[3]	3-2766-3	521.00

ORP Differential Electrode

Tip Design	Temperature Element	Mfg Part #	Price $
Flat	10 KΩ ID[1, 2]	3-2765-1	633.00
Flat	PT1000[3]	3-2765-2	848.00
Flat	300 Ω Balco[3]	3-2765-3	594.00
Bulb with Protection	10 KΩ ID[1, 2]	3-2767-1	600.00
Bulb with Protection	PT1000[3]	3-2767-2	802.00
Bulb with Protection	300 Ω Balco[3]	3-2767-3	563.00

[1] For use with the Multi-Parameter instruments when used with the 2750 sensor electronics. The 2750 sensor electronics has a digital (S^3L) output which is used with the Multi-Parameter instruments. It also has a 4 to 20 mA output for connections to PLC's, data recorders, etc.

[2] The 2760 preamplifier is used for connection directly to 8750 transmitter.

[3] Use with third party controls or amplifiers, requires the 2760 preamplifier or connector.

SIGNET Electrodes

GF Signet 2774 - 2777 DryLoc® pH/ORP Electrodes



Flat Glass Protected Bulb

The Signet 2774-2777 pH and ORP Electrodes feature a unique foul-proof DryLoc® connector with gold-plated contacts designed specifically for use with the Signet 2750 and 2760 preamplifiers, sensor electronics, and connectors. These dependable and highly responsive electrodes feature a PTFE double reference junction with KNO3 in the front chamber to block various poisoning ions such as Copper (CU^{++}), Lead (Pb^{++}), Mercury (Hg^{++}), and a large reference chamber that combine to extend the service-life.

Embedded positioning of the temperature element in the pH sensing tip allows the temperature response to be quick and accurate. The electrodes are offered with either flat or bulb style sensing elements. The flat versions allow sediment and particles to sweep past the measurement surface, minimizing risks of abrasion, breakage and coating. The bulb versions can be used for general-purpose applications. Due to the specially designed chambers which keep electrolyte in place, all versions can be installed at any angle, even inverted.

Features:
- Patented DryLoc® connector with gold plated contacts
- Special design allows for installation at any angle, even inverted or horizontal
- Quick temperature response
- Easy sensor replacement using DryLoc® electrode connector
- High temperature versions available
- Mounts into standard 3/4 inch threads
- Compatible with all Signet instruments and other suppliers' pH/ORP instruments

Applications:
- Water Treatment & Water Quality Monitoring
- Cooling Tower and Boiler Protection
- Aquatic Animal Life Support Systems
- Pool and Spa Control
- Neutralization Systems

pH Electrode

Tip Design	Temperature Element	Mfg Part #	Price $
Flat	3K Ω RTD*	3-2774	586.00
Bulb with Protection	3K Ω RTD*	3-2776	528.00
Flat	PT1000 RTD**	3-2774-1	505.00
Bulb with Protection	PT1000 RTD**	3-2776-1	454.00

ORP Electrode

Tip Design	Temperature Element	Mfg Part #	Price $
Flat	10 K ID resistor[1]	3-2775	529.00
Bulb with Protection	10 K ID resistor[1]	3-2777	478.00
Flat	No T.C[2]	3-2775-1	694.00
Bulb with Protection	No T.C[2]	3-2777-1	627.00

*3K Ohm RTD for connection to 8750 instrument when used with the 2760 preamplifier. The 2760 preamplifier is used for connection directly to the Signet 8750 transmitter.
**PT1000 RTD for connection to the 8900 or 9900 when used with the 2750 sensor electronics. The 2750 sensor electronics has a digital (S^3L) output which is used with the 8900 Controller. It also has a 4 to 20 mA output for connections to PLC's, data recorders, etc.
[1]10 K ID resistor for connection to the 8750 when used with the 2760 preamplifier or the 8900 when used with the 2750 sensor electronics
[2]for use with other suppliers instruments when used with the 2760 connector

GF Signet 3719 pH/ORP Wet-Tap Assembly / 2756 - 2757 Wet-Tap Electrodes



3719 Assembly 2756 & 2757 Wet-Tap

The Signet 3719 pH/ORP Wet-Tap allows installation and removal of pH or ORP electrodes, even under process pressure, without the need for process shutdown during routine electrode maintenance and calibration. Automatic process isolation is achieved during electrode retraction with a double O-ring seal on a unique and compact retraction assembly; no separate valve is required.

A patented cam-activated automatic locking mechanism, SafeLoc™, and the short stroke design help to assure operator safety. The wet-tap unit can be mounted at any angle and can be used with the Signet DryLoc® Wet-Tap electrodes.

Features:
- Electrode removal without process shutdown
- Space saving 45 mm (1.75 in.) short-stroke design
- Sealed pneumatic dampening for smooth and safe operation
- SafeLoc™: Cam-activated automatic locking mechanism
- Protects electrode sensing surface from breakage
- Suitable for mounting in any orientation
- Process threaded connection NPT or ISO

Applications:
- Aquatic Animal Life Support Systems
- Recreational Water Monitoring
- Water & Wastewater Treatment
- Effluent Monitoring
- Neutralization Systems
- Sanitization Systems
- Pool and Spa Control

Wet-Tap Assembly

Pipe Size (in.)	Process Thread Connection	Mfg Part #	Price $
2 1/2 - 4	1 1/2 inch NPT	3-3719-11	1048.00
2 1/2 - 4	ISO 7/1-R 1.5	3-3719-12	1048.00
6 - 12	2 inch NPT	3-3719-21	1098.00
6 - 12	ISO 7/1-R 2	3-3719-22	1098.00

DryLoc® pH Electrodes

Electrode Material	Temperature Element	Use With	Mfg Part #	Price $
Glass	PT1000	2750 Sensor Electronics*	3-2756-WT	412.00
Glass	3 KΩ Balco	2760 Preamplifier**	3-2756-WT-1	479.00
Plastic	PT1000	2750 Sensor Electronics*	3-2756-WTP	424.00
Plastic	3 KΩ Balco	2760 Preamplifier**	3-2756-WTP-1	493.00

DryLoc® ORP Electrodes

Electrode Material	Temperature Element	Use With	Mfg Part #	Price $
Glass	N/A	2750 Sensor Electronics* or 2760 Preamplifier**	3-2757-WT	461.00
Plastic	N/A	2750 Sensor Electronics* or 2760 Preamplifier**	3-2757-WTP	475.00

*The 2750 sensor electronics has a digital (S^3L) output which is used with the 8900 or 9900 instruments. It also has a 4 to 20 mA output for connections to PLC's, data recorders, etc.
**The 2760 preamplifier is used for connection directly to the Signet 8750 Transmitter and other analog transmitters.

SIGNET Electrodes

GF Signet Conductivity/Resistivity Electrode Specifications


2818


2819


2820


2821


2822


2823


2839


2840


2841


2842

	2818	2819	2820	2821	2822	2823	2839	2840	2841	2842
Cell Constant	0.01	0.01	0.1	1.0	10.0	20.0	0.01	0.1	1.0	10.0
Operating Range	0.055 µS to 100 µS (18.2 MΩ to 10 KΩ)	0.055 µS to 100 µS (18.2 MΩ to 10 KΩ)	1 µS to 1000 µS (1 MΩ to 1 KΩ)	10 µS to 10,000 µS	100 µS to 200,000 µS	200 µS to 400,000 µS	0.055 µS to 100 µS (18.2 MW to 10 KW)	1 µS to 1000 µS	10 µS to 10,000 µS	100 µS to 200,000 µS
Compatible Sensor Electronics	2850	2850	2850	2850	2850	2850	2850	2850	2850	2850
Temperature Element	PT1000	PT1000	PT1000	PT1000	PT1000	PT1000	PT1000	PT1000	PT1000	PT1000
Operating Temperature/ Pressure	13.8 bar (200 psi) max., 120 °C (248 °F) max. (with optional 316 SS fitting)				6.9 bar (100 psi) @ 95 °C (203 °F)	6.9 bar (100 psi) @ 150 °C (302 °F)	-10 °C to 85 °C @ 6.9 bar (14 °F to 185 °F @ 100 psi)			
Process Connection	3/4 in. NPT	3/4 in. NPT	3/4 in. NPT	3/4 in. NPT	3/4 in. NPT	3/4 in. NPT or ISO 7/1-R 3/4	3/4 in. NPT or ISO 7/1-R 3/4	3/4 in. NPT or ISO 7/1-R 3/4	3/4 in. NPT or ISO 7/1-R 3/4	3/4 in. NPT or ISO 7/1-R 3/4
Wetted Materials										
Body	316 SS or Titanium, PTFE	316 SS or Titanium, PTFE	316 SS or Titanium, PTFE	316 SS or Titanium, PTFE	CPVC	316 SS/PEEK®	316 SS/PEEK®	316 SS/PEEK®	316 SS/PEEK®	316 SS/PEEK®
O-rings	EPR (EPDM)	EPR (EPDM)	EPR (EPDM)	EPR (EPDM)	EPR (EPDM)	EPR (EPDM)	FPM (2841 & 2842 only)	FPM (2841 & 2842 only)	FPM (2841 & 2842 only)	FPM (2841 & 2842 only)
Process Connection	Poly Pro (standard) , Stainless steel NPT, or Sanitary Tri-Clamp				316 SS	316 SS	PEEK®	PEEK®	PEEK®	PEEK®
Compatible Signet Instruments	8850, 8860 Direct connection, 8900 via 2850, 9900 direct using conductivity module or 2850					8850, 8860, 8900, 9900				
Applications Usage	R.O., ultrapure water, resistivity measurements	R.O., ultrapure water, resistivity measurements	R.O., deionized and distilled water	R.O., distilled and drinking water, cooling tower water	R.O., cooling tower water, waste water, salinity, brackish water, sea water	R.O., salinity, brackish water, sea water, acids/ bases, cleaners other concentrated chemicals	R.O., ultrapure water, resistivity measurements	R.O., deionized and distilled water	R.O., distilled water, condensate, drinking water, cooling tower water	R.O., cooling tower water, wastewater, salinity, brackish water, sea water
Standards and Approvals	RoHS compliant, China RoHS									

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GF Signet 2818 - 2823 Conductivity/Resistivity Electrodes



2818 2819 2820 2821

In-line only.



2822 2823

Reversible threads for in-line or submersible installation.



Sanitary

Sanitary tri-clamp flange version.

Signet 2818-2823 Conductivity/Resistivity Electrodes are designed to provide versatile installation and accurate sensing across a very broad dynamic range. These electrodes are built with a controlled surface finish to ensure accuracy and repeatability. The standard electrode is constructed 316 SS or Titanium, but there are other materials available for maximum chemical compatibility.

Reversible threads or sanitary flanges allow for maximum installation versatility. Sanitary flange versions are available with surface quality finish of less than RA 25 and with an optional NIST Traceability Certificate to meet USP requirements. Coupled with Signet patented measuring circuitry, a three decade measurement range is achieved without the need for troublesome electrode platinization. A platinum RTD (PT1000) located within the electrode allows optimal temperature sensing.

Features:

- Standard process connections
  - 3/4 in. NPT Polypro
  - 3/4 in. NPT SS on 10 and 20 cell
  - Tri-clamp 1 in. -1 1/2 in., 2 in.
  - Opt. 1/2 in. NPT 316 SS
- 316 SS or Titanium standard electrode
- Alternative electrode materials available
  - Hastelloy-C
  - Monel
  - Titanium
- In-line or submersible mounting
- NIST traceable certified cells ±1% meet USP requirements

Applications:

- Pure Water Treatment
  - Reverse Osmosis
  - Deionization
  - Distillation
- Boiler Condensate
- Semiconductor Water Production
- Rinse Water Monitoring and Control
- TDS (Total Dissolved Solids)
- Salinity
- USP Purified Water
- WFI Water Production
- Ultra Pure Water

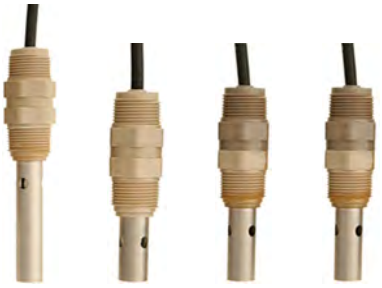
2818 - 2823 Conductivity/Resistivity Electrodes

Cell Constant	Sensor Material and Mounting	Insertion into Tee Size	Mfg Part #	ALSCO #	Price $
0.01 cm-1	316 SS electrode, 3/4 in.	In-line only	3-2818-1**	3-2818-1**	500.00
0.01 cm-1	316 SS electrode, 3/4 in. threads	In-line only	3-2819-1	9209	439.00
0.01 cm-1	316 SS electrode, 3/4 in. threads (certified)	In-line only	3-2819-1C	3-2819-1C	509.00
0.01 cm-1	316 SS electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2819-S1	3-2819-S1	925.00
0.01 cm-1	316 SS electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2819-S1C†*	3-2819-S1C†*	1008.00
0.01 cm-1	316 SS electrode, Sanitary Tri-clamp flange	2 in.	3-2819-S2†	3-2819-S2†	1092.00
0.01 cm-1	316 SS electrode, Sanitary Tri-clamp flange	2 in.	3-2819-S2C†*	3-2819-S2C†*	1160.00
0.01 cm-1	Titanium electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2819-T1†	3-2819-T1†	1293.00
0.01 cm-1	Titanium electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2819-T1C†*	3-2819-T1C†*	1362.00
0.01 cm-1	Titanium electrode, Sanitary Tri-clamp flange	2 in.	3-2819-T2†	3-2819-T2†	1463.00
0.01 cm-1	Titanium electrode, Sanitary Tri-clamp flange	2 in.	3-2819-T2C†*	3-2819-T2C†*	1530.00
0.1 cm-1	316 SS electrode, 3/4 in. threads	In-line only	3-2820-1	9200	437.00
0.1 cm-1	316 SS electrode, 3/4 in. threads (certified)	In-line only	3-2820-1C	3-2820-1C	515.00
0.1 cm-1	316 SS electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2820-S1	3-2820-S1	879.00
0.1 cm-1	316 SS electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2820-S1C†*	3-2820-S1C†*	960.00
0.1 cm-1	316 SS electrode, Sanitary Tri-clamp flange	2 in.	3-2820-S2†	3-2820-S2†	1040.00
0.1 cm-1	316 SS electrode, Sanitary Tri-clamp flange	2 in.	3-2820-S2C†*	3-2820-S2C†*	1104.00
0.1 cm-1	Titanium electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2820-T1†	3-2820-T1†	1230.00
0.1 cm-1	Titanium electrode, Sanitary Tri-clamp flange	2 in.	3-2820-T2†	3-2820-T2†	1393.00
1.0 cm-1	316 SS electrode, 3/4 in. threads	In-line only	3-2821-1	9202	437.00
1.0 cm-1	316 SS electrode, 3/4 in. threads (certified)	In-line only	3-2821-1C	3-2821-1C	515.00
1.0 cm-1	316 SS electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2821-S1†	3-2821-S1†	879.00
1.0 cm-1	316 SS electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2821-S1C†*	3-2821-S1C†*	960.00
1.0 cm-1	316 SS electrode, Sanitary Tri-clamp flange	2 in.	3-2821-S2†	3-2821-S2†	1040.00
1.0 cm-1	316 SS electrode, Sanitary Tri-clamp flange	2 in.	3-2821-S2C†*	3-2821-S2C†*	1104.00
1.0 cm-1	Titanium electrode, Sanitary Tri-clamp flange	1 to 1 1/2 in.	3-2821-T1†	3-2821-T1†	1230.00
1.0 cm-1	Titanium electrode, Sanitary Tri-clamp flange	2 in.	3-2821-T2†	3-2821-T2†	1393.00
10 cm-1	316 SS electrode with 3/4 in. threads	in-line or submersible mounting only	3-2822-1	9205	730.00
20 cm-1	316 SS electrode, 3/4 in. reversible threads	in-line or submersible mounting only	3-2823-1	9207	878.00

†Available for 0.01 cm-1, 0.1 cm-1, and 1.0 cm-1 cells only
*NIST Certified
**NIST certificate available.

SIGNET Electrodes

GF Signet 2839 - 2842 Conductivity Electrodes



2839 2840 2841 2842

The Signet 2839-2842 Conductivity/Resistivity Electrodes are available in four cell constants from 0.01 to 10.0 cm-1, and are suitable for a wide variety of applications from high purity water quality monitoring to weak acids and bases. 316 SS electrode surface finishes are controlled in a precision bead blasting operation to ensure measurement accuracy and repeatability.

The PEEK® insulator and process connections are injection over-molded to minimize variance between electrodes. Double threaded connections in either 3/4 in. NPT or ISO 7/1-R 3/4 enable quick and easy installation in submersible or in-line configurations. Transmitter integral mounting kit and junction boxes are available as accessories.

A Certificate of Calibration is included with all 2839-2842 Conductivity Electrodes. The electrodes are calibrated to meet 1% accuracy. Electrodes can be shipped back to the GF Signet Factory for recertification.

2839 - 2842 Conductivity Electrodes

Cell Constant	Thread Size	Mfg Part #	Price $
0.01 cm-1	3/4 inch NPT	3-2839-1V	376.00
0.01 cm-1	ISO 7/1-R 3/4	3-2839-1VD	376.00
0.01 cm-1	3/4 inch NPT	3-2840-1V	376.00
0.01 cm-1	ISO 7/1-R 3/4	3-2840-1VD	376.00
1.0 cm-1	3/4 inch NPT	3-2841-1V	479.00
1.0 cm-1	ISO 7/1-R 3/4	3-2841-1VD	479.00
10 cm-1	3/4 inch NPT	3-2842-1V	531.00
10 cm-1	ISO 7/1-R 3/4	3-2842-1VD	531.00

Features:
- ± 1% accuracy - Custom calibration certificate provided
- Dual-threaded
- Cable length 4.6 m (15 ft)
- Compact electrode length for easy in-line installation in small pipe sizes
- Triple orifice flow-through design reduces clogging and bubble entrapment
- 316 SS electrodes with injection molded PEEK® process connections and insulators
- Meets USP requirements

Applications:
- Water Treatment & Water Quality Monitoring
- Reverse Osmosis
- Deionization
- Cooling Tower and Boiler Protection
- Distillation
- Desalination
- Demineralizer
- Semiconductor
- Aquatic Animal Life Support Systems

GF Signet 2630 Amperometric Chlorine Electrode



2630

The Signet 2630 Amperometric Chlorine electrode is designed to measure free chlorine in fresh water treatment applications. The electrode is available with a measurement range of 0.02 to 2 ppm, 0.05 to 5 ppm or 0.1 to 20 ppm. This electrode requires the Signet 2650 Amperometric Electronics module to communicate with the Signet 8630-3P Chlorine Transmitter.

Utilizing smart-sensor technology, this electrode has a unique embedded memory chip and can communicate a wide variety of information to the Signet 2650 electronics and Signet 8630-3P Transmitter.

Displayed information includes electrode type, factory calibration data, service time, chlorine range, high and low pH (with optional Signet pH electrode), temperature values and more.

Signet's patented DryLoc® connector provides quick assembly and a secure connection. Gold-plated contacts and an O-ring seal ensure a waterproof and reliable interconnect to the Signet 2650 Amperometric Electronics.

The Signet 2630 Amperometric Chlorine Electrode has an integrated temperature element for automatic temperature compensation.

2630 Amperometric Chlorine Electrode

Description	Mfg Part #	Price $
Free Chlorine electrode, 0 to 2 ppm (mg/l)	3-2630-1	941.00
Free Chlorine electrode, 0 to 5 ppm (mg/l)	3-2630-2	941.00
Free Chlorine electrode, 0 to 20 ppm (mg/l)	3-2630-3	941.00

Features:
- Embedded memory chip accessible via the Signet 8630 transmitter
- Quick assembly with Signet's patented DryLoc® connector
- Integrated temperature element for automatic temperature compensation
- Separate drive electronics (Signet 2650), for easy electrode replacement without running new cable

Applications:
- Water Distribution
- Ground Water
- Surface Water
- HVAC Applications (cooling water)
- Boiler Feed Water
- Gray Water Dechlorination
- Food and Beverage
- RO Membrane Protection
- Swimming Pools
- Aquariums
- Water Parks

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SIGNET Sensor Electronics

GF Signet 2850 Conductivity/Resistivity Sensor Electronics



Universal Mount



Threaded J-Box



2850 Integral Conductivity System for in-line installations

The Signet 2850 Conductivity/Resistivity Sensor Electronics are available in various configurations for maximum installation flexibility. The universal mount version is for pipe, wall, or tank mounting and enables single or dual (digital versions only) inputs using any standard Signet conductivity / resistivity sensor. The threaded j-box version can be used with these same Signet sensors for submersible sensor mounting. It is also available as a combined integral system configuration for in-line mounting and includes a conductivity electrode in a choice of 0.01, 0.1, 1.0 or 10.0 cell constants. The 2850 is ideal for applications with a conductivity range of 0.055 to 400,000 µS or a resistivity range of 18.2 MΩ to 10 kΩ.

All 2850 units are available with a choice of a single or dual digital (S³L) outputs, or a single 4 to 20 mA. The single digital (S³L) output version can be paired with the 9900 Transmitter to extend the distance between the measuring points to 120 m (400 ft).

The 8900 Multi-Parameter Controller allows for up to six sensor inputs directly into the Signet 8900 Multi-Parameter Controller. All 2850 units are built with NEMA 4X/IP65 enclosures which allow output wiring connections with long cable runs of up to 305 m (1,000 ft).

The two-wire 4 to 20 mA output version is available with eight 4 to 20 mA output ranges for each electrode cell constant. Each range can be inverted and is field selectable.

EasyCal is a standard feature that automatically recognizes conductivity test solution values for simple field calibration. A certification tool is available for validation of the sensor electronics according to USP requirements.

Features:

- Certificate of calibration supplied with all sensors
- Custom cell constant programmed into the electronics
- Integral mount systems for quick and easy installation
- Compact design for maximum installation flexibility
- Extends the distance between the measuring point and the 9900 Transmitter to 120 m (400 ft)
- Digital (S³L) interface or two-wire 4 to 20 mA output
- EasyCal with automatic test solution recognition
- Dual channel unit available for low cost installation with Signet 8900 Multi-Parameter Controller
- For use with ALL Signet conductivity electrodes

Applications:

- Water Treatment & Water Quality Monitoring
- Reverse Osmosis
- Deionization
- Demineralizer, Regeneration & Rinse
- Scrubber, Cooling tower and Boiler Protection
- Aquatic Animal Life Support Systems

2850 Integral Mount Systems

Digital (S³L) output with EasyCal

Sensor	Process Threaded Connection	Mfg Part #	Price $
2839 Electrode, 0.01 cell	NPT threads	3-2850-51-39V	797.00
2840 Electrode, 0.1 cell	NPT threads	3-2850-51-40V	797.00
2841 Electrode, 1.0 cell	NPT threads	3-2850-51-41V	797.00
2842 Electrode, 10.0 cell	NPT threads	3-2850-51-42V	939.00
2839 Electrode, 0.01 cell	ISO threads	3-2850-51-39VD	797.00
2840 Electrode, 0.1 cell	ISO threads	3-2850-51-40VD	797.00
2841 Electrode, 1.0 cell	ISO threads	3-2850-51-41VD	797.00
2842 Electrode, 10.0 cell	ISO threads	3-2850-51-42VD	939.00

4 to 20 mA output with EasyCal

Sensor	Process Threaded Connection	Mfg Part #	Price $
2839 Electrode, 0.01 cell	NPT threads	3-2850-52-39V	964.00
2840 Electrode, 0.1 cell	NPT threads	3-2850-52-40V	964.00
2841 Electrode, 1.0 cell	NPT threads	3-2850-52-41V	964.00
2842 Electrode, 10.0 cell	NPT threads	3-2850-52-42V	1109.00
2839 Electrode, 0.01 cell	ISO threads	3-2850-52-39VD	964.00
2840 Electrode, 0.1 cell	ISO threads	3-2850-52-40VD	964.00
2841 Electrode, 1.0 cell	ISO threads	3-2850-52-41VD	964.00
2842 Electrode, 10.0 cell	ISO threads	3-2850-52-42VD	1109.00

2850 Sensor Electronics with EasyCal

NPT mount junction box (3/4 inch threaded) for standpipe or integral mounting, single input only

Output	Mfg Part #	ALSCO #	Price $
One input/one digital (S³L) output	3-2850-51	9296	422.00
One input/one 4 to 20 mA output	3-2850-52	9297	588.00

Universal mount junction box for remote mount, single or dual input

Output	Mfg Part #	ALSCO #	Price $
One input/one digital (S³L) output for use with 8900 or 9900	3-2850-61	9298	422.00
One input/one 4 to 20 mA output	3-2850-62	9299	588.00
Dual input, dual (S³L) output for use with 8900 only	3-2850-63	3-2850-63	721.00

SIGNET Sensor Electronics

GF Signet 2760 DryLoc® pH/ORP Preamplifiers & Connectors




In-Line 2760 **Submersible 2760**

Submersible pH/ORP Preamplifier (Gray Body) for use with the 8750 instrument

Description	Mfg Part #	Price $
3/4 in. NPT threads and 4.6 m (15 ft) cable	3-2760-1	350.00
3/4 in. ISO threads and 4.6 m (15 ft) cable	3-2760-2	350.00

In-line pH/ORP Preamplifier (Yellow Body); use with Signet fittings or wet-tap sensors and other manufacturers instruments

Description	Mfg Part #	Price $
3/4 in. NPT threads and 4.6 m (15 ft) cable	3-2760-11	350.00
3/4 in. ISO threads and 4.6 m (15 ft) cable	3-2760-21	350.00

Submersible Connector (Gray Body) for use with other manufacturer's instruments

Description	Mfg Part #	Price $
4.6 m (15 ft) cable and 3/4 in. NPT threads	3-2760-3	346.00
4.6 m (15 ft) cable and ISO 7/1R 3/4 threads	3-2760-4	346.00

In-line pH/ORP Connector (Yellow Body); use with Signet fittings or wet-tap sensors and other manufacturers instruments

Description	Mfg Part #	Price $
4.6 m (15 ft) cable and 3/4 in. NPT threads	3-2760-31	238.00
4.6 m (15 ft) cable and ISO 7/1R 3/4 threads	3-2760-41	238.00

The Signet 2760 pH/ORP Preamplifiers features the DryLoc® connector, providing a robust connection to Signet DryLoc electrodes.

The 2760 preamplifier allows any DryLoc pH/ORP electrode to work with Signet ProcessPro® and ProPoint® pH/ORP instruments. It is also sold as a simple connector for use with other manufacturers' instruments that do not require a preamplified signal.

The DryLoc electrode connector system quickly forms a robust assembly for submersible and in-line installations. Optional NEMA 4X junction enclosures extend the preamplifier cable to long distances.

The 2760 submersible preamplifier can also be used as an In-line preamplifier when used with the 3/4 in. or 1 in. threaded sensors including the 2724, 2774 and 2764 series electrodes. The 2760 In-line preamplifier can be used with Signet fittings up to DN100 (4 in.) and wet-tap assemblies.

The 2760 pH/ORP Preamplifiers are compatible with the Signet 5700, 8750 and older analog transmitters. The 8900 and 9900 Transmitters require the use of the 2750 sensor electronics, and are not compatible with the 2760 preamplifier.

Features:
- In-line integral mount and submersible installation versions
- Compatible with pH or ORP sensors
- Patented DryLoc® connector provides a quick and secure connection to the sensor

Applications:
- Water/Wastewater Treatment
- Neutralization Systems
- Scrubber Control
- Effluent Monitoring
- Surface Finishing
- Flocculent Coagulation
- Heavy Metal Removal and Recovery
- Toxics Destruction
- Sanitization Systems
- Pool & Spa Control
- Aquatic Animal Life Support Systems

Signet 2751 DryLoc® pH/ORP Smart Sensor Electronics





In-Line 2751-1 **In-line EasyCal 2751-2** **Submersible 2751-3 or 2751-4**

Smart Sensor Electronics

Description	Mfg Part #	Price $
with 15 ft cable, recommended for 9900 or 9950 instruments	3-2751-1	500.00
with junction box and EasyCal, recommended for 4 to 20 mA use	3-2751-2	557.00
with 15 ft cable and 3/4 in. NPT threads - when 4 to 20 mA is required use the 3-8050-2 junction box with EasyCal	3-2751-3	485.00
with 15 ft cable and ISO 7/1-R 3/4 threads - when 4 to 20 mA is required use the 3-8050-2 junction box with EasyCal	3-2751-4	485.00

Sensor Electronics with preamplified signal and Digital (S3L) output (for use with the SmartPro Instruments) or 4 to 20 mA output - power supplied to unit dictates output type.

The Signet 2751 pH/ORP Smart Sensor Electronics featuring the DryLoc® connector, is the solution for field-free calibration, out of range glass impedance and broken glass detection, alerting the operator to probe failure or maintenance needs.

The 2751 features two different outputs: a two-wire 4 to 20 mA loop output with optional EasyCal function or a digital (S3L) output which allows for longer cable lengths and is compatible with all Signet 8900, 9900 and 9950 instruments or in blind, 4 to 20 mA.

The Smart Sensor Electronics will allow for calibration of electrodes in a laboratory setting and installation of precalibrated probes in the field, reducing system downtime. Memory chip enabled electrodes will store operational data such as minimum and maximum pH/mV readings, runtime, minimum and maximum temperature (pH only), for troubleshooting and operational evaluation. To take full advantage of all features and benefits of the 2751, use with Signet 9900 (Generation IV or later), 9950 (Generation II or later) or 0486 Profibus Concentrator.

Features:
- Probe health monitoring, glass impedance and broken glass detection
- Memory chip interface that allows for transferable calibration, runtime data, and manufacturing information
- In-line integral mount and submersible installation versions
- Automatic temperature compensation
- Auto configuration for pH or ORP operation
- Optional EasyCal calibration aid with automatic pH buffer recognition for 4, 7 and 10 pH and ORP solutions: quinhydrone saturated pH 4 or 7 buffers and Light's Solution +469 mV
- Junction boxes for convenient wiring
- Patented DryLoc® connector provides a quick and secure connection to the sensor

Applications:
- Water and Wastewater Treatment
- Neutralization Systems
- Scrubber Control
- Effluent Monitoring
- Surface Finishing
- Flocculent Coagulation
- Heavy Metal Removal and Recovery
- Toxics Destruction
- Sanitization Systems
- Aquatic Animal Life Support Systems
- Pool and Spa Control

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SIGNET Sensor Electronics

GF Signet 2650 DryLoc® Amperometric Electronics



2650

The Signet 2650 Amperometric Electronics provide the polarization voltage and signal conditioning required by all Signet Amperometric Sensors. The 2650 Amperometric Electronics also relays important sensor information that is stored on a memory chip inside the sensor to be displayed on the 3-8630-3P transmitter. Information includes factory calibration data, service life, calibration information and more.

Signet's patented DryLoc® connector provides a quick and secure connection to the sensor. Gold-plated contacts and an O-ring seal ensure a waterproof and reliable interconnect to the sensor.

Sensor maintenance, replacement and troubleshooting has never been easier. The DryLoc electronics can be separated from the sensor, which allows the user to detect a faulty sensor, electronics or cable assembly.

2650 DryLoc® Amperometric Electronics

Description	Mfg Part #	Price $
Amperometric in-line sensor electronics, Digital (S³L), 4.6 m (15 ft) cable	3-2650-7	615.00

Features:
- Conditions the signal from the 2630 sensor and provides sensor stored data to the Chlorine transmitter
- Patented DryLoc® connector provides a quick and secure connection to the sensor
- Waterproof and reliable interconnect to the sensor
- Easy sensor replacement without running new cable
- Easy sensor removal for servicing

Applications:
- Water Distribution
- Ground Water
- Surface Water
- HVAC Applications (cooling water)
- Gray Water Dechlorination
- Food and Beverage
- RO Membrane Protection
- Swimming Pools
- Aquariums
- Water Parks

5

GF Signet 2450 Pressure Sensors



The 2450 Pressure Sensor has a one-piece injection molded PVDF body and ceramic diaphragm for superior compatibility in corrosive liquids. Three pressure versions allow for optimal resolution matched to your sensing needs. Solid state circuitry eliminates drift (no internal potentiometers).

These sensors are available with a proprietary digital (S³L) output, or field-scaleable 4 to 20 mA output. Dual threaded ends allow in-line installation with conduit connection, or add the integral adapters to create a compact assembly with a field mount version of the Signet 8450 Pressure Transmitter or 9900 transmitter.

2450 Pressure Sensors with 4.6 m (15 ft) Cable

Operating Pressure	Output	Mfg Part #	Price $
0 - 10 psi	Digital (S³L)	3-2450-3U	588.00
0 - 10 psi	Current (4 to 20 mA)	3-2450-7U	714.00
0 - 50 psi	Digital (S³L)	3-2450-3L	588.00
0 - 50 psi	Current (4 to 20 mA)	3-2450-7L	714.00
0 - 250 psi	Digital (S³L)	3-2450-3H	588.00
0 - 250 psi	Current (4 to 20 mA)	3-2450-7H	714.00

Blind Transmitter or Digital (S³L) Sensor
1/2 in. male union mount

Features:
- Test certificate included
- 4 to 20 mA or digital (S³L) output
- 1/2 in. male union process connection
- One-piece injection molded PVDF body
- Flush ceramic diaphragm
- Easy installation
- Choice of three pressure ranges
- Pressure or level measurement

Applications:
- Level or Depth Sensing
- HVAC
- Scrubber Systems
- Pump Protection
- Water Management
- Irrigation Systems
- Wastewater
- Chemical Processing
- Pressure Regulation/Monitoring

All prices subject to change without notice.

SIGNET Sensor Electronics

GF Signet 2350 Temperature Sensor



The Signet 2350 Temperature Sensor has a one piece injection molded PVDF body that is ideal for use in high purity applications. It also outlasts metal sensors in aggressive liquids and eliminates the need for costly custom thermowells. These sensors are available with a proprietary digital (S^3L) output or field-scaleable 4 to 20 mA output.

Dual threaded ends (3/4 in. NPT) allow submersion in process vessels, or in-line installation with conduit connection. An integral adapter kit (sold separately) may be used to create a compact assembly with field mount versions of the Signet 8350 Temperature Transmitter or 9900 Transmitter.

2350 Temperature Sensor

Output & Cable Length	Mfg Part #	ALSCO #	Price $
Digital (S^3L) and 4.6 m (15 ft) cable	3-2350-1	9230	351.00
Current (4 to 20 mA) and 4.6 m (15 ft) cable	3-2350-3	3-2350-3	460.00

Blind Transmitter or Digital (S^3L) Sensor

Features:
- 4 to 20 mA or digital (S^3L) output
- Standard 3/4 in. NPT process connection
- One-piece injection molded PVDF body
- PT1000 platinum RTD in extended tip for quick response
- Easy installation
- Threaded for in-line or submersible installation

Applications:
- Plating Bath Temperature Control
- Heat Exchange Monitor
- R.O. and D.I. System Monitor
- Hot/Cold Mixing System Monitor
- Data Acquisition
- Cooling Loops
- Effluent Monitoring
- HVAC
- Chemical Processing

5

GF Signet 2250 Submersible Hydrostatic Pressure Sensor



The Signet 2250 Hydrostatic Level Sensor for level and depth control has a one-piece injection molded PVDF body and ceramic diaphragm for superior compatibility in corrosive liquids. Utilizing hydrostatic pressure, the 2250 disregards false level signals from steam vapors, foam or any other debris on the liquid surface. Two pressure ranges allow for optimal resolution matched to your sensing needs. Solid state circuitry eliminates drift (no internal potentiometers).

These sensors are available with a proprietary digital (S^3L) output, or 4 to 20 mA output. The extended cable and capillary tubing with the union connection and a customer supplied conduit, allow submersion in process vessels.

Features:
- Level and depth measurement
- 4 to 20 mA or digital (S^3L) output
- Flush ceramic diaphragm
- Easy submersible installation
- Choice of two pressure ranges
- Standard union connection and extended cable and capillary tubing (10 m)

Applications:
- Inventory Management
- Storage Tank Monitoring
- Neutralization Tanks
- Plating Lines
- Waste Sumps
- Clarifiers
- Overflow Protection

Blind Transmitter or Digital (S^3L) Sensor

PVC Union Connection - 3/4 in. Pipe Connection

Sensor Output	Operating Pressure	Mfg Part #	Price $
NPT, digital (S^3L), 35 m (115 ft)	0 - 3.4 bar (0-50 psi)	3-2250-11L	856.00
NPT, digital (S^3L), 7 m (23 ft)	0 - 0.7 bar (0-10 psi)	3-2250-11U	856.00
NPT, current (4 to 20 mA), 35 m (115 ft)	0 - 3.4 bar (0-50 psi)	3-2250-21L	986.00
NPT, current (4 to 20 mA), 7 m (23 ft)	0 - 0.7 bar (0-10 psi)	3-2250-21U	986.00

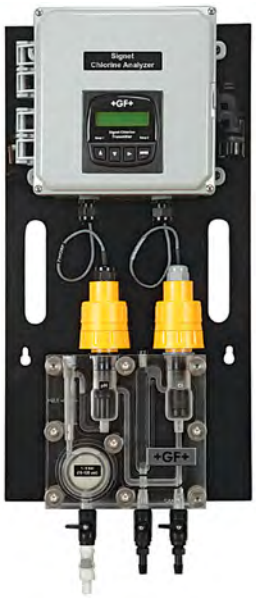
PVC Union Connection - Metric Pipe Connector

Sensor Output	Operating Pressure	Mfg Part #	Price $
ISO, digital (S^3L), 7 m (23 ft)	0 - 0.7 bar (0-10 psi)	3-2250-11U-1	856.00
ISO, digital (S^3L), 35 m (115 ft)	0 - 3.4 bar (0-50 psi)	3-2250-11L-1	856.00
ISO, current (4 to 20 mA), 7 m (23 ft)	0 - 0.7 bar (0-10 psi)	3-2250-21U-1	986.00
ISO, current (4 to 20 mA), 35 m (115 ft)	0 - 3.4 bar (0-50 psi	3-2250-21L-1	986.00

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SIGNET Chlorine Systems

GF Signet 4630 Chlorine Analyzer System



The Signet 4630 Chlorine Analyzer System is an integrated all-in-one system designed to measure free chlorine. The 3-4630 chlorine panel with pH sensor is used to accurately calculate free chlorine in applications that have varying pH values (±0.20 pH units).

In applications where the pH is stable, the pH sensor is not required and the pH value is manually entered into the transmitter to calculate the chlorine levels.

The unique integrated clear flow cell combines sensors, flow regulator, filter and variable area flow indicator in one compact unit. An integrated flow regulator with removable filter accepts inlet pressures of 1 to 8 bar (15 to 120 psi), while maintaining constant flow and minimal pressure to the sensors.

Water flows vertically into sensor tip eliminating bubble entrapment. The flow cell is designed to maintain a minimum amount of water to ensure sensors stay submerged, even when the system and flow is turned off.

The Signet 4630 Chlorine Analyzer System allows quick setup and easy installation and is supplied with a 100-240 VAC power supply, two 4 to 20 mA outputs and two dry contact mechanical relays. The flow cell accommodates two sensor: one chlorine and an optional pH sensor.

Features:
- EPA 334.0 Compliant
- Reagent free measuring
- Complete panel system allows for quick and easy installation
- Built-in flow regulator maintains constant flow and pressure to the sensors regardless of inlet pressure
- Pre-wired panel includes a 100/240 VAC power supply, two 4 to 20 mA outputs and two mechanical relays
- Optional automatic pH compensation (outdoor options available)

Applications:
- Water Distribution
- Ground Water
- Surface Water
- HVAC Applications (cooling water)
- Gray Water Dechlorination
- Food and Beverage
- RO Membrane Protection
- Swimming Pools
- Aquariums
- Water Parks

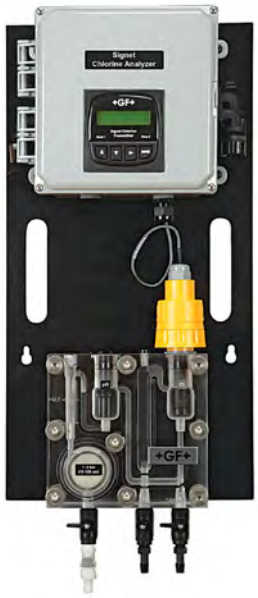
4630 Chlorine Analyzer System / No pH sensor

Description	Mfg Part #	Price $
Chlorine sensor measures 0 to 2 ppm	3-4630-10	3623.00
Chlorine sensor measures 0 to 5 ppm	3-4630-20	3623.00
Chlorine sensor measures 0 to 20 ppm	3-4630-30	3623.00

4630 Chlorine Analyzer System / With pH sensor

Description	Mfg Part #	Price $
Chlorine sensor measures 0 to 2 ppm	3-4630-11	4212.00
Chlorine sensor measures 0 to 5 ppm	3-4630-21	4212.00
Chlorine sensor measures 0 to 20 ppm	3-4630-31	4212.00

GF Signet 4632 Chlorine Dioxide Analyzer System



The Signet 4632 Chlorine Dioxide Analyzer System is an integrated all-in-one system designed to measure Chlorine dioxide residual up to 2 ppm/mg/l.

The unique integrated clear flow cell combines sensors, flow regulator, filter and variable area flow indicator in one compact unit. An integrated flow regulator with removable filter accepts inlet pressures of 1 to 8 bar (15 to 120 psi), while maintaining constant flow and minimal pressure to the sensors.

Water flows vertically into sensor tip eliminating bubble entrapment. The flow cell is designed to maintain a minimum amount of water to ensure sensors stay submerged, even when the system and flow is turned off.

The Signet 4632 Chlorine Dioxide Analyzer System allows quick setup and easy installation and is supplied with a 100-240 VAC power supply, two 4 to 20 mA outputs and two dry contact mechanical relays.

Features:
- Reagent free measuring
- Complete panel system allows for quick and easy installation
- Built-in flow regulator maintains constant flow and pressure to the sensors regardless of inlet pressure
- Pre-wired panel includes a 100/240 VAC power supply, two 4 to 20 mA outputs and two mechanical relays

Applications:
- Cooling Towers
- Fruit and Vegetable Washing
- Water Distribution
- Wastewater Odor Control
- Poultry and Meat Processing
- UPW Treatment
- Hospital and Healthcare Facilities

4632 Chlorine Dioxide Analyzer System

Description	Mfg Part #	Price $
Chlorine Dioxide panel, 0.02 to 2 ppm/mg/l, No pH sensor	3-4632-10	3644.00
Chlorine Dioxide panel, 0.02 to 2 ppm/mg/l, With pH sensor	3-4632-11	4130.00

GF Signet 4150 Turbidimeter



4150 Turbidimeter

Measurement Range and Self Cleaning Options	Mfg Part #	Price $
White Light, 0 to 1000 NTU/FNU, no self cleaning U.S. EPA 180.1	3-4150-1	2276.00
Infrared, 0 to 1000 NTU/FNU, no self cleaning ISO 7027	3-4150-2	2591.00
White Light, 0 to 100 NTU/FNU, with ultrasonic auto self cleaning U.S. EPA 180.1	3-4150-3	2654.00
Infrared, 0 to 100 NTU/FNU, with ultrasonic auto self cleaning ISO 7027	3-4150-4	2971.00
White Light, 0 to 1000 NTU/FNU, with ultrasonic auto self cleaning U.S. EPA 180.1	3-4150-5	3286.00
Infrared, 0 to 1000 NTU/FNU, with ultrasonic auto self cleaning ISO 7027	3-4150-6	3602.00

The Signet 4150 Turbidimeter system provides accurate and reliable compliant water quality monitoring for municipal and industrial applications.

The 4150 measures turbidity via a 90 degree light which reflects particles as they flow through a small volume, low flow glass cuvette. Air bubbles are eliminated from the cuvette by adjusting the backpressure valve on the outlet tube. The cuvette is located in a watertight dark chamber for continuously accurate on-line measurement. A replaceable desiccant pack provides a dry-stable environment to ensure reliable measurements.

Simple and fast calibration can be accomplished in under five minutes by placing the in-line glass cuvette from the measuring chamber into the cuvette holder while still in service and the inlet and outlet tubing remains connected. The inexpensive calibration standard allows for dry and multiple system calibrations without mixing chemicals. After calibration, the unit is up and running with simple reinsertion of the glass cuvette back into the measuring chamber.

Additional features include a message indicator when the desiccant needs replacing and as an option, auto/ultrasonic cleaning of the glass in-line cuvette for longer runs between maintenance.

The 4150 is available in two measuring ranges. The 0 to 100 NTU/FNU version is for low range applications such as drinking water. The 0 to 1000 NTU/FNU range can be used for various applications including raw water and wastewater reclamation.

Features:
- Simple and easy single unit installation with built-in pressure regulator
- Versions compliant with either U.S. EPA 180.1 for North and South America and Asia or ISO 7027 for Europe
- Time saving and efficiencies of cuvette technology simplifies calibration (Full cleaning and calibration in less than ten minutes)
- Spannable 4 to 20 mA output or RS 485 output
- Two adjustable alarm relays
- Bright backlit display
- Easy access for wiring and maintenance
- Ultrasonic cleaning option ensures long and steady on-line measurement
- Inexpensive standards allow for multiple system calibrations

Applications:
- Monitor Filter Performance
- Raw or Filtered Water
- Municipal Water Distribution
- Wastewater Reclamation and Tertiary Effluent
- Aquatic Life Support
- Industrial Clarifiers

GF Signet 3519 Flow Wet-Tap Valve



The Signet 3519 Flow Wet-Tap Valve serves as a unique interface between the installation fitting and the wet tap style Signet 515 or 2536 Rotor-X flow sensor. It provides a fast method of removing the sensor from the pipe under specified operating pressures. The PVC and stainless steel design of the Wet-Tap makes it resistant to corrosion and chemical attack by acids, alkalies, salt, and a number of other harsh chemicals.

The Signet 3519 Wet-Tap Valve mounts directly onto standard Signet installation fittings. The 3519 Wet-Tap consists of a flange and support plate that threads onto the pipe fitting insert, and a PVC ball valve through which an extended length sensor is inserted into the pipe.

Features:
- Allows sensor removal without process shutdown
- Pressure release valve for safe sensor removal
- Dual safety lanyards
- Rugged corrosion-resistant PVC construction and stainless steel hardware
- Compatible with Signet 515 or 2536 Rotor-X Wet-Tap Flow Sensors
- Eliminates process downtime

Applications:
- Filtration Systems
- Chemical Production
- Pump Protection
- Scrubbers
- Water Distribution
- Effluent Totalization
- Process Cooling Loops

3519 Flow Wet-Tap Valve

Pipe Size (in.)	Flow Range	Mfg Part #	ALSCO #	Price $
N/A	Wet-Tap Valve only for 515 and 2536 Wet-Tap flow sensors	3-3519	3-3519	702.00
1/2 - 4	Valve with Model 515 sensor	3519/515-P3*	9056	1221.00
1/2 - 4	Valve with Model 2536 sensor	3519/2536-P3**	3519/2536-P3**	1367.00
5 - 8	Valve with Model 515 sensor	3519/515-P4*	9057	1281.00
5 - 8	Valve with Model 2536 sensor	3519/2536-P4**	3519/2536-P4**	1428.00
10 - 36	Valve with Model 515 sensor	3519/515-P5*	9058	1343.00
10 - 36	Valve with Model 2536 sensor	3519/2536-P5**	3519/2536-P5**	1489.00

*See model 515 data sheet for sensor specifications.
**See model 2536 data sheet for sensor specifications.

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SIGNET Accessories

GF Signet pH/ORP Buffer Solutions



The Signet pH buffers are ideal for many calibration requirements. The liquid solutions are conveniently packaged in one pint bottles; the powder pillows are packaged in low weight, single-use containers which can be mixed with water. All pH buffers are color coded for easy identification; 4.01 pH is red, 7.00 pH is yellow, and 10.00 pH is blue.

The pH buffers are traceable to NIST standards and certificates are available upon request. They are accurate to within ± 0.01 pH units @ 25 °C and have long term stability.

These solutions are temperature sensitive and are provided with temperature correction values for the most accurate calibration. For applications that require ORP calibration, the pH 4 and pH 7 buffers can be mixed with quinhydrone powder for the correct measurement values of +87 mV and +264 mV respectively.

pH/ORP Buffer Solutions

Description	Mfg Part #	Price $
Calibration kit; includes 3 polypropylene cups, box used as cup stand, 1 pint pH 4.01, 1 pint pH 7.00	3-2700.395	93.00
20 gram bottle quinhydrone for ORP calibration	3822-7115	129.00
pH 4.01 buffer solution, 1 pint (473 ml) bottle	3822-7004	28.00
pH 7.00 buffer solution, 1 pint (473 ml) bottle	3822-7007	28.00
pH 10.00 buffer solution, 1 pint (473 ml) bottle	3822-7010	28.00
pH buffer kit (1 each 4, 7, 10 pH buffer in powder form, makes 50 ml of each)	3-0700.390	7.00

Features:
- NIST traceable
- Easily identifiable color coded buffer solutions
- Liquid or powder versions
- Temperature compensated values
- Kits for easy use

5

GF Signet 4150 Turbidimeter Calibration Kits



The Calibration Standard kits contain fluids in special cuvette bottles that are used to compare the clarity of the process water against the standard to calibrate the turbidity instrument. The standard kits come in two pre-mixed, calibrated ranges.

The 0-100 version is generally used for measuring the turbidity of clean, potable water applications. The 0-1,000 version is used to measure water that has a turbidity which may exceed 100, such as water in a reclamation plant.

4150 Turbidimeter Calibration Kits

Description	Mfg Part #	Price $
Calibration Kit, Turbidity, 100, 10 & 0.02 NTU/FNU	3822-4001	377.00
Calibration Kit, Turbidity, 1000, 10 & 0.02 NTU/FNU	3822-4003	377.00
Replacement cuvette set (3 glass cuvettes)	4150-0007	100.00
Replacement cuvette with ultrasonic transducer	4150-0004	280.00

Features:
- Stable pre-mixed standards that are certified accurate
- Sealed calibration cuvettes
- Shelf life - 12 months
- Easy to follow instructions
- Kits for easy use

GF Signet 4150 Turbidimeter Formazin Stock Kit



The Formazin Stock Kit contains all chemicals and instructions to dilute/ mix calibration standards between 1.0 and 1980 NTU/FNU.

The Formazin Stock Kit can be used to calibrate third party turbidity instruments as well as the Signet 4150 Turbidimeter.

4150 Turbidimeter Formazin Stock Kit

Description	Mfg Part #	Price $
Formazin Stock Kit	3822-4002	470.00
Formazin Stock Solution, 4000 NTU/FNU, 500 ml	3822-4000	129.00
Replacement cuvette set (3 glass cuvettes)	4150-0007	100.00
Replacement cuvette with ultrasonic transducer	4150-0004	280.00

Features:
- Turbidity standard for most any value
- Three different graduated pipettes included
- Four glass cuvettes with light shield caps
- Easy to follow instructions

SIGNET Accessories

GF Signet i-Go™ 8058 Signal Converter



The Signet i-Go™ 8058 Signal Converter accepts any 4 to 20 mA signal and converts it into the Signet digital (S³L) format, the serial data format used by the Signet 8350, 8450, 8900 and 9900 instruments. When used with the 8900 Multi-Parameter Controller or the 9900 Transmitter, the measurement type and operating range are defined in the setup menu. When used with level, temperature and pressure ProcessPro transmitters, the 8058 is configured at the factory to the user's specifications. **If connecting an 8058-2 to a 9900 Transmitter, use Channel 1 only.**

The wire-mount single-channel version is easily mounted anywhere in the interconnecting wiring between the sensor and the instrument. The DIN rail mounted dual-channel version can convert one or two separate 4 to 20 mA inputs into a digital (S³L) output.

Features:
- Connects with level, temperature, pressure and Multi-Parameter Signet instruments
- Up to two 4 to 20 mA sensor inputs
- Connects additional measurement parameters to Signet Multi-Parameter instruments
- In-line wire or DIN rail mountable

Applications:
- Dissolved Oxygen Monitoring and Control in Wastewater
- Chlorine Dioxide for Disinfection
- Specific Ion
- BOD
- TOC
- Alkalinity
- Ozone Monitoring
- Conductivity
- Chlorine Injection Control
- Tank Level Monitoring
- Turbidity and Suspended Solids Monitoring

i-Go™ 8058 Signal Converter

Description	Mfg Part #	Price $
Single input wire-mount converter with short cable; for use with the 8900	3-8058-1	280.00
Two input DIN rail mount converter (customer supplied cable) for use with the 8900	3-8058-2	416.00

5

GF Signet Conductivity/Resistivity Tool



The Signet Conductivity/Resistivity tool is available for certification or validation of electronics that are independent of the electrode. Because there are no available liquid standards for calibration in low conductivity and resistivity applications, the tool is ideal for various installations. The tool is built to conform to the ASTM D 1125-95 Standard (Standard Test Methods for Electrical Conductivity and Resistivity of Water), which is also commonly used for USP 24 applications.

The Signet Conductivity/Resistivity tool simulates within ±0.1% precision (accuracy), various values: 1.0 µS, 2.5 µ S, 10.0 µ S, 10.0 MΩ, 18.2 MΩ. The tool is also temperature compensated to 25 °C and enables the user to accurately validate or certify the electronics.

The 2850-101-X simulators are used with the Model 9900 and Model 2850 electronics by simply plugging into the same terminals as the sensor cables.

Conductivity/Resistivity Plug-in NIST Traceable Tool

Description	Mfg Part #	Price $
1.0 µS simulated for Signet Models 2850-5X, 2850-6X	3-2850.101-1	121.00
2.5 µS simulated for Signet Models 2850-5X, 2850-6X	3-2850.101-2	121.00
10.0 µS simulated for Signet Models 2850-5X, 2850-6X	3-2850.101-3	121.00
18.2 MΩ simulated for Signet Models 2850-5X, 2850-6X	3-2850.101-4	121.00
10.0 MΩ simulated for Signet Models 2850-5X, 2850-6X	3-2850.101-5	121.00

Features:
- Available in five different values
- Compatible with all Signet Conductivity/Resistivity instruments
- Verifies electronics independent of electrode
- NIST traceable units
- Temperature compensated to 25 °C
- All units ship with NIST traceable certificates

GF Signet 8059 External Relay Modules



Signet 8059 External Relay Modules supplement the output capabilities of certain host instruments such as the Signet Multi-Parameter Controllers. AC-powered versions accept universal line voltage, and also provide 24 VDC output that can be used to power the host instrument or other device(s).

The host instrument controls relay operation by way of a single digital (S³L) connection. The compact plastic housing is DIN rail mountable and includes LED annunciators for each relay, plus one each for power on and data transfer or test mode.

Features:
- External relays controlled by host instrument
- AC and DC powered versions
- DC power output (AC versions)
- DC power pass-through (DC versions) to simplify wiring
- Digital (S³L) pass-through to simplify sensor wiring
- Red LED annunciators for each relay
- Green LED indicators for power and digital (S³L) data transfer
- Relay can be tested locally, and also via the host instrument

8059 External Relay Modules

Description	Mfg Part #	Price $
12 to 24 VDC ±10% regulated with pass-through DC output (minus 0.7 volts)	3-8059-4	492.00
100 to 240 VAC with 24 VDC output ±10% regulated	3-8059-4AC	627.00

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SIGNET Accessories

GF Signet 7310 Switching Power Supplies



7310 Switching 24 VDC Power Supply

Description	Mfg Part #	Price $
10W, 0.42 A	7310-1024	114.00
24W, 1.0 A	7310-2024	153.00
40W, 1.7 A	7310-4024	179.00
60W, 2.5 A	7310-6024	269.00
96W, 4.0 A	7310-7024	346.00

Signet 7310 Switching Power Supplies provide regulated output voltage in compact and lightweight plastic housings for DIN Rail mounting. The series includes five different output capacities from 0.42A to 4A (10W to 96W), all of which accept universal AC line voltage input and meet worldwide standards for performance and safety. These units meet the power requirements for a single system, multiple Signet instruments or other devices requiring 24 VDC operation.

Features:
- Universal AC input/Full range
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- Install on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption < 1W for 7310-7024 and < 0.75W for others
- 100% full load burn-in test

Compatibility:
- Signet Instruments
- Electromagnetic Flow Sensors
- Suitable for Electric Actuated Valves, including Solenoid
- Suitable for powering passive outputs and relays

GF Signet 2759 pH/ORP System Tester



The Signet 2759 pH/ORP Simulator is a battery powered millivolt generator that simulates pH values of 4, 7 and 10, plus ORP values of ±700 mV. This device is useful as a troubleshooting aid and for general verification of system operation. It is not a substitute for periodic system calibration with pH buffers or test solutions.

Accessory adapter cables enable the 2759 to connect directly to Signet 2760 preamplifiers, or 2750 pH/ORP Sensor Electronics. The adapters include a selector switch for pH (3K or PT1000 Temperature Compensation) or ORP simulation. The switch triggers automatic sensor recognition software in Signet pH/ORP instrumentation.

2759 pH/ORP System Tester

Description	Mfg Part #	Price $
pH/ORP System Tester Kit for all pH Instruments	3-2759	504.00
Adapter Cable for use with 2750 and 2760	3-2759.391	109.00

Features:
- Battery powered millivolt generator
- Simulates pH and ORP values
- High impedance input simulates preamplified signal
- Verifies system functionality
- Compatible with 2750 and 2760 preamplifiers
- Connects to any Signet pH/ORP instrument
- Verifies preamplifier or instrument electronics

GF Signet Installation Fittings



PVC Clamp-on Saddle, Metric

Size (in.)	Part #	Price $
3	PVMS030	POA
4	PVMS040	POA
6	PVMS060	POA



PVC for Socket Systems, Metric

Size (in.)	Part #	Price $
1/2	PVMT005	POA
3/4	PVMT007	POA
1	PVMT010	POA
1 1/4	PVMT012	POA
1 1/2	PVMT015	POA
2	PVMT020	POA



PP-H for Socket Fusion, Metric

Size (in.)	Part #	Price $
1/2	PPMT005	223.00
3/4	PPMT007	223.00
1	PPMT010	241.00
1 1/4	PPMT012	280.00
1 1/2	PPMT015	327.00
2	PPMT020	398.00



PVDF, Socket Fusion, Metric

Size (in.)	Part #	Price $
1/2	SFMT005	319.00
3/4	SFMT007	319.00
1	SFMT010	350.00
1 1/4	SFMT012	383.00
1 1/2	SFMT015	422.00
2	SFMT020	487.00



Carbon Steel Threaded Tees with NPT Threads

Size (in.)	Part #	Price $
1/2	CS4T005	351.00
3/4	CS4T007	351.00
1	CS4T010	351.00
1 1/4	CS4T012	185.00
1 1/2	CS4T015	274.00
2	CS4T020	346.00



Copper Sweat-on Tee with PVDF Insert

Size (in.)	Part #	Price $
1/2	CUKT005	332.00
3/4	CUKT007	332.00
1	CUKT010	332.00
1 1/4	CUKT012	245.00
1 1/2	CUKT015	273.00
2	CUKT020	410.00



Galvanized Iron Threaded Tee with NPT Threads & PVDF Insert

Size (in.)	Part #	Price $
1	IR4T010	140.00
1 1/4	IR4T012	140.00
1 1/2	IR4T015	140.00
2	IR4T020	140.00



316 SS Threaded Tees with NPT Threads with PVDF Insert

Size (in.)	Part #	Price $
1/2	CR4T005	490.00
3/4	CR4T007	490.00
1	CR4T010	490.00
1 1/4	CR4T012	274.00
1 1/2	CR4T015	283.00
2	CR4T020	351.00



Brass Threaded Tee with NPT Threads and PVDF Insert

Size (in.)	Part #	Price $
1	BR4T010	201.00
1 1/4	BR4T012	157.00
1 1/2	BR4T015	190.00
2	BR4T020	238.00



Fiberglass Glue-on Tees

Size (in.)	Part #	Price $
1 1/2	FPT015	432.00
2	FPT020	479.00

SIGNET Installation Fittings

GF Signet Installation Fittings



PVC Tee SCH 80 - Fitting Only

Size (in.)	Part #	Price $
1/2	MPV8T005F	138.00
3/4	MPV8T007F	138.00
1	MPV8T010F	138.00
1 1/4	MPV8T012F	153.00
1 1/2	MPV8T015F	161.00
2	MPV8T020F	179.00



PVC Tee SCH 80 - with Pipe

Size (in.)	Part #	Price $
1/2	MPV8T005	233.00
3/4	MPV8T007	233.00
1	MPV8T010	242.00
1 1/4	MPV8T012	258.00
1 1/2	MPV8T015	258.00
2	MPV8T020	275.00



PVC Tees SCH 80 - with Pipe

Size (in.)	Part #	Price $
2 1/2	PV8T025	272.00
3	PV8T030	294.00
4	PV8T040	326.00



PVC Clamp-on Saddles SCH 80

Size (in.)	Part #	Price $
2	PV8S020	175.00
2 1/2	PV8S025	175.00
3	PV8S030	205.00
4	PV8S040	242.00
6	PV8S060	294.00
8	PV8S080	362.00



CPVC Tees SCH 80 - Fitting Only

Size (in.)	Part #	Price $
1/2	MCPV8T005F	161.00
3/4	MCPV8T007F	161.00
1	MCPV8T010F	161.00
1 1/4	MCPV8T012F	188.00
1 1/2	MCPV8T015F	199.00
2	MCPV8T020F	210.00



CPVC Tees SCH 80 - with Pipe

Size (in.)	Part #	Price $
1/2	MCPV8T005	233.00
3/4	MCPV8T007	233.00
1	MCPV8T010	233.00
1 1/4	MCPV8T012	247.00
1 1/2	MCPV8T015	258.00
2	MCPV8T020	282.00



PP-H, Wafer Fitting, Metric and Inch (EPDM gaskets)

Size (in.)	Part #	Price $
2 1/2	PPMTE025	641.00
3	PPMTE030	652.00
4	PPMTE040	695.00
6	PPMTE060	838.00
8	PPMTE080	1016.00
10	PPMTE100	1203.00
12	PPMTE120	1314.00



PP-H, Wafer Fitting, Metric and Inch (FPM gaskets)

Size (in.)	Part #	Price $
2 1/2	PPMTF025	662.00
3	PPMTF030	673.00
4	PPMTF040	763.00
6	PPMTF060	786.00
8	PPMTF080	1016.00
10	PPMTF100	1203.00
12	PPMTF120	1314.00



SYGEF Standard, Wafer Fitting, Metric and Inch

Size (in.)	Part #	Price $
2 1/2	SFMTF025	1190.00
3	SFMTF030	1362.00
4	SFMTF040	1398.00
6	SFMTF060	1815.00
8	SFMTF080	2839.00
10	SFMTF100	3637.00
12	SFMTF120	3967.00



PVC Glue-on Saddle Fitting SCH 80

Size (in.)	Part #	Price $
10	PV8S100	484.00
12	PV8S120	484.00



Iron Strap-on Saddle for use with SCH 80 Metal Pipe (ASTM)

Size (in.)	Part #	Price $
2	IR8S020	176.00
2 1/2	IR8S025	241.00
3	IR8S030	241.00
4	IR8S040	241.00
5	IR8S050	305.00
6	IR8S060	321.00
8	IR8S080	352.00
10	IR8S100	635.00
12	IR8S120	635.00



Carbon Steel Weld-on Weldolets for use with SCH 40 Metal Pipe (ASTM)

Size (in.)	Part #	Price $
2 1/2	CS4W025	176.00
3	CS4W030	176.00
4	CS4W040	176.00
5	CS4W050	230.00
6	CS4W060	230.00
8	CS4W080	230.00
10	CS4W100	536.00
12	CS4W120	536.00



Brass Brazolet with PVDF Insert for use with Copper Pipe (SCH 40 ASTM)

Size (in.)	Part #	Price $
2 1/2	BR4B025	458.00
3	BR4B030	458.00
4	BR4B040	458.00
5	BR4B050	633.00
6	BR4B060	633.00
8	BR4B080	633.00
10	BR4B100	950.00
12	BR4B120	950.00



316 SS (1.4401) Weldolets with PVDF Insert for use with SCH 40 Metal Pipe (ASTM)

Size (in.)	Part #	Price $
2 1/2	CR4W025	597.00
3	CR4W030	597.00
4	CR4W040	597.00
5	CR4W050	627.00
6	CR4W060	627.00
8	CR4W080	627.00
10	CR4W100	927.00
12	CR4W120	927.00



Metalex Weld-on Mini-Tap

Size (in.)	Part #	Price $
1 1/4	P526-2012	373.00
1 1/2	P526-2015	373.00
2	P526-2020	373.00
2 1/2	P526-2025	373.00
3	P526-2030	373.00
4	P526-2040	373.00
5	P526-2050	373.00
6	P526-2060	373.00
8	P526-2080	373.00
10	P526-2100	373.00
12	P526-2120	373.00



Electrofusion for PE pipes: Transition Saddles with Stainless 1 1/4 Inch Outlet

Size (in.)	Part #	Price $
2	10004673	174.00
3	10004686	174.00
4	10004700	174.00
6	10004717	174.00
8	10004740	POA



Electrofusion for PE pipes: Transition Saddles with Stainless 1 1/2 Inch Outlet

Size (in.)	Part #	Price $
2	10004676	174.00
3	10004689	174.00
4	10004703	174.00
6	10004720	174.00
8	10004743	174.00



Metalex Socket Weld Mini-Tap

Size (in.)	Part #	Price $
1/2	P526-2005	470.00
3/4	P526-2007	470.00
1	P526-2010	541.00

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ALSCO™ SIGNET Installation Guidelines

pH and Conductivity Sensor Installation Guidelines

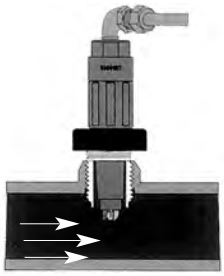


Figure 1:

For proper sampling and increased life, the sensor should be placed as far as possible from point of reagent addition, and close to the exit of the tank in submersible applications. Flow rate past the electrode should be less than 4 ft/s for bulb and 5 ft/s for flat surface configurations.
Signet's unique connection technology makes it easy to maintain a clean, dry contact between the probe and pre-amplifier. Contact surfaces should be protected from excessive exposure to dirt or spray during installation and maintenance. Signet pre-amplification allows for pH signal transmission up to 400 ft. Keep electrode clean and well maintained for a longer life.

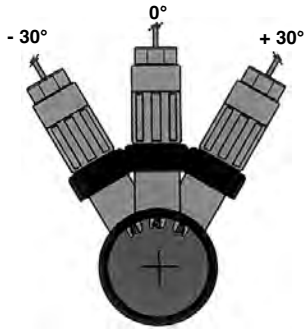


Figure 2:

In order to maintain proper flow of electrolyte through the reference junction, and to prevent air from affecting the measuring element, pH electrodes should be mounted vertically + 30°. Keep the electrode wet at all times. Storage is best in a KCL solution.

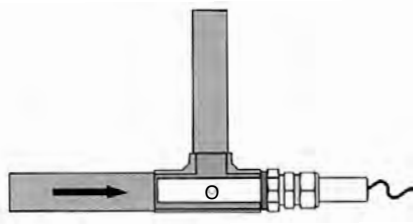


Figure 3:

For a standard threaded sensor, mounting with flow into the sensor is recommended. A four o'clock installation position is ideal when the sensor is used with Signet fittings. The electrode should be mounted to prevent air entrapment in the sensor. In aerated tanks, a baffle may be needed. Coating of the electrodes will cause erroneous readings, so avoid oils from coming in contact with the electrode. Conductivity signal transmission to 100 ft. is acceptable.

Flow Installation Guidelines

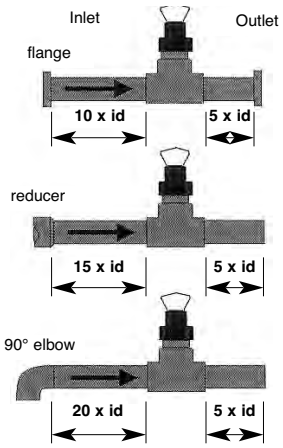


Figure 1:

Flow sensors generally depend upon a "fully developed turbulent flow profile" for maximum linearity and accuracy. To achieve this, the sensor must be located in a straight run of pipe upstream and downstream of the sensor. Major obstructions such as pumps or throttled valves will require longer straight runs.

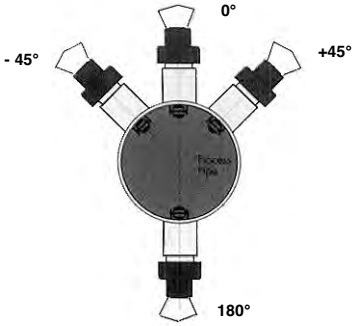


Figure 2:

In horizontal pipe runs with no air pockets or sediment present, mount the sensor / fitting in the 12 o'clock or 6 o'clock position. If sediment or air pockets are present, tilt the sensor / fitting at a maximum angle of 45° to overcome these obstacles.

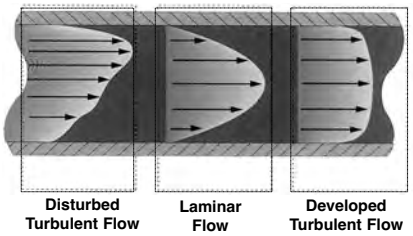
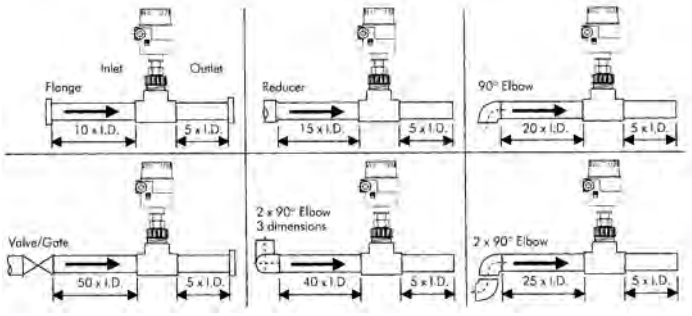


Figure 3:

The most common flow profile found in industrial applications are fully developed turbulent flow (require for Signet sensors). The second type, disturbed turbulent flow, is less stable and occurs when the flow is interrupted by a valve, elbow, or other obstruction. To achieve a developed turbulent flow, refer to the steps in figure 1. The third type, laminar flow, occurs with highly viscous fluids, or fluids traveling at very low velocities. This flow condition is measured with a Reynolds number. Typically, flow conditions with a Reynolds number lower than 2,000 are considered laminar. For a developed turbulent flow acceptable for Signet sensors, this number should be above 4,500.

GF SIGNET Installation Data:

For maximum linearity and accuracy, the sensor should be located in a straight run of pipe upstream and downstream of the sensor. Major obstructions such as pumps or throttled valves will require longer straight runs.



ICON Instruments

TKB Series - Battery Operated Paddle Wheel Flow Meter





TKB Series - PVC Body

Size (in.)	End Connections	Part #	Price $
1/2	Threaded / Socket	TKB-15-P	449.00
3/4	Threaded / Socket	TKB-20-P	499.00
1	Threaded / Socket	TKB-25-P	549.00
1 1/2	Threaded / Socket	TKB-40-P	629.00
2	Threaded / Socket	TKB-50-P	729.00
3	Flanged	TKB-80-P	1399.00
4	Flanged	TKB-100-P	1999.00

Features:

- High Accuracy ± .50% of Full Scale
- Unit of Flow Measurement is Selectable (Liter / Gallon / Kilo-liter)
- Corrosion Resistant Materials PVC / PP / PVDF / 316SS
- Low Cost Visual Indication
- Easy Installation - No Mounting Kits
- High Flow Range (.3 m/s - 10 m/s) (.98 ft/s - 32.8 ft/s)
- Easy to Program
- Battery 3V DC / 2 Year Battery Life (Eco Mode)
- Large LCD Digital Display
- Non-Resettable Totalizer Option
- Size Range 1/2" - 4"Low Pressure Drop
- NEMA 4X Enclosure
- Suitable for Corrosive Environments
- Password Protected Security 2 Levels
- True-Union Design - 1/2" - 2" Flanged - 3" - 4"
- PVDF and PP Available

LSS Flow Meter - Plastic Paddle Wheel Flow Meter



Features:

- Heavy Duty Industrial Design
- Large Display Changes from Green to Red when in Alarm State
- Accuracy ± 0.75% Of Full Scale
- Pipe Size (1/2" - 24")
- Flow Rate + Totalizer (Resettable)
- Flow Velocity Range (0.33 to 26 Ft/S) (0.1 To 8 M/S)
- Eprom Memory-Totalizer Value Will Not Be Lost
- NEMA 4X (IP66) Protection
- Bright LED Display Flow Units - Liter / GPM / M3 / Ton
- Supply Voltage 14-28 VDC
- Output 4-20 mA + Two (7) Amp Relays Output (Standard)
- Corrosion Resistant All Plastic Wetted Parts - PVDF / PP Body Zirconium Ceramic Shaft - PFA Paddle
- Retrofits into Signet® Tee or Saddle Fitting

LSS Flow Meter

Size (in.)	Meter	Part #	Price $
1/2 - 4	PP	LSS3023NNF8	749.00
6 - 24	PP	LSS3123NNF8	789.00
1/2 - 4	PVDF	LSS5023NNF8	899.00
6 - 24	PVDF	LSS5123NNF8	949.00

ProPulse Turbine Flow Meter



Features:

- Designed for Dosing / Pulsating Flows
- Universal Body 5 Different Flow Ranges (Flow Jets Are Field Replaceable)
- Excellent Chemical Resistance
- All Plastic PVDF Body / Rotor / Sapphire Bearings
- Ultra Low Flow Ranges from 50 ml/min (.013 GPM)
- Pressure Rating 10 bar (150 psi)
- Compact / Lightweight
- Barbed Hose Inlet / Outlet Connection
- 5/16" and 1/2" Tube or 3/8" Pipe Connector
- Temperature Rating -40 - 120°C (-40 - 248°F)
- High Accuracy and Repeatability
- NPN Frequency Pulse Output

ProPulse Turbine Flow Meter

Size (in.)	Description	Part #	Price $
3/8	Flying Lead	300-J-0	495.00
3/8	M12 Connection	300-J-1	595.00
5/16 - 1/2	Flying Lead	420-O-0	495.00
5/16 - 1/2	M12 Connection	420-O-1	595.00

PM Series Magnetic Flow Meter



Features:

- Heavy Duty Design - No Moving Parts
- Sizes 1/2", 3/4", 1"
- Flow Rates 0.25 to 250 L/min (.6 - 66 GPM)
- Pulse Output / Calibrated Range
- Stainless Steel 316 L Electrodes
- No Programming
- Lightweight / Corrosion Resistant
- High Flow Capacity
- Corrosion Resistant PVDF Body

PM Series
Magnetic Flow Meter

Size (in.)	Part #	Price $
1/2	PM0500	1299.00
3/4	PM0750	1399.00
1	PM1000	1499.00

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ICON Instruments

UltraFlo 1000 Series - PFA Ultrasonic Flow Meter



Features:
- Designed for Dosing / Pulsating Flows
- Flared Tubing Ends
- Completely Corrosion Resistant
- Lightweight
- Power Supply 24 VDC
- Output 4-20 mA + Pulse Relay
- Low Flow Rates - 0.02 LPM - 0.005 GPM
- IP67 Enclosure
- Negligible Pressure Drop
- Empty Pipe Alarm
- Ultra-pure Flow Design
- Air Bubble Alarm Output

UltraFlo 1000 Series

Size (in.)	Part #	Price $
3/8	UFM-1000-37	2799.00
1/2	UFM-1000-50	2999.00
3/4	UFM-1000-75	3199.00
1	UFM-1000-100	3299.00

UltraFlo 4000 Series - Polysulphone Ultrasonic Flow Meter



Features:
- Designed for Dosing / Pulsating Flows
- No Moving Parts
- Heavy Duty Design; Simple to Install
- Completely Corrosion Resistant
- RS-485 Output
- Display Flow Rate + Totalizer
- Power Supply 24 VDC
- Output 4-20 mA + Pulse Relay
- Low Flow Rates - 0.3 LPM / 0.079 GPM
- IP67 Enclosure
- Negligible Pressure Drop
- Empty Pipe Alarm
- PVC / CPVC True Union Ends (Option)

UltraFlo 4000 Series

Size (in.)	Part #	Price $
1/2	UFM-4000-50	2199.00
3/4	UFM-4000-75	2399.00
1	UFM-4000-100	2599.00
1 1/4	UFM-4000-125	2799.00

UltraFlo 5000 Series - PVDF-PE Ultrasonic Flow Meter



Features:
- Designed for Dosing / Pulsating Flows
- 1/2", 3/4", 1" NPT / G Connections
- Completely Corrosion Resistant
- RS-485 Output
- Lightweight
- Power Supply 24 VDC
- Output 4-20 mA + Pulse Relay
- Low Flow Rates - .024 LPM / .006 GPM
- IP67 Enclosure
- Negligible Pressure Drop
- Empty Pipe Alarm

UltraFlo 5000 Series

Size (in.)	Material	Part #	Price $
1/2	PE	UFM-5000-50	2199.00
3/4	PE	UFM-5000-75	2399.00
1	PE	UFM-5000-100	2599.00
3/4	PVDF	UFM-5000-75-P	2899.00
1	PVDF	UFM-5000-100-P	2999.00

FES Series - Heavy Duty PP Plastic Flow Switch



Features:
- All Plastic Construction
- In-Line Design / Insertion Style
- Nema 4X Enclosure
- Corrosion Resistant PP Body / Paddle
- 1/2" - 8" Pipe / Tee / Saddle
- Heavy Duty Rugged Design
- Low Pressure Drop
- Easy to Install
- Can be Easily Changed from Normally Open to Normally Closed
- Max. Power Supply 200 VDC / 250 VAC
- Max. Power 50W
- Max. Contact Current 1.5 Amp

FES Flow Switch

Size (in.)	Part #	Price $
1/2 - 2	FES-005-2	299.00
3	FES-005-3	299.00
4	FES-005-4	299.00
4	FES-005-41	299.00
6	FES-005-6	299.00
8	FES-005-8	299.00

UFS Series - All Plastic Flow Switch



Features:
- RYTON Body
- Excellent Chemical Resistance
- Size Range 1/2" - 16"
- Easy to Install
- Excellent for Low or High Temperatures -25 To 90°C (-4 to 194°F)
- Excellent Mechanical Properties
- High Pressure Rating / Up To 200 PSI
- High Wear Resistance
- Heavy Duty Design
- No Power Required
- Electrical Connection 2 Wire Max. Power 1 Amp
- Excellent Pump Protection

UFS Flow Switch

Size (in.)	Description	Part #	Price $
1/2 - 16	Normally Open	UFS-NO	148.00
1/2 - 16	Normally Closed	UFS-NC	148.00

ICON Instruments

TVU Series - Universal Multi-Color Display / Controller



Features:
- Universal Inputs - Current / Pulse / Voltage
- Power Supply Output 24 VDC
- 2 or 4 Relay Outputs - 5 Amp
- 4-20 mA Output + Relay Output
- 4-20 mA + RS-485 / Modbus RTU Standard
- LED Display Color to mirror process Conditions
- Cord Grips Included
- NEMA 4X Enclosure Included
- Completely Corrosion Resistant
- Eliminates the Need for Stack Lights

TVU Series

Input	Output	Part #	Price $
4-20 mA	2 Relay	TVU-1121	1299.00
4-20 mA	4-20 mA	TVU-1129	1299.00
4-20 mA	4 Relay	TVU-1421	1299.00
4-20 mA	4-20 mA + 2 Relay	TVU-1429	1599.00

ICON VDC Power Supply - 120 VAC - 24 VDC Power Supply



Features:
- Input: 100 - 240 VAC, 50/60 Hz,
- Output: 24 VDC
- Cable: 6 foot cord
- Operating temperature: 0°C to 40°C at maximum load
- Storage temperature: -20°C to 60°C
- Over voltage and short circuit protected
- No minimum load required
- Double insulated

VDC Power Supply

Material	Part #	Price $
Noryl	VDC120-24	105.00

100 Series - Heavy Duty Industrial Level Transmitter



Features:
- PVC, PP, PVDF, 316 SS Body
- Compact Design
- Excellent Long Term Stability
- High Accuracy
- Flush Sensor / Non Clogging Design
- Heavy Duty PTFE Cable
- Excellent for Foam, Vapor or Condensate
- Ceramic Sensing Diaphragm
- Heavy Duty Rugged Design
- No Moving Parts
- Automatic Temperature Compensation
- DC Power Only
- 2-wire / 4-20mA (Loop Powered) Hart / RS 485 / Voltage

100 Series

Depth	Material	Part #	Price $
0-34ft / 15m	PVC	191-1001-A113315	899.00
0-34ft / 15m	PP	191-1001-B113315	999.00
0-34ft / 15m	PVDF	191-1001-E113315	1299.00

LP 200 Series - Plastic In-Line Pressure Transmitter



Features:
- PP, PVDF / Ceramic Sensor
- Excellent Chemical Resistance
- Level Pressure Indication
- 0-225 PSI (Other Ranges Available)
- Output: 4-20 mA
- 3/4" NPT or G Type Connection
- Ceramic Sensing Diaphragm
- High Accuracy ±0.5%
- LED Display / Relay Output (Optional)
- Temperature Compensated
- Process or Tank Level Measurement
- Input Signal 4-20 mA
- Output Signal 4-20 mA / 2-wire

LP 200 Series

Size (in.)	Material	Part #	Price $
1/2	PP	LP200-1-0	499.00
1/2	PVDF	LP200-2-0	549.00
3/4	PP	LP200-PP	499.00
3/4	PVDF	LP200-PF	549.00

ICON Instruments

NC Series Flow / Level - Non-Contact Plastic Flow / Level Switch





Features:
- Wide Range of Tubing Diameters - 1/4" to 1/2"
- NC-15 Capacitance Technology
- NC-25 Photo-Electric Technology
- Non-Intrusive
- Mounting Bracket Optional
- All Plastic Design
- Simple to Install
- Tube Thickness / Heavy Walled 0.062"
- Lightweight
- Very Accurate / Sensitivity Adjustment
- Perfect for Dosing or Metering Pumps
- Supply Voltage 12-24 VDC
- Output NPN / PNP 100 mA Max.

Flow / Level Switch

Material	Part #	Price $
PBT	NC-15	219.00
PBT	NC-25	219.00

LFS PP Spray Shields - All Plastic Flange Spray Shield



Features:
- PP Solid 2-Piece Construction
- Completely Corrosion Resistant
- Lightweight
- Perfect for Plastic Piping Systems
- Readily Reusable
- Plug and Play / No Tools Required
- No Down Time
- Resists Chemical Attack
- Quick Installation / Under 2 Minutes



360 Directional Discharge Port Available in Yellow 1/2" - 3" Sizes Only
Port Size is 1/8" OD Straight Pipe

Optional Leak Detection NC Series

LFS PP Spray Shields

Size (in.)	Transparent #	Yellow #	Price $
1/2	LFS005	LFS005Y	42.00
3/4	LFS007	LFS007Y	44.00
1	LFS010	LFS010Y	46.00
1 1/2	LFS015	LFS015Y	50.00
2	LFS020	LFS020Y	54.00
2 1/2	LFS025	LFS025Y	56.00
3	LFS030	LFS030Y	58.00
4	LFS040	N/A	60.00
6	LFS060	N/A	69.00

5

LD Plastic Leak Detection Switch



LD Leak Detection Switch

Part #	Price $
LD-01N	229.00

Features:
- Floor Design
- Capacitive Fail-Safe Design
- Perfect for Aggressive Chemicals
- Completely Corrosion Resistant
- Containment Dikes
- Double Wall Tanks
- Leakage Basins / Dosing Skids
- Computer Rooms
- Leaking Pumps
- Power Supply 10-30 VDC
- Output NPN / PNP Maximum 150 mA

PLS Plastic Leak Detection Switch



Features:
- Completely Corrosion Resistant
- Slosh Shield
- PE Plastic Enclosure - Allows sensor to stand vertically between interstitial wall of tank
- No Power Required
- PP Float / PVC Jacket 10 ft Cable
- Standard SPST Switch

PLS Leak Detection Switch

Size (in.)	Material	Part #	Price $
1/2	PP/PE	PLS-PEV	59.00

LDS Leak Detection Switch



Features:
- Suitable for Corrosive Environments
- High Stability with Thermal Compensation
- PP All Plastic Body
- High/Low Level Sensor
- Non-Contact Technology
- No Moving Parts
- Mounting Bracket Included
- LED Notification

LDS Leak Detection Switch

Material	Part #	Price $
PP	LDS-YN	229.00

LP20 Leak Detection Switch



Features:
- Suitable for Corrosive Environments
- High Stability with Thermal Compensation
- PP All Plastic Body
- Non-Contact Technology
- Mounting Bracket Included
- LED Notification

LP20 Leak Detection Switch

Material	Part #	Price $
PP	LP20-05	189.00

Flow Switches

Flotect® Vane Operated Flow Switches



ALSCO #	Price $
3870	110.00

Operation is simple and dependable. In most applications, the switch in normally off while there is sufficient flow of liquid or air. When the flow stops, the vane spring moves the vane, actuating a single pole double throw switch rated 5A @ 120/250 VAC to start or stop motor, pump, engine, etc. Operate a damper or valve; shut down a burner or actuate an alarm or signal, protecting unattended equipment from damage or loss of production.

The V8 Flotect® Flow Switch has a leak proof body and vane. The full size trimmable vane is provided with molded-in graduations allowing for installation in a 1" through 6" pipe. The V* flow switch can be used in various chemical processes, industrial systems and similar applications where process conditions are compatible with polyphenylene sulfide, ceramic 8 and 316SS.

Approx. Actuation / Deactuation

	Cold Water Flow Rates	Air Flow Rates
Pipe Size (in.)	GPM LPM	SCFM LPM
1	10.8 / 9.1 40.9 / 34.6	39 / 32.6 1105 / 923
1 1/4	9.8 / 8.3 37.2 / 31.4	37.5 / 32.2 1062 / 912
1 1/2	8.6 / 6.8 32.4 / 25.7	33.4 / 26.7 945 / 757
2	10.9 / 8.8 41.2 / 33.4	43 / 36.8 1218 / 1042
3	12.9 / 8.9 48.8 / 33.5	52.7 / 38.9 1493 / 1100
4	21.1 / 13.8 79.7 / 52.2	87.6 / 63.6 2482 / 1802
6	45 / 33 170.2 / 124.7	168.6 / 137.4 4775 / 3890

Specifications:
- Temperature Limit: 212°F maximum
- Pressure Limit: 150 PSIG (10 Bar)
- Wetted materials: Vane and Body: Polyphenylene Sulfide (PPS), Pin and Spring: 316SS on Inconel, Magnet: Ceramic 8.
- Enclosure rating: General purpose
- Switch Type: SPDT snap switch; MV option: SPDT gold contact snap switch.
- Electrical Rating: 5A @ 125/250 VAC, 5A resistive, 3A inductive @ 30 VDC, MV option: 1A @ 125VAC, 1A resistive, 0.5A inductive @ 30 VDC.
- Electrical Connections: 18 AWG 18" (460mm) long.
- Conduit Connection: 1/2" male NPT.
- Process Connection: 1" male NPT.
- Mounting Orientation: Switch can be installed in any position but the actuation/deactuation flow rates are based on horizontal pipe run and are nominal valves.
- Set Point Adjustment: Vane is trimmable.
- Agency approvals: CE, UL 508 for US and Canada.

Plast-O-Matic® Compact Flow Switches - Series FS and FSA

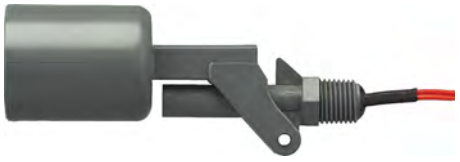


Pre-set Series FS is available with flow rate range from .7 - 25 GPM. Switches offered from 5 VDC to 240 VAC. Adjustable Series FSA offers flow rate range from 8 - 1900 GPM, designed for pipe size 1" through 10". FSA permits continuous adjustment during operation; SPDT 15 amp switching capacity model or Dry Computer/PLC Interface model. Both FS & FSA have ±10% accuracy with 5% repeatability. Offered in PVC or CPVC with no wetted metals.

NOTE: POA - Price On Application

Features:
- Ideal for confirming operation of pressure relief, regulating or actuated valves.
- Flow switch performance Independent of pressure and temperature.
- Customizable design.
- Extremely Wide Operating Range: .7 - 25 GPM
- Higher flow rates/pipe sizes available on special order.
- Maximum flow may be five times normal flow.
- Positive stop essentially eliminates fatigue effects of turbulence, vibration and flow surge on flow detecting element.
- Very low pressure drop - typically less than 1.0 psig at normal flow rate.
- Accuracy ±10% with ±5% repeatability.
- Nema 4 design.
- Switches 5 VDC to 240 VAC.
- Provides dry circuit interface with computer and PLC modules.
- Small size and low profile provides easy mounting in crowded installations.

Plast-O-Matic® Liquid Level Switches - Series LLS



Description	ALSCO #	Price $
PVC Normally Closed / Vertical	LLS125NCT-PV	132.00
PVC Normally Open / Horizontal	LLS125NOT-PV	132.00
CPVC Normally Closed / Vertical	LLS125NCT-CP	132.00
CPVC Normally Open / Horizontal	LLS125NOT-CP	132.00

Series LLS with pivot pin design features 1 1/4" x 1/4"x 1/2" reducer bushing for through wall mounting. SPST reed switch for 120/240 VAC 50 Watt power or optional DC dry circuit for computer/PLC interface. PVC or CPVC body materials; no wetted metals or elastomers.

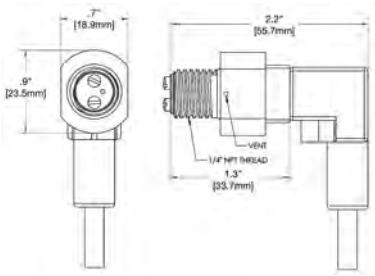
Features:
- Side and Top Mount
- No wetted metals or elastomers
- Superior pivot pin design is 10x less sensitive to deposit build-up than sliding float models
- 1 1/4" x 1/4"x 1/2" reducer bushing for through wall mounting
- 24″ of twisted pair 22 gauge output wire
- SPST reed switch for 120/240 VAC 50 Watt power
- Optional DC dry circuit for computer/PLC interface
- Nema 4 design

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Fluid Presence Sensor

Plast-O-Matic® Fluid Presence Sensors for Corrosive and Ultrapure Liquids - Series FPS





Series FPS

Size (in.)	Sensor Material	Part #	Price $
1/4	PVC	FPS025-PV	94.00
1/4	CPVC	FPS025-CP	113.00
1/4	PP	FPS025-PP	113.00
1/4	PVDF	FPS025-PF	146.00

Series FPS provides low voltage signal and visual indication when liquid is present in non-pressurized piping or components. Designed for one-time use; requires simple sensor replacement after the sensor is triggered. In less aggressive chemical applications, the probes may be cleaned and re-used.

Suitable for any conductive liquid with a resistance less than 3 Megohm.

Features:

- 24V DC low voltage control wire signals presence of liquid.
- IP67 DIN Connector with LED indicator and 2M molded cordset included.
- 1/4" Connection; 1/8" optional for use with Fail-Dry®.
- Ideal for leak detection, water sensing, relief tanks, any non-pressurized location where the system operator must be alerted to the unexpected presence of liquid.

5

All prices subject to change without notice.

Flowline Pulse and Wave Radar Level Transmitters



Pulse Radar Level Transmitters

Best for Difficult Bulk Tank Applications

These pulse radar sensors are the non-contact level measurement solution for your most demanding storage, process or lift station applications.



ECHOPULSE® LR10

The general purpose 26 GHz. pulse radar level transmitter provides continuous level measurement up to 32.8' (10m) with a 4-20 mA signal output, and is configured via its integral push button display module. The non-contact liquid level sensor is intended for chemical or water storage applications in above grade metal or reinforced concrete tanks or below grade tanks of any material. Select this sensor for easy application conditions with corrosive media, light agitation, condensation or vapor, and installation in a low-profile tank adapter or flange fitting.



ECHOPULSE® LR15

The general purpose 26 GHz. pulse radar transmitter provides continuous level measurement up to 98.4' (30m) with a 4-20 mA signal output, and is configured via its integral push button display module. The non-contact liquid level sensor is intended for petroleum, water, wastewater and diluted chemical storage or process applications in above or below grade tanks of any material. Select this sensor for challenging application conditions with low or non-corrosive media, light surface foam or agitation, higher temperature or pressure, condensation or vapor, and installation in a tank adapter, flange fitting or metal stand-pipe.



ECHOPULSE® LR20

The general purpose 26 GHz. pulse radar transmitter provides continuous level measurement up to 65.6' (20m) with a 4-20 mA signal output, and is configured via its integral push button display module. The non-contact liquid level sensor is intended for chemical storage or process applications in above or below grade tanks of any material. Select this sensor for challenging application conditions with corrosive media, light surface foam or agitation, higher temperature or pressure, condensation or vapor, and installation in a flange fitting.



ECHOPULSE® LR25

The general purpose 6.3 GHz. pulse radar level transmitter provides continuous level measurement up to 114.8' (35m) with a 4-20 mA signal output, and is configured via its integral push button display module. The non-contact liquid level sensor is intended for chemical and petroleum storage or process applications in above grade metal or reinforced concrete tanks or below grade tanks of any material. Select this sensor for harsh application conditions with corrosive or low dielectric media, heavy surface foam or agitation, higher pressure, steam, condensation or vapor, and installation in a flange fitting. Due to the wider beam angle, special attention should be given to ensure that the sensor is located with unobstructed measurement space.



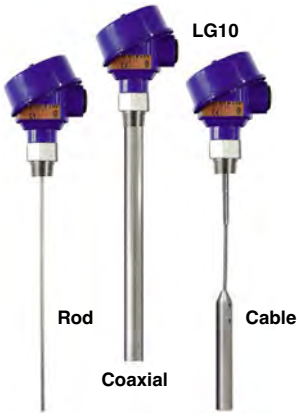
ECHOPULSE® LR30

The general purpose 26 GHz. pulse radar transmitter provides continuous level measurement up to 98.4' (30m) with a 4-20 mA signal output, and is configured via its remote push button display module. The non-contact liquid level sensor is intended for industrial wastewater, municipal storm or sewer lift station, reservoir, river, canal or flume applications located below or above grade. Select this sensor for challenging application conditions that may include light surface foam or agitation, small trash or plant material, wind, condensation or vapor. Each comes with a 32.8' (10m) cable, mounting bracket and display module. The sensor is intended for bracket mount or conduit mount installation suspended above the liquid level.

Guided Wave Radar Level Transmitters

Best for Difficult Small Tank Applications

These guided wave sensors are your contact level measurement solution for small to medium size tank applications with challenging process conditions.



ECHOWAVE® LG10

Offered with three probe types, the general purpose guided wave transmitter provides continuous level measurement up to 18' (5.5m) with a 4-20 mA signal output, and is configured via our free WebCal software. This liquid level sensor is applied in non-turbulent environments with foam, vapor, condensation, temperature or pressure. Select the rod or cable probe for use with clean, dirty, coating or crystallizing liquids in above grade metal or below grade tanks of any material. Select the coaxial probe for use with clean, non-coating or crystallizing liquids in above or below grade tanks of any material. Standard probe lengths may be user cut in the field. The sensor is intended for bulk storage, day tank, skid or machine, IBC or drum, process tank or waste sump applications.

NOTE: Flowline Pulse and Wave Radar Level Transmitters are POA - Price On Application

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DataLoop™ Level Indicator - LI23



The general purpose loop powered level indicator displays engineering units connected in series with one 4-20 mA continuous level transmitter, and is available with two optional relays and an isolated 4-20 mA repeater. For field mount installation, add a single or two indicator NEMA box.

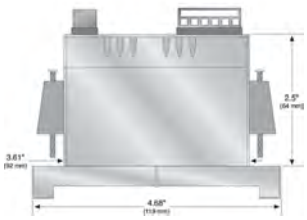
Features:

- LCD main display with secondary unit and bar graph display
- Easy configuration via the push button display module
- Available with 2 latching relays and isolated 4-20 ma repeater
- DIN enclosure with NEMA 4X faceplate and shallow case
- Linear, square root and programmable exponent functions
- Non-volatile memory with security password protection
- Windowed NEMA box accessory for field installations

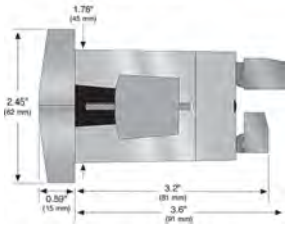
DataLoop™ Level Indicator

Description	Part #	Price $
DataLoop™ Level Indicator, General Purpose	LI23-1001	370.00
DataLoop™ Level Indicator, Intrinsically Safe	LI24-1001	585.00

Top View



Side View



Specifications	
Display type:	LCD, 5-digit top / 8-digit bottom
Display units:	Engineering
Display output:	-9999 to 99999
Display height:	0.7" top / 0.4" bottom
Decimal point:	Floating
Backlight:	LED
Configuration:	Push button
Memory:	Non-volatile
Sensor input:	(1) 4-20 mA transmitter
Loop power:	12-30 VDC
Voltage drop:	1.5 VDC w/o backlight, 4.5 VDC w/backlight
Ambient temp.:	F: -40° to 185°, C: -40° to 85°
Enclosure type:	1/8 DIN, panel mount
Enclosure rating:	NEMA 4X (IP65) faceplate
Enclosure mat'l:	PPE and PS blend
Classification:	General purpose
Compliance:	CE

DataView™ Level Controller - LI55



The general purpose level controller displays engineering units with one 4-20 mA or 0-10 VDC continuous level sensor input and is offered in three configurations with optional 2 or 4 programmable relays, and an isolated 4-20 mA repeater. Each relay can be configured on a single set point (high level alarm or low level alarm) or latched on two set points for automatic fill or empty in simplex (one pump or valve) or duplex (two pumps) level control modes.

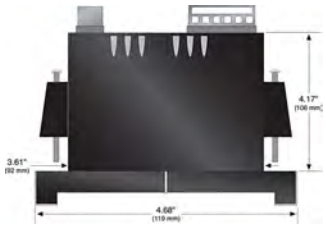
Features:

- LED main display and secondary unit display with relay status
- Easy configuration via the push button display module
- DIN enclosure with NEMA 4X faceplate and shallow case
- Isolated power supply to sensor with 4-20 mA repeater output
- Non-volatile memory with security password protection
- 32-point linearization function for volumetric measurement

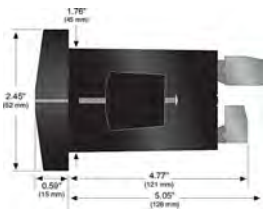
DataView™ Level Controller

Description	Part #	Price $
Controller only, No repeater	LI55-1001	540.00
Controller only, 4-20 mA repeater	LI55-1011	650.00
Controller with 2 Relays, No repeater	LI55-1201	610.00
Controller with 2 Relays, 4-20 repeater	LI55-1211	730.00
Controller with 4 Relays, No repeater	LI55-1401	715.00
Controller with 4 Relays, 4-20 mA repeater	LI55-1411	795.00

Top View



Side View



Specifications	
Display type:	LED, 6-digit
Display units:	Engineering
Display output:	-99,999 to 999,999
Display height:	Main: 0.6" (15mm) high
Secondary:	0.46" (12mm) Decimal point: Floating
LED indication:	Relay status
Configuration:	Push button
Memory:	Non-volatile
Linearization:	2-32 point function
Sensor input:	(1) 4-20 mA or 0-10 VDC
Supply voltage:	85-265 VAC @ 50-60 Hz.
Consumption:	15 watts max.
Sensor supply:	24 VDC ± 5% @ 200 mA
Repeater output:	4-20 mA, 24 VDC ± 5% @ 40 mA supply
Contact type:	-12_1: (2) SPDT relays -14_1: (4) SPDT relays
Contact rating:	3A @ 30 VDC and 250 VAC resistive load
Ambient temp.:	F: -40° to 149°, C: -40° to 65°
Enclosure type:	1/8 DIN, panel mount
Enclosure rating:	NEMA 4X (IP65) faceplate
Enclosure mat.:	Polycarbonate
Classification:	General purpose
Compliance:	CE
Approvals:	UL, cUL listed, E160849, 508 industrial control equipment

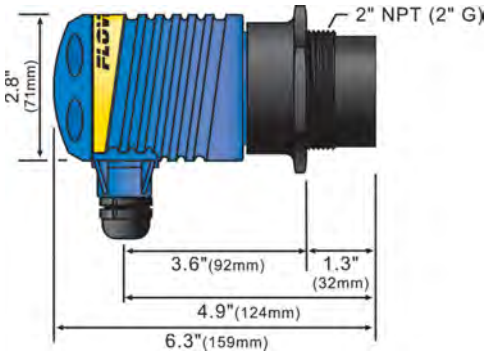
EchoTouch™ IS Ultrasonic Level Transmitter - LU20



CSA approved intrinsically safe for use in hazardous locations, the two-wire ultrasonic transmitter provides non-contact level measurement up to 18' or 5.4m, and is ideally suited for challenging corrosive, slurry or waste liquids. Push button calibrated, the transmitter is typically selected for atmospheric bulk storage, day tank and waste sump applications located within a classified area. Media examples include diesel fuel and sulfuric acid.

EchoTouch™ IS Ultrasonic Level Transmitter

Description	Part #	Price $
Level Transmitter	1875-01	950.00



Features:

- Intrinsically safe transmitter for use in hazardous environments
- LCD digital display indicates level in inches or centimeters
- EasyCal simple push button calibration for all user set points
- Polypropylene enclosure rated NEMA 4X with rugged PVDF transducer
- Adjustable dead band and range filters eliminate false echo returns

Specifications	
Range:	6" to 18.0' (15cm to 5.4m)
Accuracy:	±0.25% of range
Resolution:	0.125" (3mm)
Dead band:	6" (15cm)
Beam width:	8° conical
Configuration:	Push button
Memory:	Non-volatile
Display type:	LCD, 4-digit
Display units:	Inch or cm
Supply voltage:	12-32 VDC
Loop resist.:	600 Ohms @ 24VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA, 20-4 mA
Signal fail-safe:	Reverts to safe state during echo loss
Process temp.:	F: -20° to 140°, C: -4° to 60°
Temp. comp.:	Automatic
Ambient temp.:	F: -40° to 140°, C: -40° to 60°
Pressure:	30 psi (2 bar) @25° C., derated @1.667 psi (.113 bar) per °C above 25°C
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	PP, UL94VO
Conduit entrance:	Single, 1/2" NPT
Trans. material:	PVDF
Process mount:	2" NPT (2" G)
Mount gasket:	FPM
Classification:	Intrinsically Safe
Compliance:	CE
Approvals:	CSA: Class I, Groups A, B, C, D; Class II, Groups E, F, G; Class III; T3C
Parameters:	CSA: Vmax < 32.0 V;Imax < 130 mA; Ca = 0 µF; La = 0 µH
Certificates:	CSA: LR 79326

EchoSafe® Ultrasonic Level Transmitter - XP88/89



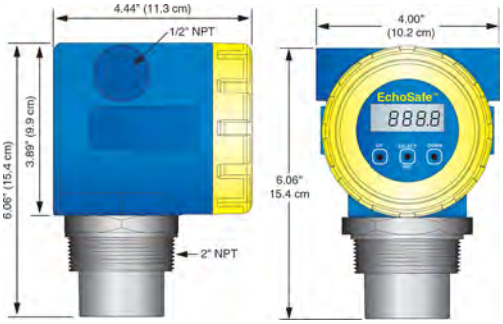
FM approved for hazardous environments, the explosion proof ultrasonic level transmitter provides continuous level measurement up to 32.8' (10m) with a 4-20 mA signal output, and is configured via the integral push button display module. This non-contact liquid level sensor is ideally suited for corrosive, ultrapure, sticky or dirty liquids, and is widely selected for bulk storage, day tank, lift station and process tank level applications located in a classified area.

EchoSafe® XP Ultrasonic Level Transmitter

Description	Part #	Price $
Level Transmitter - 8m Range	XP88-0	1345.00
Level Transmitter - 10m Range	XP89-0	1545.00

Features:

- Explosion proof level transmitter for use in hazardous areas
- Offered in 2 measurement ranges from 26.2' (8m) to 32.8' (10m)
- Configuration is simple via integral push button display module
- Type 4 aluminum XP windowed enclosure with dual conduit ports
- LCD display indicates level in inches, centimeters or percent of span
- Narrow 3" beam width for applications with limited measurement space
- Rugged PVDF transducer and process mounting plug for corrosive liquids
- Automatic temperature compensation for accurate measurement



Specifications	
Range:	XP88: 8" to 26.2' (20cm to 8m) XP89: 8" to 32.8' (20cm to 10m)
Accuracy:	± 0.2% of range
Resolution:	0.079" (2mm)
Dead band:	8" (20cm)
Beam width:	3" (7.6cm)
Configuration:	Push button
Memory:	Non-volatile
Display type:	LCD, 6-digit
Display units:	Inch, cm, percent, feet or meter
Supply voltage:	18-28 VDC (loop)
Loop resistance:	250 Ohms max @ 24 VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Signal fail-safe:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Process temp.:	F: -4° to 140°, C: -20 to 60°
Temp. comp.:	Automatic
Process temp.:	F: -4° to 140°, C: -20 to 60°
Pressure:	MWP = 30 psi (2 bar)
Enclosure rating:	Type 4
Encl. material:	Aluminum
Window material:	Glass
Conduit entrance:	Dual, 1/2" NPT
Trans. material:	PVDF
Process mount:	2" NPT
Mount gasket:	FPM
Classification:	Explosion proof
Compliance:	CE, RoHS
Approvals:	FM: Class I, Div I Groups A, B, C, D Class II, Div I,Groups E, F, G, Class III, Div I

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EchoSonic® II Ultrasonic Level Transmitter with Cable - LU23/27/28/29



Offered in a type 6P enclosure with cable interface, the general purpose ultrasonic level transmitter provides continuous level measurement up to 32.8' (10m) with a 4-20 mA signal output, and is configured via our free Webcal software. This non-contact liquid level sensor is ideally suited for corrosive, ultrapure, sticky or dirty liquids, and is broadly selected for bulk storage, day tank, lift station and process tank level applications.

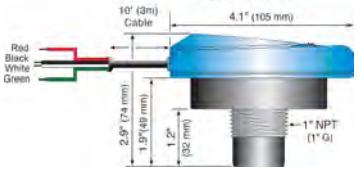
Features:

- Offered in 4 measurement ranges from 9.8' (3m) to 32.8' (10m)
- DSP auto adaptive filters enable plug and play operation optimizing signal output filtering and obstacle recognition
- Submersible type 6P enclosure is ideal for sump and below grade installations
- Configuration is fast and easy via WebCal software and USB adapter
- Narrow 2" or 3" beam width for applications with limited measurement space
- Short 4" or 8" dead band maximizes the measurable filling capacity of the tank
- PVDF transducer and 6P polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement

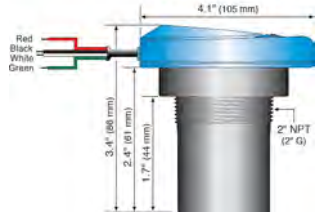
Level Transmitter/Cable with Fob USB® Adapter

Description	Part #	Price $
Range 3m, 1" NPT, Type 6P	LU27-01	580.00
Range 5.5m, 1" NPT, Type 6P	LU23-01	680.00
Range 8m, 2" NPT, Type 6P	LU28-01	780.00
Range 10m, 2" NPT, Type 6P	LU29-01	880.00

LU27 Side View



LU23/28/29 Side View



Specifications	
Range:	LU27: 4" to 9.8' (10cm to 3m) LU23: 8" to 18.0' (20cm to 5.5m) LU28: 8" to 26.2' (20cm to 8m) LU29: 8" to 32.8' (20cm to 10m)
Accuracy:	± 0.2% of range
Resolution:	LU27: 0.019" (0.5mm), LU23: 0.039" (1mm), LU28/29: 0.079" (2mm)
Dead band:	LU27: 4" (10cm), LU23/28/29: 8" (20cm)
Beam width:	LU27: 2" (5cm), LU23/28/29: 3" (7.6cm)
Configuration:	WebCal® PC, Windows® USB 2.0
Memory:	Non-volatile
Supply voltage:	24 VDC (loop)
Consumption:	0.5W
Loop resistance:	500 ohms @ 24 VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Signal fail-safe:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Process temp.:	F: -4° to 140°, C: -20° to 60°
Temp. comp.:	Automatic
Ambient temp.:	F: -31° to 140°, C: -35° to 60°
Pressure:	MWP = 30 PSI (2 bar)
Enclosure rating:	Type 6P, encapsulated, corrosion resistant & submersible
Encl. material:	Polycarbonate
Trans. material:	PVDF
Cable jacket mat:	Polyurethane
Cable type:	4-conductor, shielded
Cable length:	10' (3m)
Process mount:	LU27: 1" NPT (1" G), LU23/28/29: 2" NPT (2" G)
Mount gasket:	FPM
Classification:	General purpose
Compliance:	CE, RoHS
Approvals:	cFMus

EchoSpan® Ultrasonic Level Transmitter - LU80/81/83/84



The general purpose ultrasonic level transmitter provides continuous level measurement up to 32.8' (10m) with a 4-20 mA signal output, and is configured via its integral push button display module. This non-contact liquid level sensor is ideally suited for corrosive, ultrapure, sticky or dirty liquids, and is broadly selected for bulk storage, day tank, lift station and process tank level applications.

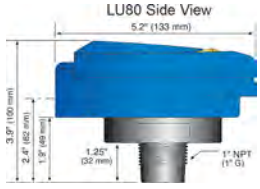
Features:

- Offered in 4 measurement ranges from 9.8' (3m) to 32.8' (10m)
- Configuration is simple via integral push button display module
- LCD display indicates level in inches, centimeters and percentages
- Narrow 2" or 3" beam width for applications with limited measurement space
- Fail-safe intelligence and diagnostic feedback for simple troubleshooting
- PVDF transducer and NEMA 4X polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement

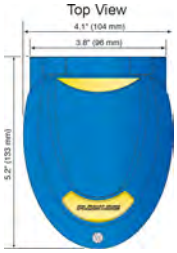
EchoSpan® Ultrasonic Level Transmitter

Description	Part #	Price $
Range 3m (9.8'), 1" NPT	LU80-5101	695.00
Range 5.5m (18.0'), 2" NPT	LU81-5101	795.00
Range 8m (26.2'), 2" NPT	LU83-5101	895.00
Range 10m (32.8'), 2" NPT	LU84-5101	995.00

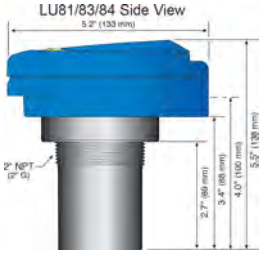
LU80 Side View



Top View



LU81/83/84 Side View



Specifications	
Range:	LU80: 4" to 9.8' (10cm to 3m) LU81: 8" to 18.0' (20cm to 5.5m) LU83: 8" to 26.2' (20cm to 8m) LU84: 8" to 32.8' (20cm to 10m)
Accuracy:	± 0.2% of range
Resolution:	LU80: 0.019" (0.5mm), LU81/83: 0.039" (1mm), LU84: 0.078" (2mm)
Dead band:	LU80: 4" (10cm), LU81/83: 8" (20cm) LU84: 12" (30cm)
Beam width:	LU80: 2" (5cm), LU81/83/84: 3" (7.6cm)
Configuration:	Push button
Memory:	Non-volatile
Display type:	LCD, 6-digit
Display units:	Inch, cm and percent
Supply voltage:	12-28 VDC
Loop resistance:	500 ohms @ 24 VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Signal fail-safe:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Process temp.:	F: -4° to 140°, C: -20° to 60°
Temp. comp.:	Automatic
Ambient temp.:	F: -31° to 140°, C: -35° to 60°
Pressure:	MWP = 30 PSI (2 bar)
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	Polycarbonate
Encl. hardware:	Brass and stainless
Enclosure vent:	Water tight membrane
Conduit entrance:	Dual, 1/2" NPT
Trans. material:	PVDF
Process mount:	LU80: 1" NPT (1" G), LU81/83/84: 2" NPT (2" G)
Mount gasket:	FPM
Classification:	General purpose
Compliance:	CE, RoHS

EchoPod® Ultrasonic Level Transmitter - DL10



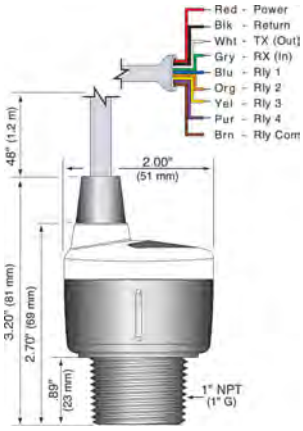
The general purpose ultrasonic level transmitter provides continuous level measurement up to 49.2” (1.25m) with a 4-20 mA signal output, and is configured via our free WebCal software. This non-contact liquid level sensor is ideally suited for corrosive, sticky or dirty liquids, and is broadly selected for small day tank, skid, IBC, sump and process tank level applications.

EchoPod® DL10 Ultrasonic Level Transmitter

Description	Part #	Price $
Level Transmitter	DL10-00	350.00
Level Transmitter with Fob USB® Adapter	DL10-01	395.00

Features:

- Continuous non-contact level measurement up to 49.2” (1.25m)
- 4-20 mA output for longer signal distances up to 1000’ (300m)
- Configuration is fast and easy via WebCal software and USB adapter
- Narrow 2” beam width and short 2” dead band optimized for small tanks
- PVDF transducer and 6P polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement



Specifications	
Range:	49.2” (1.25m)
Accuracy:	0.125” (3mm)
Resolution:	0.019” (0.5mm)
Dead band:	2” (5cm)
Beam width:	2” (5cm)
Configuration:	WebCal® PC, Windows® USB 2.0
Memory:	Non-volatile
Supply voltage:	24 VDC (loop)
Consumption:	0.5W
Loop resist.:	400Ω max
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Signal fail-safe:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Process temp.:	F: 20° to 140°, C: -7° to 60°
Temp. comp.:	Automatic
Ambient temp.:	F: -31° to 140°, C: -35° to 60°
Pressure:	MWP = 30 PSI (2 bar)
Enclosure rating:	Type 6P, encapsulated, corrosion resistant & submersible
Encl. material:	Polycarbonate
Strain relief mat.:	Santoprene®
Trans. material:	PVDF
Cable jacket mat.:	Polyurethane
Cable type:	9-conductor, shielded
Cable length:	48” (1.2m)
Process mount:	1” NPT (1” G)
Mount gasket:	FPM
Classification:	General purpose
Compliance:	CE, RoHS
Approvals:	cFMus

EchoPod® Multi-Function Ultrasonic Transmitter - DL14



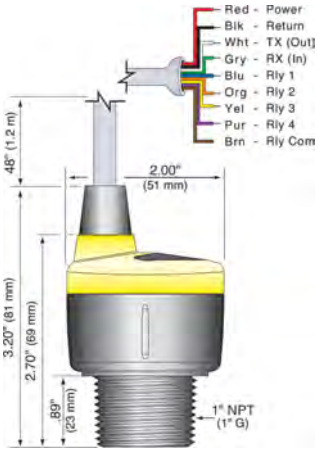
The general purpose ultrasonic level transmitter provides continuous level measurement up to 49.2” (1.25m) with a 4-20 mA signal output, and is configured via our free Webcal software. The embedded level controller can lower cost by replacing external control hardware. This non-contact liquid level sensor is ideally suited for corrosive, sticky or dirty liquids, and is widely selected for small day tank, skid, IBC, sump and process tank level applications.

EchoPod® DL14 Multi-Function Ultrasonic Transmitter

Description	Part #	Price $
Level Transmitter, Switch & Controller	DL14-00	400.00
Level Transmitter, Switch & Controller with Fob USB® Adapter	DL14-01	445.00

Features:

- Switch and control functions with continuous level measurement output up to 49.2” (1.25m)
- Configuration is fast and easy via WebCal software and USB adapter
- Narrow 2” beam width and short 2” dead band optimized for small tanks
- Four (4) programmable relays rated @ 1A / 60VA for switch, pump or valve control and fail-safety
  - 1 pump or valve with 3 alarms
  - 2 pumps (lead-lag) with 2 alarms
  - 2 pumps (duplexing) with 2 alarms
  - 4 independent switch point alarms
- PVDF transducer and 6P polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement



Specifications	
Range:	49.2” (1.25m)
Accuracy:	0.125” (3mm)
Resolution:	0.019” (0.5mm)
Dead band:	2” (5cm)
Beam width:	2” (5cm)
Configuration:	WebCal® PC, Windows® USB 2.0
Memory:	Non-volatile
Supply voltage:	24 VDC (loop)
Consumption:	0.5W
Loop resist.:	400Ω max
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Signal fail-safe:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Contact type:	(4) SPST relays
Contact rating:	60 VA, 1A maximum
Contact fail-safe:	Power loss: Hold last, Power on: Open, close or hold last
Hysteresis:	Selectable
Process temp.:	F: 20° to 140°, C: -7° to 60°
Temp. comp.:	Automatic
Ambient temp.:	F: -31° to 140°, C: -35° to 60°
Pressure:	MWP = 30 PSI (2 bar)
Enclosure rating:	Type 6P, encapsulated, corrosion resistant & submersible
Encl. material:	Polycarbonate
Strain relief mat.:	Santoprene®
Trans. material:	PVDF
Cable jacket mat.:	Polyurethane
Cable type:	9-conductor, shielded
Cable length:	48” (1.2m)
Process mount:	1” NPT (1” G)
Mount gasket:	FPM
Classification:	General purpose
Compliance:	CE, RoHS
Approvals:	cFMus

EchoPod® Multi-Function Ultrasonic Transmitter - DL24



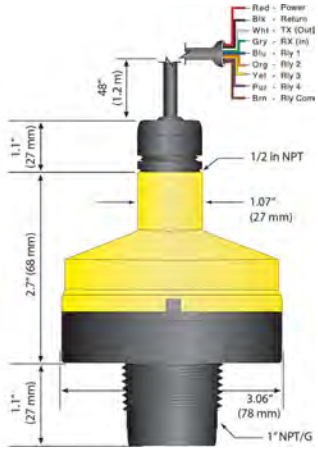
The general purpose ultrasonic level transmitter provides continuous level measurement up to 9.8' (3m) with a 4-20 mA signal output, and is configured via our free Webcal software. The level sensor has 4 programmable relays with selectable hysteresis and fail-safe logic. The embedded level controller can lower cost by replacing external control hardware. This non-contact liquid level sensor is ideally suited for corrosive, sticky or dirty liquids, and is widely selected for day tank, skid, IBC, sump and process tank level applications.

EchoPod® DL24 Multi-Function Ultrasonic Transmitter

Description	Part #	Price $
Level Transmitter, Switch & Controller	DL24-00	500.00
Level Transmitter, Switch & Controller with Fob USB® Adapter	DL24-01	545.00

Features:

- Switch and control functions with continuous level measurement output up to 9.8' (3m)
- Configuration is fast and easy via WebCal software and USB adapter
- Narrow 2" beam width and short 4" dead band optimized for small tanks
- Four (4) programmable relays rated @ 1A / 60VA for switch, pump or valve control and fail-safety
  - 1 pump or valve with 3 alarms
  - 2 pumps (lead-lag) with 2 alarms
  - 2 pumps (duplexing) with 2 alarms
  - 4 independent switch point alarms
- PVDF transducer and 6P polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement



Specifications	
Range:	9.8' (3m)
Accuracy:	± 0.2% of range
Resolution:	0.039" (1mm)
Dead band:	4" (10cm)
Beam width:	2" (5cm)
Configuration:	WebCal® PC, Windows® USB 2.0
Memory:	Non-volatile
Supply voltage:	24 VDC (loop)
Consumption:	0.5W
Loop resist.:	400Ω max
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Signal fail-safe:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Contact type:	(4) SPST relays
Contact rating:	60 VA, 1A maximum
Contact fail-safe:	Power loss: Hold last, Echo loss: Open, close or hold last
Hysteresis:	Selectable
Process temp.:	F: 20° to 140°, C: -7° to 60°
Temp. comp.:	Automatic
Ambient temp.:	F: -31° to 140°, C: -35° to 60°
Pressure:	MWP = 30 PSI (2 bar)
Enclosure rating:	Type 6P, encapsulated, corrosion resistant & submersible
Encl. material:	Polycarbonate
Trans. material	PVDF
Cable jacket mat.:	Polyurethane
Cable type:	9-conductor, shielded
Cable length:	48" (1.2m)
Process mount:	1" NPT (1" G)
Mount gasket:	FPM
Classification:	General purpose
Compliance:	CE, RoHS
Approvals:	cFMus

FloaTek™ Float Level Transmitter - LV55



The general purpose float level transmitter provides continuous level measurement up to 6.5' (2m) with a 4-20 mA signal output, and is factory configured to your selected dimension. This stainless steel liquid level sensor is well suited for high temperature or pressure tank level applications with relatively clean liquids such as water, diluted chemicals and light weight oils. Application examples include boilers and process vessels.

Features:

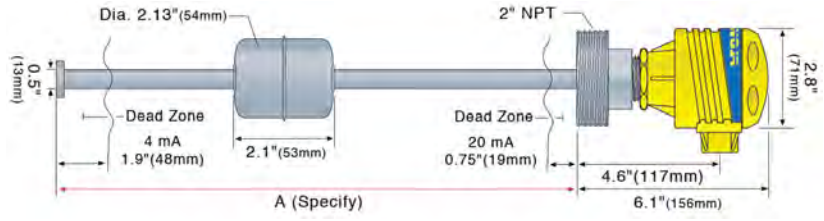
- High pressure or temperature level measurement up to 6.5' (2m)
- Rugged 316 stainless steel float guide and process mounting plug
- Assembled to your guide length and measurement span dimensions
- Polypropylene junction box rated NEMA 4X with conduit port and terminal strip

FloaTek™ Float Level Transmitter

Description	Part #	Price $
FloaTek™ Level Transmitter, Custom	LV55-S001	520.00

Junction Box





Specifications	
Range:	12" to 6.5' (30cm to 2m)
Accuracy:	0.25% span in water
Configuration:	None, fixed span
Orientation:	± 20° from vertical
Specific gravity:	0.55 minimum
Supply voltage:	10 to 30 VDC
Loop resist.:	600 Ohms @ 24 VDC
Signal output:	4-20 mA, two-wire
Process temp.:	F: -40° to 185° C: -40° to 85°
Ambient temp.:	F: -40° to 140° C: -40° to 60°
Pressure:	200 psi (13.8 bar)
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat.:	PP, UL94VO
Conduit entrance:	Single, 1/2" NPT
Process mount:	2" NPT
Guide-float mat:	316 SS
Classification:	General purpose
Compliance:	CE

Smart Trak™ with Compact Level Controller



The general purpose level switch package provides automatic tank filling or emptying up to 10' (3m) between two adjustable level switch points. The compact level controller with optional strobe provides one latching 16A relay for pump or valve control. Offered in three level sensor technologies, select the type based upon your application media. This polypropylene liquid level switch package is widely selected for sump, process and day tank level applications.

Features:

- Fail-safe relay control of pumps or valves with 0-60 second delay
- Offered in 3 sensing technologies for broad application coverage: ultrasonic, vibration & buoyancy
- Easy setup with LED indicators for sensor, power and relay status
- Rugged polypropylene construction for use in corrosive liquid environments
- Adjustable level switch cars enable sensor adjustment in the field
- Invert switch changes relay state from NO to NC without rewiring

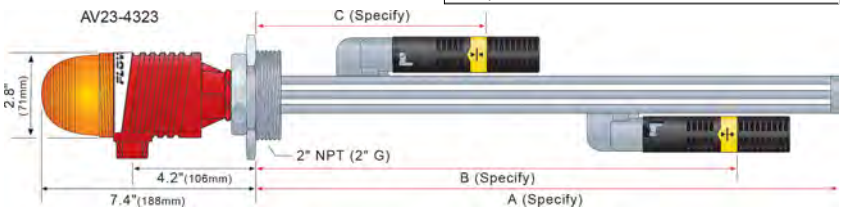
Smart Trak™ with Compact Level Controller

Description	Part #	Price $
Ultrasonic, PP, 2" NPT	2288	1015.00
Ultrasonic, with Strobe, PP, 2" NPT	2290	1065.00
Buoyancy, PP, 2" NPT	2289	685.00

Specifications	
Length:	8" to 10' (20cm to 3m)
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Orientation:	± 20° vertical
Switch points:	2 (field adjustable)
LED indication:	Power, relay & sensor
Supply voltage:	120 / 240 VAC @ 50-60 Hz
Consumption:	0.25A maximum
Strobe type:	-431X: N/A-432X: Xenon tube
Strobe flash:	-431X: N/A-432X: 1 per second
Contact type:	(1) SPDT relay, latching
Contact rating:	250 VAC @ 10A
Contact output:	Selectable NO / NC
Contact delay:	0-60 seconds
Contact latch:	Selectable ON / OFF
Process temp.:	F: -40° to 176°, C: -40° to 80°
Ambient temp.:	F: -40° to 140°, C: -40° to 60°
Pressure:	Atmospheric
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat.:	-432X: PP, UL94VO & PC -431X: PP, UL94VO
Conduit entrance:	1/2" NPT
Wetted material:	PP (glass fill)
Process mount:	2" NPT (2" G)
Classification:	General purpose
Compliance:	CE

Controller





Smart Trak™ with Compact Junction Box



The general purpose level switch package provides reliable, multi-point liquid level detection up to 10' (3m) with 1-4 adjustable level switch points and a compact junction box for integral wiring termination. Available in three level sensor technologies, select the sensor type based upon your application media. This PP liquid level switch package is widely applied in process, sump and day tank level applications for automatic filling or emptying with high level alarm and/or low level alarm.

Features:

- Rugged polypropylene multi-point level switch package for corrosive liquids
- 60VA relay or 15VA dry contact selectable NO or NC via wiring
- Offered in 3 sensing technologies for broad application coverage: ultrasonic, vibration & buoyancy
- Adjustable level switch cars enable sensor adjustment in the field
- Polypropylene enclosure rated NEMA 4X with swivel base and terminal strip

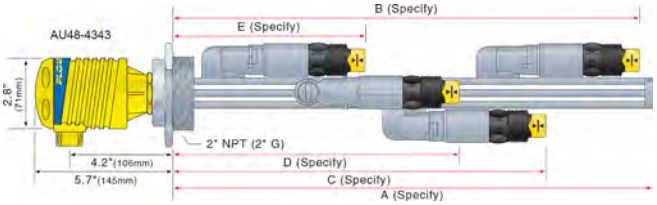
Smart Trak™ with Compact Junction Box

Description	Part #	Price $
Ultrasonic, 1 x SPST Relay, PP, 2" NPT	AU18-4343	530.00
Ultrasonic, 2 x SPST Relay, PP, 2" NPT	AU28-4343	845.00
Ultrasonic, 3 x SPST Relay, PP, 2" NPT	AU38-4343	1160.00
Ultrasonic, 4 x SPST Relay, PP, 2" NPT	AU48-4343	1475.00
Buoyancy, 1 x SPDT Reed, PP, 2" NPT	AV16-4343	365.00
Buoyancy, 2 x SPDT Reed, PP, 2" NPT	AV26-4343	515.00
Buoyancy, 3 x SPDT Reed, PP, 2" NPT	AV36-4343	665.00
Buoyancy, 4 x SPDT Reed, PP, 2" NPT	AV46-4343	815.00

Specifications	
Length:	8" to 10' (20cm to 3m)
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Orientation:	± 20° vertical
Switch points:	1-4 (field adjustable)
Supply voltage:	AVX6: N/A, AUX8: 12-36 VDC, AZX8: 12-30 VDC
Consumption:	AVX6: N/AAUX8 / AZX8: 100 mA max
Contact type:	AVX6: SPDT reed(s) AUX8 / AZX8: SPST relays
Contact rating:	AVX6: 15 VA, 0.25A max. AUX8 / AZX8: 60 VA, 1A max.
Contact output:	Selectable NO / NC
Process temp.:	F: -40° to 176°, C: -40° to 80°
Ambient temp.:	F: -40° to 140°, C: -40° to 60°
Pressure:	Atmospheric
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat.:	PP, UL94VO
Terminal strip:	12-pole, socket
Conduit entrance:	1/2" NPT
Wetted material:	PP (glass fill)
Process mount:	2" NPT (2" G)
Classification:	General purpose
Compliance:	CE

Junction Box





ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 010319

Switch-Pak™ with Compact Level Controller - AU13/AV13/AZ13



The general purpose level switch package provides reliable, high or low liquid level detection with a 16A compact relay controller for pump or valve control. The optional flash alarm brings attention to alarm conditions. Available in three level sensor technologies, select the sensor type based upon your application media. This polypropylene or PVDF liquid level switch package is broadly applied in bulk storage, sump and day tank level applications for high level control or low level control.

Features:

- PP or PVDF single-point level switch package for corrosive liquids
- Fail-safe relay control of pumps or valves with 0-60 second delay
- Offered in 3 sensing technologies for broad application coverage: ultrasonic, vibration & buoyancy
- Polypropylene enclosure rated NEMA 4X with swivel base for conduit alignment
- Optional strobe brings immediate attention to level alarm conditions
- Invert switch changes relay state from NO to NC without rewiring

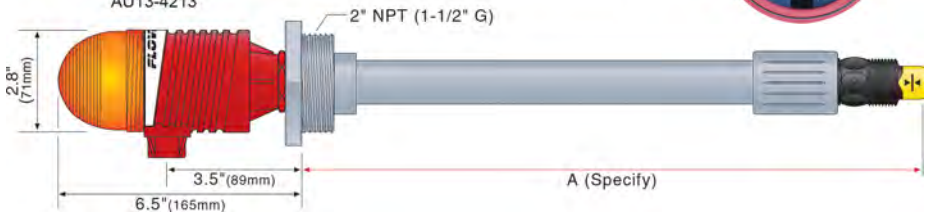
Switch-Pak™ with Compact Level Controller

Description	Part #	Price $
Ultrasonic, PP, with Strobe, 2" NPT	2270	690.00
Ultrasonic, PP, 2" NPT	2274	640.00
Ultrasonic, PVDF, with Strobe, 2" NPT	2271	855.00
Ultrasonic, PVDF, 2" NPT	2275	805.00
Buoyancy, PP, with Strobe, 2" NPT	2272	525.00
Buoyancy, PP, 2" NPT	2276	475.00
Buoyancy, PVDF, with Strobe, 2" NPT	2273	690.00
Buoyancy, PVDF, 2" NPT	2277	640.00

Controller



AU13-4213



Specifications	
Length:	6" to 10' (15cm to 3m)
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Orientation:	± 20° vertical
Switch points:	1 (factory set)
LED indication:	Sensor, power & relay
Supply voltage:	120 / 240 VAC @ 50-60 Hz.
Consumption:	0.25A maximum
Strobe type:	-X22X: N/A-X21X: Xenon tube
Strobe flash:	-X22X: N/A-X21X: 1 per second
Contact type:	(1) SPDT relay
Contact rating:	250 VAC @ 16A
Contact output:	Selectable NO / NC
Contact delay:	0-60 seconds
Process temp.:	F: -40° to 176°, C: -40° to 80°
Ambient temp.:	F: -40° to 140°, C: -40° to 60°
Pressure:	AV13: 25 psi (1.7 bar) AU13: 150 psi (10 bar)
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	-X21X: PP, UL94VO & PC -X22X: PP, UL94VO
Conduit entrance:	1/2" NPT
Wetted material:	AV13-42XX: PP AU13-42XX: PP AU13-52XX: PVDF AU13-52XX: PVDF / PFA AZ13-42XX: PP-Ryton®
Process mount:	-X2X3: 2" NPT, -X2X7: 1 1/2" G
Classification:	General purpose
Compliance:	CE

5

Switch-Pak™ with Compact Junction Box



The general purpose level switch package provides reliable, high or low liquid level detection with one relay or reed switch output and a compact junction box for integral wiring termination. Available in three level sensor technologies, select the sensor type based upon your application media. This PP or PVDF liquid level switch package is broadly applied in bulk storage, sump and day tank level applications as a high level alarm or low level alarm.

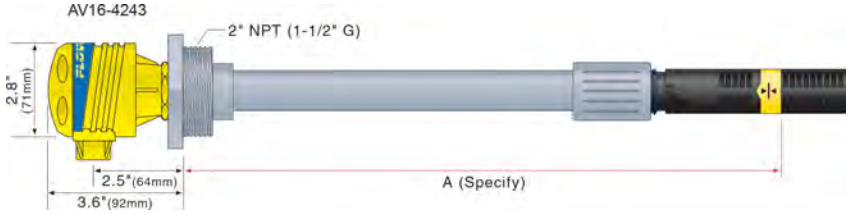
Features:

- Polypropylene or PVDF single-point level switch package for corrosive liquids
- 60VA relay or 15VA dry contact selectable NO or NC via wiring
- Offered in 3 sensing technologies for broad application coverage: ultrasonic, vibration & buoyancy
- Polypropylene enclosure rated NEMA 4X with swivel base and terminal strip

Switch-Pak™ with Compact Junction Box

Description	Part #	Price $
Ultrasonic, SPST Relay, PP, 2" NPT	AU18-4243	490.00
Ultrasonic, SPST Relay, IS, PFA, 2" NPT	AU18-5243	655.00
Buoyancy, SPST Relay, PP, 2" NPT	AV16-4243	295.00
Buoyancy, SPST Relay, IS, PVDF, 2" NPT	AV16-5243	440.00

AV16-4243



Specifications	
Length:	6" to 10' (15cm to 3m)
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Orientation:	± 20° vertical
Switch points:	1 (factory set)
Supply voltage:	AV16: N/A, AU18: 12-36 VDC AZ18: 12-30 VDC
Consumption:	AV16: N/A, AU18 / AZ18: 25 mA max
Contact type:	AV16: (1) SPDT reed AU18 / AZ18: (1) SPST relay
Contact rating:	AV16: 15 VA, 0.25A max AU18 / AZ18: 60 VA, 1A max.
Contact output:	Selectable NO / NC
Process temp.:	F: -40° to 176°, C: -40° to 80°
Ambient temp.:	F: -40° to 140°, C: -40° to 60°
Pressure:	AV16: 25 psi (1.7 bar) AU18 / AZ18: 150 psi (10 bar)
Enclosure rating:	NEMA 4X (IP65)
Enclosure mat.:	PP, UL94VO
Terminal strip:	6-pole, socket
Conduit entrance:	1/2" NPT
Wetted material:	AV16-424X: PP, AU18-424X: PP, AU18-524X: PVDF, AZ18-424X: PP-Ryton®
Process mount:	-X243: 2" NPT, -X247: 1 1/2" G
Classification:	General purpose
Compliance:	CE



Junction Box

Switch-Tek™ Ultrasonic Level Switch



CSA approved for hazardous environments, the intrinsically safe ultrasonic point level switch provides reliable liquid level detection of chemical, solvent, hydrocarbon and petroleum based liquids with a 1A relay output. Media examples include fuel, acetone and hydrochloric acid. The submersible polypropylene or PFA liquid level sensor is universally mounted through the tank wall or inside the tank as a high level alarm or low level alarm.

Features:

- CSA approved intrinsically safe for use in hazardous environments
- Submersible polypropylene or PFA sensor and cable for corrosive liquids
- 60VA relay selectable NO or NC via power supply wiring polarity
- Compatible with Smart Trak and Switch-Pak installation fittings





Specifications	
Orientation:	Universal
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	GP: 60 VA, IS: 32 VDC @ 0.5A
Contact output:	Selectable NO / NC
Process temp.:	F: -40° to 176°, C: -40° to 80°
Pressure:	150 psi (10 bar) @ 25°C., derated @ 1.667psi (0.113 bar) per °C. above 25° C.
Sensor rating:	-1XX5: NEMA 6 (IP68) -2XX5: NEMA 4X (IP65)
Sensor material:	-1XX5: PP-2XX5: PFA
Cable jack. mat.:	-1XX5: PP-2XX5: PFA
Cable type:	4-conductor, #22 AWG, shielded
Cable length:	10' (3m)
Process mount:	3/4" NPT (3/4"" G / Rp)
Mount. gasket:	FPM
Classification:	Intrinsically safe
Certificate:	CSA, LR 79326
Compliance:	CE
Approvals:	Class I, Groups A, B, C & D; Class II, Groups E, F & G; Class III
Parameters:	Vmax = 32V, Imax = 300mA, Pmax = 1.3W, Ci = 0 µF, Li = 0 µH

Switch-Tek™ Ultrasonic Level Switch

Description	Part #	Price $
PP, Short, 3/4" NPT	1974	285.00
PP, Long, 3/4" NPT	1976	295.00
PFA, Short, 3/4" NPT	1975	405.00
PFA, Long, 3/4" NPT	1977	415.00

Switch-Tek™ Vibration Level Switch



The general purpose vibration point level switch provides reliable liquid level detection of dirty liquids such as those with light to medium coating, scaling or foaming characteristics with a 1A relay output. Media examples include wastewater, diluted caustic soda and light weight oil. For optimum performance, the liquid level switch automatically adjusts for coating build up, and if necessary, outputs a proactive maintenance alarm to request cleaning. The submersible Ryton® liquid level sensor is universally mounted through the tank wall or inside the tank as a high level alarm or low level alarm.

Features:

- Automatic coating adjustment optimizes sensor performance
- Submersible Ryton® sensor with polypropylene cable for corrosive liquids
- Coating alarm proactively alerts user when cleaning is required
- 60VA relay selectable NO or NC via power supply wiring polarity
- Compatible with Smart Trak and Switch-Pak installation fittings



Specifications	
Orientation:	Universal
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Supply voltage:	12-28 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	60 VA, 1A maximum
Contact output:	Selectable NO / NC
Maint. alarm:	NPN transistor, 10 mA maximum
Process temp.:	F: -40° to 176°, C: -40° to 80°
Pressure:	150 psi (10 bar) @ 25°C., derated @ 1.667psi (0.113 bar) per °C. above 25° C.
Sensor rating:	NEMA 6 (IP68)
Sensor material:	Ryton®
Grommet mat.:	FPM
Cable jack. mat.:	Polypropylene
Cable type:	5-conductor, shielded
Cable length:	10' (3m)
Process mount:	3/4" NPT (3/4" G)
Mount. gasket:	FPM
Classification:	General purpose
Compliance:	CE

Switch-Tek™ Vibration Level Switch

Description	Part #	Price $
Vibration Level Switch, 3/4" NPT	1973	305.00

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770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 010319

Switch-Tek™ Vertical Buoyancy Level Switch



The general purpose buoyancy point level switch provides reliable liquid level detection of relatively clean water and chemical solutions with a 15VA reed switch output. Media examples include boric acid and ultrapure water. The baffle body eliminates level switch chatter caused by turbulence. The submersible polypropylene or PVDF liquid level sensor is mounted vertically inside the tank as a high level alarm or low level alarm.

Features:

- Baffle body and stabilized float dampen out switch chatter
- Submersible polypropylene or PVDF sensor and cable for corrosive liquids
- 15VA dry contact selectable NO or NC state via wiring selection
- Compatible with Smart Trak and Switch-Pak installation fittings

Specifications	
Orientation:	± 20° vertical
Accuracy:	± 2mm in water
Repeatability:	± 1mm in water
Specific gravity:	0.8 minimum
Contact type:	(1) SPDT reed
Contact rating:	15 VA, 0.25A maximum
Contact output:	Selectable NO / NC
Process temp.:	F: -40° to 176°, C: -40° to 80°
Pressure:	25 psi (2 bar) @ 25° C, derated @ 1.667 psi (0.113 bar) per °C above 25° C
Sensor rating:	NEMA 6 (IP68)
Sensor material:	-13X1: Polypropylene, -53X1: PVDF
Cable jack. mat.:	-13X1: Polypropylene, -53X1: PFA
Cable type:	3-conductor, shielded
Cable length:	10' (3m)
Process mount:	3/4" NPT (3/4" Rp)
Classification:	General purpose
Compliance:	CE



Switch-Tek™ Vertical Buoyancy Level Switch

Description	Part #	Price $
Vertical Buoyancy Level Switch, PP, 3/4" NPT	1900	120.00
Vertical Buoyancy Level Switch, PVDF, 3/4" NPT	1901	240.00

5

Switch-Tek™ Optic Leak Detection Switch

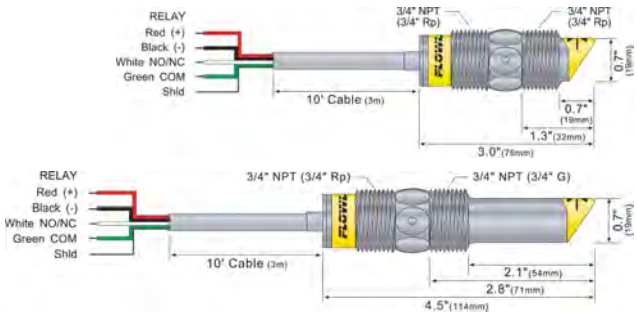


The general purpose optic leak switch provides reliable leak detection in and around secondary containment sumps, tanks and piping systems with a 1A relay output. Media examples include sulfuric acid, water and diesel. The submersible polypropylene or PFA liquid leak detection sensor is mounted through the wall or within the interstitial space.

Features:

- Submersible polypropylene or PFA sensor and cable for corrosive liquids
- 60VA relay selectable NO or NC via power supply wiring polarity
- Fail-safe leak sensor inverts wet to alert user for maintenance

Specifications	
Orientation:	Universal
Accuracy:	± 1mm in water
Repeatability:	± 0.5mm in water
Supply voltage:	12-36 VDC
Consumption:	25 mA maximum
Contact type:	(1) SPST relay
Contact rating:	60 VA, 1A maximum
Contact output:	Selectable NO / NC
Process temp.:	F: -40° to 176°, C: -40° to 80°
Pressure:	150 psi (10 bar) @ 25° C, derated @ 1.667 psi (0.113 bar) per °C above 25° C
Sensor rating:	NEMA 6 (IP68)
Sensor material:	-1XX5: Polypropylene, -2XX5: PFA
Cable jack. mat.:	-1XX5: Polypropylene, -2XX5: PFA
Cable type:	4-conductor, shielded
Cable length:	10' (3m)
Process mount:	3/4" NPT (3/4" G)
Mount. gasket:	FPM
Classification:	General purpose
Compliance:	CE

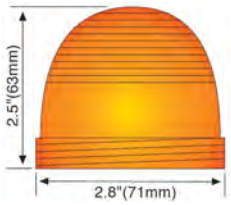


Switch-Tek™ Optic Leak Detection Switch

Description	Part #	Price $
PP, Short, 3/4" NPT	1987	175.00
PP, Long, 3/4" NPT	1989	185.00
PFA, Short, 3/4" NPT	1988	295.00
PFA, Long, 3/4" NPT	1990	305.00

Strobe Alert™ Compact Flash Alarm





Offered in both AC and DC powered configurations, the compact flash alarm brings immediate attention to process alarm conditions. Strobe Alert is compatible with any of our round level or flow compact relay controllers and junction boxes. Select the appropriate supply voltage for your application.

Features:

- High intensity amber flash alarm visually alerts on-site personnel
- Rugged NEMA 4X polycarbonate enclosure for harsh environments
- Mounts directly on any Flowline round compact enclosure



LC06-10X1
Junction Box



Strobe shown mounted on
LC10 relay controller

Specifications	
Supply voltage:	LC09: 12-36 VDC LC10: 120 VAC @ 50-60 Hz. LC10-E: 240 VAC @ 50-60 Hz.
Consumption:	3 watts max.
Strobe color:	Amber
Strobe type:	Xenon tube
Strobe flash:	1 per second
Strobe life:	10M cycles
Electronics temp.:	F: -40˚ to 158˚, C: -40˚ to 70˚
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	Polycarbonate
Encl. compatibility:	LC05, LC06, LC10, LC11 and LC30 enclosures
Wire type:	2-wire, #22 AWG
Wire length:	5" (12.7 cm)
Wire jacket mat.:	Polymeric
Classification:	General purpose
Certificate:	CSA: LR 79326

Strobe Alert™ Compact Flash Alarm

Description	Part #	Price $
Compact Flash Alarm, 12-36 VDC, PC	LC09-1004	130.00
Compact Flash Alarm, 120 VAC, PC	LC10-1004	130.00

5

Switch-Pro™ Compact Junction Box



Offered in small and large sizes, the compact junction box is ideal for sensor wiring and conduit termination. The junction box is universally compatible with our level switch, flow switch and fitting products. The small enclosure has 6 poles and is typically used with a single level or flow switch sensor. The large enclosure has 12 poles for multiple level switches and is typically used with Smart Trak.

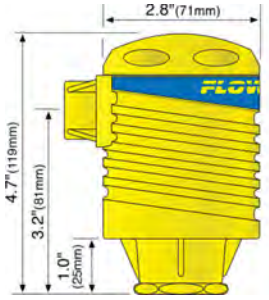
Features:

- Polypropylene enclosure rated NEMA
- 4X with 300° conduit swivel base
- Compatible with Flowline sensors, installation fittings and alarms
- Removable terminal strips with upper and lower screw poles
- Offered in large and small sizes for single and multi-point installations

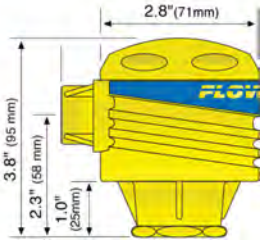
Specifications	
Sensor inputs:	LC05: 1-4 sensors, LC06: 1-2 sensors
Terminal strip:	LC05: 12 pole socket LC06: 6 pole socket
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	PP, UL94VO
Encl. mount:	1001: 3/4" NPT, 1051: 3/4" Rp
Encl. rotation:	300˚ swivel base
Conduit entrance:	Single, 1/2" NPT
Temp. rating:	F: -40˚ to 158˚, C: -40˚ to 70˚C
E compliance:	EN 61326 EMC, EN 61010-1 safety

Switch-Pro™ Compact Junction Box

Description	Part #	Price $
1-4 Sensor Junction Box, Term-Strip, 3/4" NPT, PP	2037	75.00
1-2 Sensor Junction Box, Term-Strip, 3/4" NPT, PP	2038	65.00



LC05



LC06



LC05 Junction Box



LC06 Junction Box

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Smart Trak™ Installation Fitting

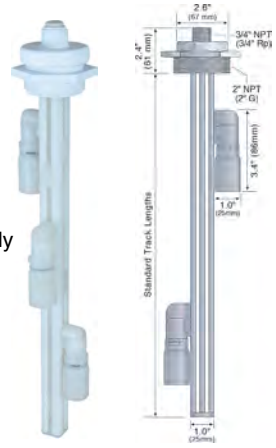


The adjustable multi-point fitting enables users to install and adjust up to four Flowline level switches to any depth along the entire length of track. The fitting is typically applied in atmospheric day tanks, process vessels and waste sumps. Select the appropriate track length based upon your tank height and add one sensor car kit for each sensor to be installed on Smart Trak.

Features:

- Adjustable level sensor cars make setup or changes fast and simple
- Standard track lengths are easily cut to applied length in the field
- Rugged polypropylene construction for use with challenging corrosive liquids

Typical Assembly



Smart Trak™ Installation Fitting

Description	Part #	Price $
2' Track, 2" NPT Plug, 3/4" NPT Nipple, PP	1924	80.00
4' Track, 2" NPT Plug, 3/4" NPT Nipple, PP	1925	120.00
6' Track, 2" NPT Plug, 3/4" NPT Nipple, PP	1926	160.00
8' Track, 2" NPT Plug, 3/4" NPT Nipple, PP	2242	200.00

Specifications	
Fitting	
Track lengths:	US: 2', 4', 6', 8', 10', Metric: 1m, 2m, 3m
Adjustability:	Entire track length
Mixing velocity:	< 1.5 fps (.45 mps)
Process temp.:	F: -40˚ to 176˚, C: -40˚ to 80˚
Pressure:	Atmospheric
Fitting material:	PP (20% glass fill)
Process mount:	1_01: 2" NPT, 1_61: 2" G
Mount. gasket:	FPM
Junction Box	
Sensor inputs:	1-4 sensors
Terminal strip:	12 pole socket
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	PP, UL94VO
Encl. rotation:	300˚ swivel base
Conduit entrance:	Single, 1/2" NPT
Temp. rating:	F: -40˚ to 158˚, C: -40˚ to 70˚C
Side Mount	
Bracket material:	PP
Female threads:	1001: 2" NPT, 1051: 2" G
Tank installation:	Bolt or plastic weld

5

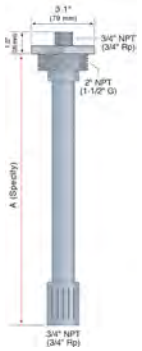
Switch-Pak™ Installation Fitting



The single-point fitting enables users to install and extend a Flowline level switch through the top wall of the tank. Offered in PVC, PP and PVDF materials, the fitting is typically applied in bulk storage tanks, day tanks and waste sumps. Each fitting is built custom to your requirements. Select the appropriate material based upon your application liquid and specify the A-dimension, taking into consideration the installed sensor length.

Features:

- Thermal or solvent welded fitting is built to your switch insertion length
- Offered in PVDF, PP and PVC material for maximum chemical compatibility



Switch-Pak™ Installation Fitting

Description	Part #	Price $
2" NPT Plug, 3/4" NPT Adapter & Nipple, PP	2243	40.00
2" NPT Plug, 3/4" NPT Adapter & Nipple, PVDF	2245	85.00
2" NPT Plug, 3/4" NPT Adapter & Nipple, PVC	2244	35.00

Specifications	
Fitting	
Length:	6" to 10' (15 cm to 3m)
Process temp.:	F: -40˚ to 176˚, C: -40˚ to 80˚
Pressure:	150 psi (10 bar) @ 25˚ C., derated @ 1.667 psi (.113 bar) per ˚C above 25˚ C
Fitting material:	70_1: PVC, 10_1: PP, 50_1: PVDF
Process mount:	_001: 2" NPT, _061: 1.5" G
Mount. gasket:	FPM
Sensor adapter:	3/4" NPT (3/4" Rp)
Junction Box	
Sensor inputs:	1 sensor
Terminal strip:	6 pole socket
Enclosure rating:	NEMA 4X (IP65)
Encl. material:	PP, UL94VO
Encl. rotation:	300˚ swivel base
Conduit entrance:	Single, 1/2" NPT
Temp. rating:	F: -40˚ to 158˚, C: -40˚ to 70˚C
Side Mount	
Bracket material:	PP
Female threads:	1001: 2" NPT 1051: 2" G
Tank installation:	Bolt or plastic weld

FLOWLINE Accessories



NEMA Box

Description	Part #	Price $
Single Indicator, Windowed, 1/8 DIN, PC	2771	375.00
Two Indicator, Windowed, 1/8 DIN, PC	2772	400.00



AC-DC Power Supply

Description	Part #	Price $
100-240 VAC, 24 VDC @ 0.45A, 35mm Rail	LC95-2001	265.00



Fob USB® Adapter

Description	Part #	Price $
Fob USB® Adapter for WebCal Software	LI99-1001	50.00



Smart Trak™ Plug Fitting

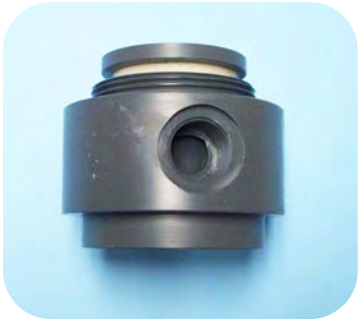
Description	Part #	Price $
Plug Fitting Only, 2" NPT	LM40-1001	40.00



Switch Car Kit

Description	Part #	Price $
3/4" NPT, PP	1927	30.00

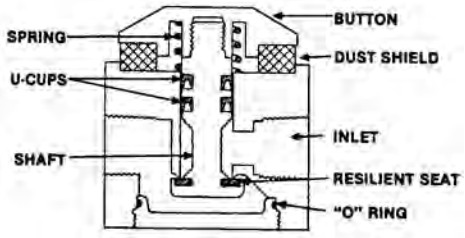
Plast-O-Matic Series MFR



Manual Shutoff Valve ... palm or foot operated valves are the answer for handling pure deionized rinse water where your hand or hands must be free to handle the part being rinsed. They are also ideal for handling corrosive or other ultra-pure liquids where economical performance is a prime consideration.

Features

- **Available in PVC in sizes 1/2" or 3/4" with Fpm® seal standard. Buna-N available**
- **Low pressure drop with high flow rates**
- **Hands are kept free for performing other functions**
- **Compact - requires minimum bench or floor space**
- **Isolated spring is not in the liquid**
- **Easy to install in any position with 1/4-20 mounting holes supplied**
- **Maximum working pressure 150 PSI x/ 10 Bar at @ 77°F**



FPT Pipe Size	Part #	PVC Price Each
1/2	1014	$ 240.00
3/4	1015	379.00

TANK ALERT® 4X Alarm System

Industrial Duty, Versatile, Indoor or Outdoor, High or Low Liquid Level Alarm System



SPECIFICATIONS

Voltage for 120 VAC Model:
120 VAC 50/60 Hz
Alarm Enclosure: 6.4 x 5.3 x 5 inch, NEMA 4X, indoor-outdoor, weatherproof, UV stabilized thermoplastic
Alarm Horn: 88 decibels at 10 feet
Float Switch: Sensor Float® control switch with mounting clamp
Cable: 15 feet, flexible 18 gauge, 2 conductor (UL) SJOW, water resistant (CPE)
Float: 3.38 in. dia. x 4.55 in. long, high impact, corrosion resistant PVC housing for use with sewage and non-potable water up to 140°F
Switch: hermetically sealed steel capsule features mercury-to-mercury contacts

APPLICATIONS

- **Lift Pump Chambers • Sump Pump Basins • Holding Tanks**
- **Sewage • Agricultural • Other non-potable Water Applications**
- **The Tank Alert 4X system serves as a high or low level alarm depending on the float switch model used.**
- **The stainless steel alarm horn sounds and red beacon illuminates when potentially threatening liquid level condition occurs.**

FEATURES

- **NEMA 4X enclosure rated for indoor or outdoor use**
- **Automatic alarm reset and alarm test / normal / silence switch**
- **Alarm system (when installed on separate circuit) operates even if the pump circuit fails**
- **System includes standard 15 feet Sensor Float® control switch with mounting clamp (other lengths available)**

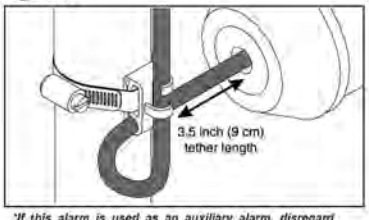
Part #	Description / Rating	Price
2554	120V with no Sensor Float	$ 235.01
2555	120V with 15' Cord Sensor Float High	265.96
2556	120V with 15' Cord Sensor Float Low	265.96

INSTALLING THE FLOAT SWITCH*

1. Place the float switch cord into the clamp as shown in Figure A.
2. Locate the clamp at the desired activation level and secure the clamp to the discharge pipe as shown in Figure A.
   Note: Do not install cord under hose clamp.
3. Tighten the hose clamp using a screwdriver. Over tightening may result in damage to the plastic clamp. Make sure the float cable is not allowed to touch the excess hose clamp band during operation.
4. Bring cable leads back to control device and wire according to Figure B.
5. Check installation. Allow system to cycle to ensure proper operation.

Note: All hose clamp components are made of 18-8 stainless steel material. See your SJE-Rhombus® supplier for replacements.

Figure A



**If this alarm is used as an auxiliary alarm, disregard the float switch mounting detail.*

Level Controls

Standard and Heavy Duty Wide Angle Mercury Float Switch



FEATURES
- Junior Super Single - std. duty controls pumps up to 1/2HP at 120 VAC and 1HP at 230 VAC.
- Super Single - Heavy duty controls pumps up to 1HP at 120 VAC and 2HP at 230 VAC.
- Includes std. mounting clamp and boxed packaging.
- UL Recognized for use in non-potable water and sewage.
- CSA Certified
- Three-year limited warranty

SPECIFICATIONS
Std. Duty Cable: flexible 16 gauge, 2 conductor (UL,CSA) SJOW, water-resistant (CPE)
Heavy Duty Cable: flexible 14 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)
Mercury Switch: mercury-to-mercury contacts, hermetically sealed in a steel capsule

General Description
The wide-angle single mercury float switch provides automatic control of pumps in non-potable and sewage applications. These switches are not sensitive to rotation but may be affected by turbulence. Mount Std. duty switches in a non-turbulent location.

Ordering Information

Part #	Description	Voltage	Price
1965	Standard Duty	120	$ 75.47
1966	Standard Duty	230	77.84
1967	Heavy Duty	120	126.42
1968	Heavy Duty	230	128.65

Heavy Duty Duplex Mercury Float Switch

FEATURES
- Controls pumps up to 1HP at 120 VAC and 2HP at 230 VAC.
- Adjustable pumping range of 1.75 to 48 inches with increased pumping range up to 6 feet available.
- Includes standard mounting clamps and boxed packaging.
- UL Recognized for use in non-potable water and sewage.
- CSA Certified
- Three-year limited warranty

SPECIFICATIONS
Cable attached to float housing: flexible 14 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)
Cable above splice: flexible 14 gauge, 3 conductor (UL, CSA) SJTW, water-resistant, thermoplastic
Floats: 3.38" dia x 4.55" long high impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140° F
Mercury Switch: mercury-to-mercury contacts, hermetically sealed in a steel capsule



General Description
The mercury activated, wide-angle pump switch provides automatic control of pumps in non-potable water and sewage applications. It is well-suited for confined applications requiring an accurate pumping range. It is not sensitive to rotation or turbulence. This switch is voltage sensitive - use with correct voltage. The Double Float pump switch consists of two floats and a splice tube. Each float contains a heavy-duty mercury switch. The splice tube contains a holding relay which enables the floats to function in series.

Ordering Information

Part #	Description	Voltage	Price
1969	Heavy Duty	120	$ 157.90
1970	Heavy Duty	230	161.79

SIGNALMASTER® SPDT Control Switch



FEATURES
- Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory.
- Mechanically-activated, snap action contacts.
- High impact, corrosion resistant, polypro float housing.
- Control differential of 1.5 inches (4cm) above or below horizontal.
- Green colored cap for easy ID of SPDT control switch.
- UL Listed for use in water and sewage.
- CSA Certified
- Three-year limited warranty

SPECIFICATIONS
CABLE: flexible 18 gauge, 3 cond. (UL) SJOW, water-resistant (CPE)
FLOAT: 2.74in. dia. x 4.83in. long (7.0 x 12.3cm) high impact, corrosion resistant, PP housing for use in sewage and water up to 140˚F (60˚C)
MAXIMUM WATER DEPTH: 30FT (9M), 13 PSI (90 kPa)
ELECTRICAL: 5 amp, 125/250 VAC, 50/60 Hz

General Description
Mechanically-activated, narrow-angle float switch designed to activate pump control panels and alarms. The SJE SignalMaster® SPDT control switch can be wired to work in either normally open or normally closed applications. It is not sensitive to rotation.

Ordering Information

Part #	Description	Voltage	Price
1006094	N/O or N/C	125/250 VAC	$ 38.26

SJE MILLIAMPMASTER™ Control Switch



FEATURES
- Passed NSF Standard 61 protocol by an approved Water Quality Association laboratory.
- Mechanically-activated, snap action contacts.
- High impact, corrosion resistant, polypro float housing.
- Low current, non-arching applications down to 0.160mA at 125 VAC.
- Blue colored cap for easy ID of MilliampMaster™ control switch.
- UL Listed for use in water and sewage.
- CSA Certified
- Three-year limited warranty

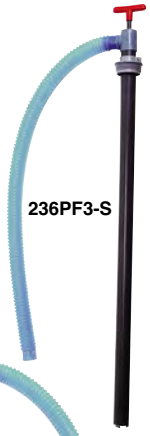
SPECIFICATIONS
CABLE: flexible 18 gauge, 2 cond. (UL,CSA) SJOW, water-resistant (CPE) jacket
FLOAT: 2.74in. dia. x 4.83in. long (7.0 x 12.3cm) high impact, corrosion resistant, PP housing for use in sewage and water up to 140˚F (60˚C)
MAXIMUM WATER DEPTH: 30FT (9M), 13 PSI
ELECTRICAL: 125 VAC, 30 VDC, 5 VDC

General Description
Mechanically-activated, control switch designed to activate low current control panels and alarms
The wide-angle version activates/deactivates approximately 4" above and below horizontal with a 3.5" tether. The narrow angle version at 1.5" above and below horizontal with a 3.5" tether.

Ordering Information

Part #	Description	Price
1018842	Narrow Angle-N/O 15' Cable	$ 38.40
1018843	Narrow Angle-N/C 15' Cable	38.40

Hand Drum Pumps



Beckson Acid Transfer Drum Pump

236PF Series - FPM
The Beckson 236 series of hand pumps will eliminate the lifting and tilting of drums and carboys. They are designed to transfer most acids with relative ease. The body and shaft are constructed of a special PVC with the valves and seals of FPM. The pumps in this series are 38" long with a diameter of 1-1/2" 28 oz. per stroke.
236PF SERIES UL LISTED for transferring Sulphuric Acid (H2SO4) in concentrations up to 50% maximum at 120 degrees F. maximum.

Part #	Description	Adapter	Hose	Price
236PF3-S	Acid Transfer Drum Pump	Std. 2" IPS Bung	3 ft.	$ 124.87



Beckson Alkali Transfer Drum Pump

436PF Series - HYPALON®
The Beckson 436 series of hand pumps will eliminate the lifting and tilting of drums and carboys. They are designed to transfer detergents, waxes, alkalis and certain acids. The body and shaft are constructed of a special polyvinyl chloride with the valves and patented seals of DuPont's HYPALON®. The pumps in this series are 38" long with a diameter of 1-1/2" 28 oz. per stroke.
436PF SERIES UL LISTED for transferring Hydrochloric Acid (HCL) in concentrations up to 30% maximum at 100 degrees F. maximum. Partial list of compatible chemicals. Most Alkalis, Hydrofluoric Acid, Acetic Acid (30%), Methyl Alcohol.

Part #	Description	Adapter	Hose	Price
436PF3-S	Alkali Transfer Drum Pump	Std. 2" IPS Bung	3 ft.	$ 116.20



Beckson Sanitary Maintenance Drum Pump

For Detergents - Waxes - Alkalis and Water NOT FOR DAIRY / FARM CHEMICALS
NOTE: SANITARY MAINTENANCE PUMPS are only for use in commercial NON-FARM NON-DAIRY environments where personal protective equipment is required and OSHA (Occupational Safety and Health Act) regulations are enforced by management.
Hose Outlet
Allows for the easy directional dispensing of liquids into receiving containers. Adapters are available to attach to the openings of most drums, carboys and five gallon containers.

Part #	Description	Adapter	Hose	Price
MP1209	Sanitary Drum Pump (12 in. Barrel)	None	9 in.	$ 45.80
MP3630S	Sanitary Drum Pump (36 in. Barrel)	Std. 2" IPS Bung	30 in.	$ 62.20



Beckson Petroleum Drum Pump

BUNA N - 336PF Series - POLYURETHANE (NOT FOR HOT OIL)
Our 336PF and PP series of pumps are designed to transfer petroleum products quickly and inexpensively. These models incorporates the same design features as our acids and alkali pumps with modifications to make them more compatible with petroleum products. Valves are polyurethane, seals are Buna N with the hose being reinforced vinyl.
336PF Series: Capacity = six strokes/gallon Dimensions = 1-1/2" dia. 38" long Volume = 28 oz./stroke

Part #	Description	Adapter	Hose	Price
336PF3-S	Petroleum Drum Pump	Std. 2" IPS Bung	3 ft.	$ 107.47

Beckson's Drum Adapters

Adapters are available to hold pumps to a variety of containers. They can be used with 1-1/2" diameter pumps (236PF, 336PF & 436PF series). It is recommended an adapter be used whenever dispensing from containers.

Part #	Description	Price
ADPT-A01	Drum Adapter, for ACT Buttress Thread (2 3/4")	$24.07
ADPT-S01	Drum Adapter, for 1 1/2" Dia. Pumps	$10.73
ADPT-G01	Drum Adapter, for 1 1/2" Dia. Pumps	$40.53
ADPT-B02	Drum Adapter, for CCA or Rieke Buttress Thread (2 5/8")	$24.07
ADPT-B01	Drum Adapter, for 1 1/2" Dia. Pumps	$10.73
ADPT-P01	Drum Adapter, for 1 1/2" Dia. Pumps	$51.20
ADPT-S02	Drum Adapter, for 1 1/4" Dia. Pumps	$10.73

Drum Pumps

Finish Thompson S6 Rechargeable Drum Pump Kits



All S6 rechargeable drum pump kits include pump tube, motor, 115V electric or 12V automobile charger, wall hanger, 5 foot PVC discharge hose and hose clamp.

S6 motor and chargers are CE certified.

S6 motors are NOT SUITABLE FOR USE WITH FLAMMABLE MATERIALS!

Description:
The S6 is a low cost, lightweight, cordless drum pump motor that works with all EF Series pump models. With a 12-volt lithium ion battery, the S6 can run up to 50 minutes before requiring a charge. And charging is fast with our 2-hour quick chargers.

This powerful motor can handle fluids with specific gravities up to 1.6 and viscosities up to 100 cP, yet weighs only 3 lbs. The cordless design makes for stress free pumping off-site, on deliveries, or in areas with limited or no electricity. Versatile dual speed control allows greater flow control. Dual cooling fans and overload protection help maintain battery life of the S6.

Three charger options are available as well as a wall hanger accessory for motor, pump and charger.

Features:
- 12V (10.8V under workload), 3,200 mAh lithium ion battery
- Cordless design for ultimate portability
- Lightweight yet powerful
- Dual speed for precise fluid dispensing
- Dual cooling fans for longer battery life
- Electronic overload protection
- Integrated charging port
- Fits all EF Series pump tubes



EFP - Polypropylene Pump

Size (in.)	115V Elect. #	12V Auto #	Price $
16	DEFP042	DEFP052	662.00
27	DEFP043	DEFP053	679.00
40	DEFP044	DEFP054	723.00
48	DEFP045	DEFP055	768.00
54	DEFP046	DEFP056	813.00



EFV - PVDF Pump

Size (in.)	115V Elect. #	12V Auto #	Price $
16	DEFV013	DEFV024	758.00
27	DEFV014	DEFV025	776.00
40	DEFV015	DEFV026	817.00
48	DEFV016	DEFV027	863.00
54	DEFV017	DEFV028	908.00



EFS - Stainless Steel Pump

Size (in.)	115V Elect. #	12V Auto #	Price $
16	DEFS012	DEFS020	957.00
27	DEFS013	DEFS021	979.00
40	DEFS014	DEFS022	1000.00
48	DEFS015	DEFS023	1021.00

Monarch Rotary Hand Pump - Barrel Pumps



Rotary pumps are ideally suited for handling petroleum products from 55 gallon drums. They are two-directional- the discharge hose can be emptied quickly by a few reverse turns of handle. Pumps have an even flow, with no pulsation and are very easy to operate.

FEATURES:
- **Rotor -** Cast gray iron, off-set, precision machined, with separate pump, easily serviced.
- **Springs -** Plated for corrosion resistance
- **Sliding Vanes -** Brass, self-adjusting for wear.
- **Casing -** Cast gray iron, requiring cover on one side only, with locating pins, for easy reassembling after servicing.
- **Suction Pipe -** telescoping, to fit various drum sizes.

Part #	Pipe Size	Price	Description
2005	3/4”	$217.00	Petroleum transfer pump, bronze fitted, 1 U.S. gal. per 10 rev.; complete with handle, spout, 40” telescoping suction pipe and 2” bung adaptor.
2006	3/4”	259.00	As above but with 3/4” x 8 ft neoprene hose

ALSCO™ Lutz® Chemical Transfer Pumps

Selection is simple ... select the motor ... type of pump tube ... the length of the tube.
Use the information below to choose components that will meet all your drum pump applications.
ALL MOTORS AND PUMP TUBES ARE INTERCHANGEABLE



Barrel Pumps

Motors

- Interchangeable w/ pump tubes
- Pneumatic and electric (16' cord)
- Open or TEFC or Explo. Proof
- Fixed or Variable speed
- Heavy duty explosion proof
- Wide range to meet almost any application

Pump Tubes

- Interchangeable with all motors
- Seal-less or Mechanical seal
- High volume rotor or high head impeller
- Available PP, SS , PVDF, ALU, HC
- Std. Lengths: 27", 39", 47", 55", 59", 63" , 67" & 78"
- Other lengths available

Lutz® Electric Motors

All motors are interchangeable with pump tubes on next page.



B36

B36 — Part # 2561 — Price $480.00
B36 SC — Part # 2562 — Price $580.90

Motor:
120V, 640W, 60Hz
Double insulated. Open drip-proof motor.
NOT SUITABLE FOR HAZARDOUS DUTY!

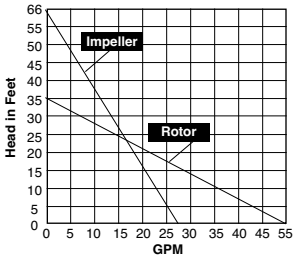
Applications:
For almost all types of thin-bodied, slightly viscous, aggressive and non-flammable liquids.

Operating Data:

Quantity:	up to 54.5 GPM
Delivery Head:	up to 68.5 FT.
Temp. of medium:	up to 248°F
Viscosity:	up to 600 cps
Specific Gravity:	1.8

Typical Liquids Pumped
Hydrochloric acid, sulfuric acid, formic acid, boric acid, chromic acid, caustic soda solution, ammonium chloride, soap solutions etc.

Weight
(motor and pump tube) approx. 9.4 to 15 lbs.





B28

B28 — Part # 2563 — Price $534.00

Motor:
120V, 800W, 60Hz
Open drip-proof motor.
NOT SUITABLE FOR HAZARDOUS DUTY!

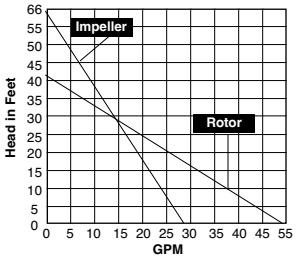
Applications:
For almost all types of thin-bodied, slightly viscous, aggressive and non-flammable liquids.

Operating Data:

Quantity:	up to 54 GPM
Delivery Head:	up to 66 FT.
Temp. of medium:	up to 248°F
Viscosity:	up to 1000 cps
Specific Gravity:	2.0

Typical Liquids Pumped
Hydrochloric acid, sulfuric acid, formic acid, boric acid, chromic acid, caustic soda solution, ammonium chloride, soap solutions etc.

Weight
(motor and pump tube) approx. 10.3 to 18 lbs.





B55-T

B55-T-5 and B55-T-7
Part # 2564-5 — Price $ 759.80
Part # 2564-7 — Price $ 1057.00

Motor:
B55-T-5: 120V, 510W, 60Hz
B55-T-7: 120V, 750W, 60Hz
Double insulated, with ground connection
T.E.F.C. Splashproof with protection class IP 54

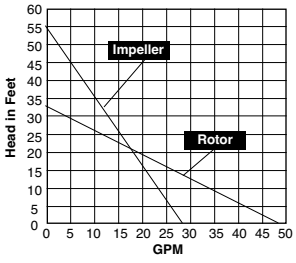
Applications:
For almost all types of thin-bodied, slightly viscous, aggressive and non-flammable liquids.

Operating Data:

Quantity:	up to 48 GPM
Delivery Head:	up to 55 FT.
Temp. of medium:	up to 248°F
Viscosity:	up to 600 cps
Specific Gravity:	1.8

Typical Liquids Pumped
Hydrochloric acid, sulfuric acid, formic acid, boric acid, chromic acid, caustic soda solution, ammonium chloride, soap solutions etc.

Weight
(motor and pump tube) approx. 13.4 to 23.3 lbs.





ME I 6

ME I 6 *Silver Star*
Part # 2565 — Price $1237.80

Motor:
120V, 640W, 60Hz, 0.5 hp
Explosion proof Class I, groups C and D and Class II, groups F and G

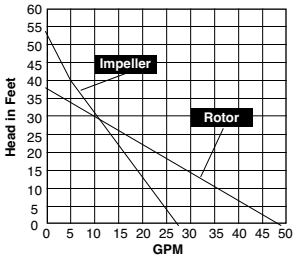
Applications:
For most thin-bodied, lightly viscous and FLAMMABLE LIQUIDS. Principal Industries: Chemical, petro-chemicals, pharmaceutical, paint and varnish, processing, electroplating.

Operating Data:

Quantity:	up to 49 GPM
Delivery Head:	up to 54 FT.
Temp. of medium:	up to 284°F
Viscosity:	up to 600 cps
Specific Gravity:	1.8

Weight: (motor) approx. 14.3 lbs.

Safety Notice:
When pumping flammable liquids!
Pump tube & container must be bonded & grounded.
Use with Zone 0 pump tubes made of SS or Hast. C.
Use explosion proof plug & conductive hoses.



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Lutz® Chemical Transfer Pumps

Lutz® Compressed Air Driven Motors

MD-2 (Ex)
MD-1 (Ex)



MD-2 (Ex)
Part # 0004-736 Price $ 1157.00
MD-1 (Ex)
Part # 0004-726 Price $ 735.00

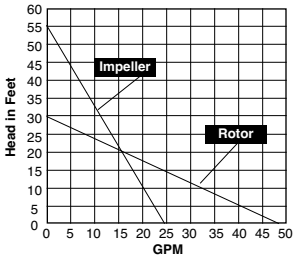
Motor:
Approx. 300 watt at 87 PSI, Speed of 6900 RPM
Air consumption approx. 17 CFM
SUITABLE FOR HAZARDOUS DUTY!
Applications:
For thin-bodied, neutral, aggressive and flammable liquids.

Operating Data:

Quantity:	up to 48 GPM
Delivery Head:	up to 55 FT.
Temp. of medium:	up to 248°F
Viscosity:	up to 950 cps
Specific Gravity:	1.8

Typical Liquids Pumped
Acetone, petrol/gasoline,solvents, oils, acids, lyes, ammonium chloride, photographic developers etc.

Safety Notice: MD-2
When pumping flammable liquids!
Pump tube & container must be bonded & grounded.
Use with Zone 0 pump tubes made of SS or Hast. C.
Use conductive hoses.



4 GT



4 GT
Part # 2568 Price $ 385.20

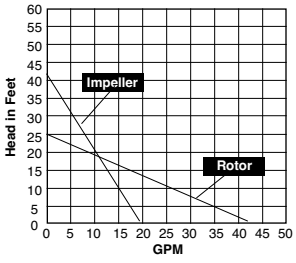
Motor:
Approx. 220 watt at 87 PSI, Speed of 6900 RPM
Air consumption approx. 14 CFM
NOT SUITABLE FOR HAZARDOUS DUTY!
Applications:
For thin-bodied, neutral, aggressive and non-flammable liquids.

Operating Data:

Quantity:	up to 42 GPM
Delivery Head:	up to 43 FT.
Temp. of medium:	up to 248°F
Viscosity:	up to 600 cps
Specific Gravity:	1.4

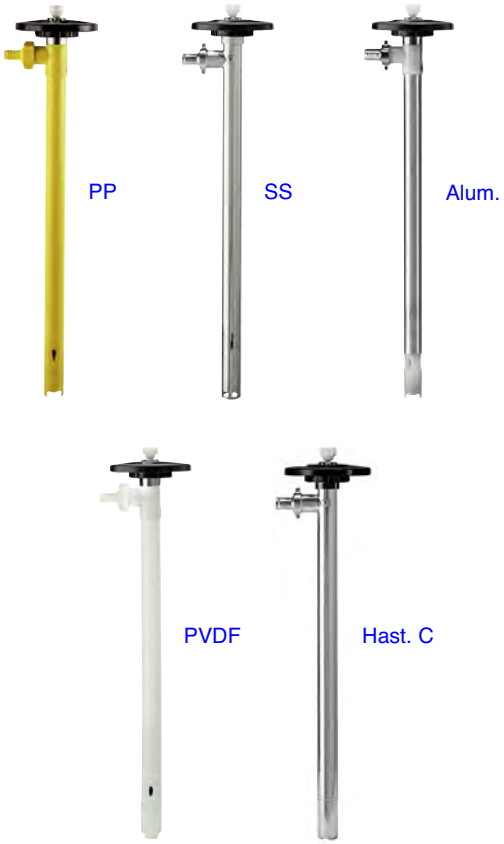
Typical Liquids Pumped
Hydrochloric acid, sulfuric acid, formic acid, boric acid, chromic acid, caustic soda solution, ammonium chloride, soap solutions etc.

Weight
(motor and pump tube) approx. 5.5 to 12.1 lbs.



Lutz® Pump Tubes

All pump tubes are interchangeable with all motors above & on previous page.



Multi-Purpose Seal-less

Part #	Description	Hose Size	Tube Len.	Price $
2569-27	PP Tube/Hast. C Shaft/Rotor type	3/4"	27"	$441.60
2569-39	PP Tube/Hast. C Shaft/Rotor type	3/4"	39"	$464.60
2569-47	PP Tube/Hast. C Shaft/Rotor type	3/4"	47"	$481.40
2569-63	PP Tube/Hast. C Shaft/Rotor type	3/4"	63"	$693.80
2570-27	PP Tube/SS Shaft/Rotor type	3/4"	27"	$387.20
2570-39	PP Tube/SS Shaft/Rotor type	3/4"	39"	$424.90
2570-47	PP Tube/SS Shaft/Rotor type	3/4"	47"	$439.60
2571-27	SS Tube/SS Shaft/Rotor type	1"	27"	$664.50
2571-39	SS Tube/SS Shaft/Rotor type	1"	39"	$748.20
2571-47	SS Tube/SS Shaft/Rotor type	1"	47"	$805.80
2571-63	SS Tube/SS Shaft/Rotor type	1"	63"	$1193.00
2572-27	Alum Tube/SS Shaft/Rotor type	1"	27"	$491.90
2572-39	Alum Tube/SS Shaft/Rotor type	1"	39"	$527.50
2572-47	Alum Tube/SS Shaft/Rotor type	1"	47"	$596.50
2573-27	PVDF Tube/Hast. C Shaft/Impeller	1"	27"	$726.30
2573-39	PVDF Tube/Hast. C Shaft/Impeller	1"	39"	$860.20
2573-47	PVDF Tube/Hast. C Shaft/Impeller	1"	47"	$905.30

Multi-Purpose with Mechanical Seal

Part #	Description	Hose Size	Tube Len.	Price $
2575-27	SS Tube/SS Shaft/Rotor type	1"	27"	$664.50
2575-39	SS Tube/SS Shaft/Rotor type	1"	39"	$748.20
2575-47	SS Tube/SS Shaft/Rotor type	1"	47"	$803.80
2576-27	Alum Tube/SS Shaft/Rotor type	1"	27"	$492.90
2576-39	Alum Tube/SS Shaft/Rotor type	1"	39"	$527.50
2577-39	Hast. C Tube/Hast. C Shaft/Rotor type	1"	39"	$4165.10

Pump tubes are 1 1/2" in diameter. For standard 55 gallon drum use 39" length pump tube. ** Other Hose sizes available.
Note: The pump tubes above have rotor type pumping elements. Impeller type pumping elements available upon request.

Lutz® Chemical Transfer Pumps

RE 88 Complete Drainage Pump Tube with Mechanical Seal



PP SS

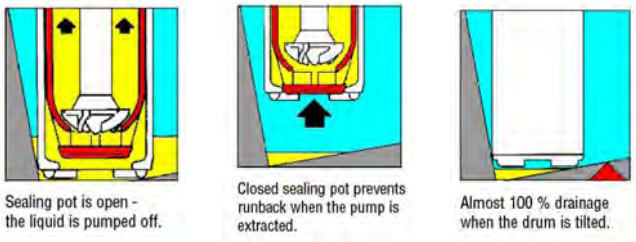
Applications

The pump tube RE-88 PP and RE-88 SS is designed to be used where drums or other containers have to be completely drained.
The relatively small pump tube diameter of 41mm also makes the unit ideal for use in narrow-necked containers or in drums with a 2" bunghole.
The pump tube is non-lubricated, thus preventing contamination of the liquids pumped.

- Avoid loss of material
- Eliminate Pollution

Warning: The RE 88 PP pump must not be used for flammable liquids.

Function of pump tube RE 88



Sealing pot is open - the liquid is pumped off.

Closed sealing pot prevents runback when the pump is extracted.

Almost 100 % drainage when the drum is tilted.

Operating Data:

Quantity:	up to 20 GPM
Delivery Head:	up to 64.5 FT.
Temp. of medium:	up to 212°F
Viscosity:	up to 1500 cps

Part #	Description	Hose Size	Tube Len.	Price $
2578-27	PP Tube/SS Shaft/impeller	3/4"	27"	$1255.80
2578-39	PP Tube/SS Shaft/Impeller	3/4"	39"	$1297.70
2578-47	PP Tube/SS Shaft/Impeller	3/4"	47"	$1381.50
2579-27	SS Tube/SS Shaft/Impeller	1"	27"	$1454.70
2579-39	SS Tube/SS Shaft/Impeller	1"	39"	$1538.40
2579-47	SS Tube/SS Shaft/Impeller	1"	47"	$1643.00

6

Mixing Pump Tube MP for Mixing and Pumping

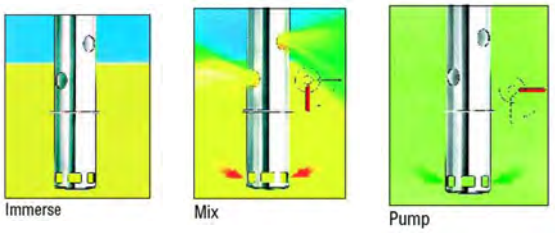
For use in trade and industry wherever mixtures, emulsions, dispersions or suspensions are used. The MP Pump Tube can be combined with any of the Lutz air or universal motors. See previous pages.



Applications

The Lutz mixing pump tube is designed to be used in any situation where it is necessary to mix and pump in a single operation.
The relatively small pump tube diameter of 50mm (Polypropylene) and 41mm (Stainless Steel) also makes the unit ideal for use in narrow-necked containers or in drums with a 2" bunghole.
The rate of flow, viscosity and density of the medium determine the mixing intensity and the delivery rate of the mixing pump tube. Experience has shown that the mixture quantity should preferably not exceed 55 Gallons in the medium in thin-bodied. The drive shaft of this pump tube is sealed by a single-acting mechanical seal (MS) and two shaft seals located behind it, making a robust sealing system. The pump tube must not be allowed to run dry. The pump tube is non-lubricated, thus preventing contamination of the liquids pumped.

Function



Immerse Mix Pump

Operating Data:

Quantity:	up to 51 GPM
Delivery Head:	up to 36 FT.
Temp. of medium:	up to 212°F
Viscosity:	up to 1000 cps

Part #	Tube / Shaft	Hose Size	39" Price
2580-1	PP / SS	3/4"	$1021.40
2581-1	SS / SS	1"	$1590.80

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Lutz® Chemical Transfer Pumps

B70V-SR Pump Tube for High Viscosity

Pump Tube:

Pump tube of stainless steel 316 with stators of NBR, NBR light, Fpm, PE or PTFE. Shaft is sealed by a mechanical seal or PTFE stuffing box. Tube diameter 2". Immersion depth 39". Threaded connection R 1 1/2", hose connection 1 1/4".

Applications

Progressive cavity pump for sensitive and high viscosity liquids from drums and other containers.



Operating Data:

Quantity:	up to 13 GPM
Delivery Head:	up to 200 FT. (87 PSI) *
Temp. of medium:	up to 284°F
Viscosity:	up to 60,000 cps *

*** Higher values on request.**

Typical Liquids Pumped

Plastic dispersion, varnishes, paints, washing agents, shampoos, soap solutions, whey, jams, creams, pastes, gels, inks, pigments, resins, adhesives, wax, food products

Part #	Tube / Shaft	Hose Size	Stator	Shaft Style	Seal Type	39" Price
2582-1	SS / SS	1 1/4"	PTFE	Joint	P. gland	$2972.10
2583-1	SS / SS	1 1/4"	PTFE	Torsion	Mech.	$3076.80
2584-1	SS / SS	1 1/4"	PTFE	Joint	Mech.	$3190.00

Drum and Laboratory Pump and Motor (Non-Explosion Proof)



Barrel Pumps

Features:

- Light weight
- Fully portable (B2-A)
- Sealless SS or PP pump tubes
- Up to 20 GPM
- Double insulated splash-proof motor (B2)
- Integrated splash-proof on-off switch
- Integrated motor protection switch
- Special air flow cooling system
- Complete user-friendly accessories



Part #	Description	Hose Size	Tube Len.	Price $
2586	B2 Vario, PP, Electric, 110 Volt	3/4"	27"	$537.90
2586-SET	B2 Vario,PP,Electric,110 Volt,+Accessory Kit	3/4"	27"	$678.10
2587	B2 Vario, PP, Electric, 110 Volt	3/4"	39"	$611.10
2587-SET	B2 Vario,PP,Electric,110 Volt+Accessory Kit	3/4"	39"	$742.00
2588	B2 Vario, SS, Electric, 110 Volt	3/4"	39"	$835.20
2588-SET	B2 Vario,SS,Electric,110 Volt+Accessory Kit	3/4"	39"	$988.90
2589	**Accessory Kit** (Wall Bracket, Discharge Spout, 5 ft. of PVC Hose, 2 Hose Clamps & Nozzle)	-	-	$255.30



Pneumatic Drum Pumps





The Lutz Pneumatic Drum Pump Sets are designed for specific applications as stated in the descriptions below. The sets are designed for specific liquids and locations (Hazardous or Non-Hazardous and Flammable or Non-Flammable Locations). The customer should take extreme caution when choosing the pump set. Can't find what you need or not sure which pump set - Contact the sales dept. or look on previous pages for Custom Pump motors and various tube material & length combinations to meet your application needs.



Part #	Description	Tube Mat.	Tube Len.	Price $
2976	Air Drum Pump Set-Acids & Alkalines	PP	39"	$1475.60
2977	Air Drum Pump Set-Acids & Alkalines	PP	47"	$1507.00
2978	Air Drum Pump Set-Flammables	SS	39"	$3652.40
2979	Air Drum Pump Set-Highly Corr. Acids	PVDF	39"	$2794.20
2980	Air Drum Pump Set-Highly Corr. Acids	PVDF	47"	$2857.00
2981	Air Drum Pump Set-Low Viscous Oils	Alum	39"	$1716.30
2989	Air Drum Pump w/o Kit-Acids & Alkalines	PP	39"	$1238.00
2991	Air Drum Pump w/o Kit-Acids & Alkalines	PP	47"	$1240.00
2993	Air Drum Pump w/o Kit-Corr. Acids/Alkalines	PVDF	39"	$1639.00
2995	Air Drum Pump w/o Kit-Corr. Acids/Alkalines	PVDF	47"	$1692.00
2997	Air Drum Pump w/o Kit-Low Visc. Oils	Alum	39"	$1279.00
2999	Air Drum Pump w/o Kit-Flammables	SS	39"	$1621.00

Lutz® Chemical Transfer Pumps

Electric Drum Pumps





The Lutz Electric Drum Pump Sets are designed for specific applications as stated in the descriptions below. The sets are designed for specific liquids and locations (Hazardous or Non-Hazardous and Flammable or Non-Flammable Locations). The customer should take extreme caution when choosing the pump set. Can't find what you need or not sure which pump set - Contact the sales dept. or look on previous pages for Custom Pump motors and various tube material & length combinations to meet your application needs.





Part #	Description	Tube Mat.	Tube Len.	Price $
2982	Electric Drum Pump Set-Acids & Alkalines	PP	39"	$1161.60
2983	Electric Drum Pump Set-Acids & Alkalines	PP	47"	$1172.20
2984	Electric Drum Pump Set-Flammables	SS	39"	$4050.10
2985	Electric Drum Pump Set-Highly Corr. Acids	PVDF	39"	$2783.80
2986	Electric Drum Pump Set-Highly Corr. Acids	PVDF	47"	$2846.60
2987	Electric Drum Pump Set-Low Viscous Oils	Alum	39"	$1391.90
2988	Electric Drum Pump w/o Kit-Acids & Alkalines	PP	39"	$913.00
2990	Electric Drum Pump w/o Kit-Acids & Alkalines	PP	47"	$942.00
2992	Electric Drum Pump w/o Kit-Corr. Acids/Alkalines	PVDF	39"	$1611.00
2994	Electric Drum Pump w/o Kit-Corr. Acids/Alkalines	PVDF	47"	$1682.00
2996	Electric Drum Pump w/o Kit-Low Visc. Oils	Alum	39"	$969.00
2998	Electric Drum Pump w/o Kit-Flammables	SS	39"	$2014.00

6

Accessories

Nozzles



PP pictured

Description	Part #	Price
Hand Regulating, PP, 3/4"	2590	$173.70
Hand Regulating, PP, 1"	2591	$173.70
Hand Regulating, SS, 1"	2592	$645.70
Hand Regulating, SS 1 1/4"	2593	$649.90
Hand Regulating, PVDF, 3/4"	2594	$439.60
Hand Regulating, PVDF, 1"	2595	$439.60

Foot Strainers



Description	Part #	Price
M-Series PPH 40	2598	$45.00
M-Series PP 41	2599	$45.00
-	-	-
B2 PP SL 39"	2601	$58.60
M-Series SS 41	2602	$144.40

Barrel Adaptors



Description	Part #	Price
M-Series PP	2596	$54.40
M-Series SS	2597	$85.80

Fume Barriers

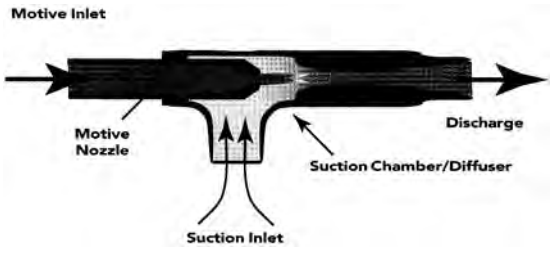


Description	Part #	Price
PP 40 / 41	2603	$323.40
SS 41	2604	$731.50

Other Lutz Accessories available: Discharge spout, wall bracket, and Electronic flow meter.

NEW

Liquid Eductors (Mixing Tees)



Price on Application

Liquid Operated Eductors

Liquid driven eductors are ejectors that use pressurized liquid to entrain, mix and pump other liquids, slurries, gases or dry solids. Eductors consist of two basic parts, the motive nozzle, which converts the pressure energy to kinetic (velocity) energy, and the suction chamber/diffuser section where the entrainment and mixing take place.

Features

- No Moving Parts
- Easy Installation
- Cost-Effective
- Handles Corrosive and /or Erosive Materials

Applications

- Primary or backup sump pump
- Additive injection
- Dilution / mixing
- Priming pumps
- Providing vacuum for distillation or cooking
- Aeration
- Venting of tanks or other vessels
- Mixing / blending of liquids in tanks
- Mixing dry solids with liquid to form a slurry or solution

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Lutz® Drum Pump Flow Meter

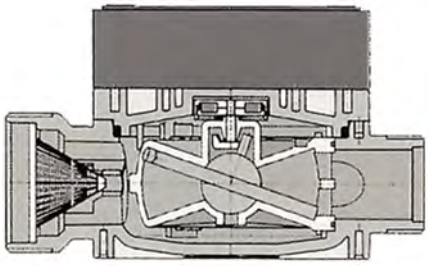


Features:

- Modular Construction
- Easy Installation
- Choice of Resistant Materials
- Remote Control Facility
- Protective Strainer provided
- Battery Condition Indicator
- Trouble-free Maintenance
- Robust Design
- Large 6-Digit LCD Display
- Fingertip Calibration
- Built-in Data Protection
- Memory Capacity for 9 different liquids
- No special Batteries required
- Batch Control

Optimization of a tried and tested technology:

At the heart of the Lutz flow meter system is a measuring chamber with a nutating disc. Liquid passing thru the chamber causes the disc to rotate about its axis, sending an impulse via a magnetic coupling to the display unit which in turn records the flow. Calibration for various liquids is done simply by keying- in the respective factors.



To select the proper Model contact our sales office for chemical compatibility.

Flow Meter Model	ST	SL	LM	UN	VA I
Part # Price	2617 $1062.20	2618 $1203.60	2619 $1789.50	2620 $2218.70	2621 $2909.30
Technical Data			Explosion Proof	Explosion Proof	Explosion Proof
Temperature	140°F *	140°F *	140°F *	140°F *	186°F *
Flow Volume	min. 2.64 GPM max. 26.4 GPM	min. 2.64 GPM max. 26.4 GPM	min. 2.64 GPM max. 26.4 GPM	min. 2.64 GPM max. 26.4 GPM	min. 2.64 GPM max. 21.1 GPM
Viscosity	2000 cps	2000 cps	2000 cps	2000 cps	2000 cps
Operation pressure	58 PSI *	58 PSI *	58 PSI *	58 PSI *	87 PSI *
Accuracy $V_{min} \leq 2.64$ GPM	± 1 % standard ≤ 1 % with adjustment application conditions	± 1 % standard ≤ 1 % with adjustment application conditions	± 1 % standard ≤ 1 % with adjustment application conditions	± 1 % standard ≤ 1 % with adjustment application conditions	± 1 %
Inlet port	G 2 male thread to fit connector w/ union nut	G 2 male thread to fit connector w/ union nut	G 2 male thread to fit connector w/ union nut	G 2 male thread to fit connector w/ union nut	G 1 1/4 male thread to fit connector w/ union nut
Outlet port	G 1 1/4 male thread	G 1 1/4 male thread	G 1 1/4 male thread	G 1 1/4 male thread	G 1 1/4 male thread
Materials: Housing Measuring chamber O-rings Magnet	 PPO PPO / SAN FPM (Fpm) BaFe, PA, SS (1.4401)	 PPO PPO / PPS FPM (Fpm) PPS / PTFE	 PPS PPS / LCP FEP BaFe, Ms, SS (1.4401)	 PPS PPS / LCP FEP PPS / PTFE	 SS (1.4571) SS / PPS PTFE PPS
Protection Class	IP54	IP54	IP54	IP54	IP54
Flow Meter with Relay Module/120V	Part # 2617-R $ 1894.20	Part # 2618-R $ 1998.80	Upon Request	Upon Request	Upon Request

* higher values on request

Accessories

Part #	Description	Price
2622	Drum Pump Fitting VA I, 1 1/4"	$195.70
2623	Drum Pump Fitting VA I, 1 1/2"	$220.90
2624	Drum Pump Fitting PPO/Fpm, ST / SL	$55.40
2625	Drum Pump Fitting PPS/Fpm-FEP, LM / UN	$90.00
2626	Non-Return Valve PTFE/Fpm, ST / SL	$90.00
2627	Non-Return Valve PTFE/Fpm-FEP, LM / UN	$107.80
2628	Non-Return Valve VA I	$290.90
2629	1 1/4" x 1" Reducer for VA I	$98.40
2630	Relay Module, 120V	$827.80

Part #	Description	Price
2632	Connecting Cable Main Valve, 16 Ft., 120V	$107.80
2633	Connecting Cable Main Valve, 5M, 230V	$107.80
2634	Connecting Cable Motor 19"	$109.90
2635	Main Supply Cable, 16 Ft.	$128.70
2636	Data Line, 16 Ft.	$132.90
2637	Mounting Plate for Remote Installation	$126.60
2638	Protection Cover	$127.70
2639	Mounting Device For Operation Unit	$98.40

Centrifugal Pumps

Finish Thompson DB Series



Base Models include:
- Carbon bushings
- FKM O-ring
- NPT thread
- Magnet set
- Motor adapter
- 3450 RPM, 115V, 1 Ph, 60 Hz, TEFC Motor

FTI's DB Series Magnetic Drive Pumps are the product of advanced engineering CFD design software and superior magnetic flux technology. Using powerful neodymium magnetic technology, the DB sealless mag drive pumps are an ideal replacement for mechanical sealed pumps in corrosive duty applications.

Features:
- Magnetically coupled...no seals to replace
- 5-year warranty
- Excellent for highly aggressive liquids, chemicals, acids, caustics and corrosives
- Extended run dry capability with carbon bushing
- Up to 1.8 SG
- Working pressure to 90 psi (6.2 bar)
- Viscosity up to 150 cP
- Easy set, measurement free drive
- Back pull-out design for easy service
- ATEX certified models available

Construction:
- Corrosion resistant polypropylene (180°F/82°C) or PVDF (220°F/104°C).
- Rare earth neodymium magnets
- FKM or EPDM o-rings standard; other options available
- Carbon, ceramic, PTFE, silicon carbide (SiC not available on DB3, 4, 5) bushings.
- TEFC, Chem Duty, EXP and 575V NEMA or IEC motors.
- ISO 1940 G2.5 balancing (not on DB3, 4, 5)
- NPT or BSP threaded, union, or flanged connections
- NPT or BSP only on DB3, 4, 5

Applications:
- Chemical processing, bulk unload, transfer
- Plating recirculation/filtration, PCB etching/rinse
- Water/waste water treatment, wet scrubber
- Laboratory, pharmaceutical, photo processing

Typical Chemicals:
- Sodium hydroxide, sodium hypochlorite
- Sulfuric acid, hydrochloric acid, nitric acid
- Corrosive blends, solvents, waste water

Base Starting Price includes: Pump End, Wet End and TEFC Motor

	DB3	DB4	DB5	DB5.5	DB6	DB6H	DB7	DB8	DB9	DB10	DB11	DB15	DB22**
Inlet x Outlet (in.)	1 x 1/2	1 x 1/2	1 x 1/2	1 x 3/4	1 x 1	1 x 1	1 1/2 x 1 1/2	1 1/2 x 1	1 x 1	1 1/2 x 1 1/2	2 x 1 1/2	2 x 1 1/2	2 x 2
Max Flow (gpm)	15.1	18.0	19.4	30.0	40.0	42.0	69.0	61.0	46.0	96.0	116.0	136.0	220.6
Max Head (ft.)	20.4	29.2	35.2	31.0	33.0	54.0	34.0	45.0	67.0	51.0	74.0	98.0	201.4
Max SG	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
HP*	1/8	1/4	1/4	1/2	1/4 - 1/3	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2	1/2 - 3/4	1/3 - 1	3/4 - 3	1 1/2 - 5	3 - 13†
kW*	.09	.19	.19	.37	.18 - .25	.18 - .37	.18 - .37	.25 - .55	N/A	.25 - .75	.75 - 1.5	1.1 - 4	3.5 - 6.1
Imp. Dia	2.3	2.7	3.0	3.0	2.5, 2.75, 3.0	3.12, 3.38, 3.63, 3.88	2.75, 3.0, 3.18	2.88, 3.12, 3.38, 3.65	4.18	3.0, 3.25, 3.5, 3.75	3.63, 3.88, 4.13, 4.38, 4.63	4.25, 4.5, 4.75, 5.0, 5.13	4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.25
PP Base Starting $	551.00	592.00	652.00	767.00	1313.00	1444.00	1535.00	1636.00	1797.00	1814.00	3180.00	3548.00	6978.00
PVDF Base Starting $	773.00	814.00	874.00	982.00	2028.00	2047.00	2058.00	2089.00	2186.00	2263.00	4994.00	5632.00	9896.00

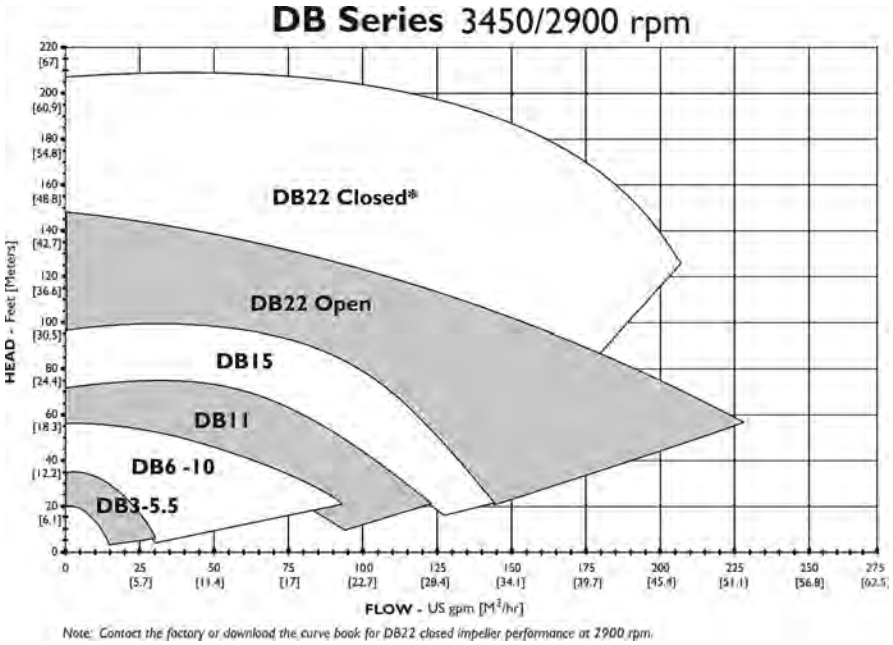
*HP calculated at 3500 rpm. kW calculated at 2900 rpm. HP(kW) calculations are at 1.0 SG.
†Consult factory for applications over 10 Hp.
**Open or closed impellers available. Impeller trims available every 1/8" between the smallest and largest diameters.

Flows to 226 gpm
Heads to 201 feet

Numerous configurations and options are available.

Pump End, Wet End and Motors sold separately.

Call ALSCO for inquires and ordering 1-800-849-3030.



Note: Contact the factory or download the curve book for DB22 closed impeller performance at 1900 rpm.

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Finish Thompson SP Series



FTI's SP Series Magnetic Drive Self-Priming Pumps are the product of advanced engineering CFD design software and superior magnetic flux technology. The SP Series combines deep-lift capabilities and lightning-fast priming with the advantages of neodymium magnetic drive technology and corrosion resistant polypropylene and PVDF to handle the most difficult applications with no seal replacement, no leaks and the capability to run-dry without damage. **Caution:** The SP Series is **not recommended** for pumping flammables.

Base Models include:
- Carbon bushings
- FKM O-ring
- NPT thread
- Magnet set
- Motor adapter
- 3450 RPM, 115V, 1 Ph, 60 Hz, TEFC Motor

Features:
- Magnetic drive
- Five-year warranty
- Excellent for pumping from above or below ground storage
- Provides up to 25 feet (7.6 m) of lift
- SP11/15 prime 18 feet (5.5 m) in 90 seconds**
- Retains fluid for re-priming when shut off without a check valve
- Up to 90 psi working pressure (6.2 bar)
- Runs without damage in absence of continuous flow
- Handles over 1.8 SG
- Back pull-out design for easy service

**with maximum diameter impeller

Construction:
- Corrosion resistant polypropylene (180°F/82°C) or PVDF (220°F/104°C)
- Rare earth neodymium magnets
- Molded-in "gooseneck" suction passage eliminates need for internal check valves
- Easy set outer drive ensures optimum magnet alignment and easy motor installation
- FKM or EPDM o-rings standard. Other options available
- Carbon, ceramic, PTFE or silicon carbide bushings
- Mounts to NEMA or IEC motor frames
- NPT or BSP threads, flange or union connections
- Special design inner volute enables fast priming

Applications:
- Bulk unload or transfer from rail cars, tanker trucks, sumps, pits, day storage or underground storage tanks to process or storage locations
- Over-the-wall applications
- Piping systems that have trapped or entrained air
- When run-dry protection is needed

Typical Chemicals:
- Sodium hydroxide, sodium hypochlorite
- Sulfuric acid, hydrochloric acid, nitric acid
- Corrosive blends, waste water

Base Starting Price includes: Pump End, Wet End and TEFC Motor

	SP10	SP11	SP15	SP22*
Inlet x Outlet (in.)	1 x 1	1 1/2 x 1 1/2	1 1/2 x 1 1/2	2 x 2
Max Flow (gpm)	55.1	104.0	120.0	252.7
Max Head (ft.)	62.9	68.0	90.0	175.4
Max SG	1.8	1.8	1.8	1.8
HP	1/3 - 2	3/4 - 3	1 1/2 - 5	3 - 13
kW	.15 - .63	.75 - 3	1.1 - 4	1.5 - 9.7
Imp. Dia	3.0, 3.25, 3.5, 3.75, 4.0, 4.18	3.63, 3.88, 4.13, 4.38, 4.63	4.25, 4.5, 4.75, 5.0, 5.13	5.0, 5.5, 6.0, 6.5, 7.0
PP Base Starting $	2567.00	4640.00	5062.00	7212.00
PVDF Base Starting $	4951.00	7242.00	7839.00	11343.00

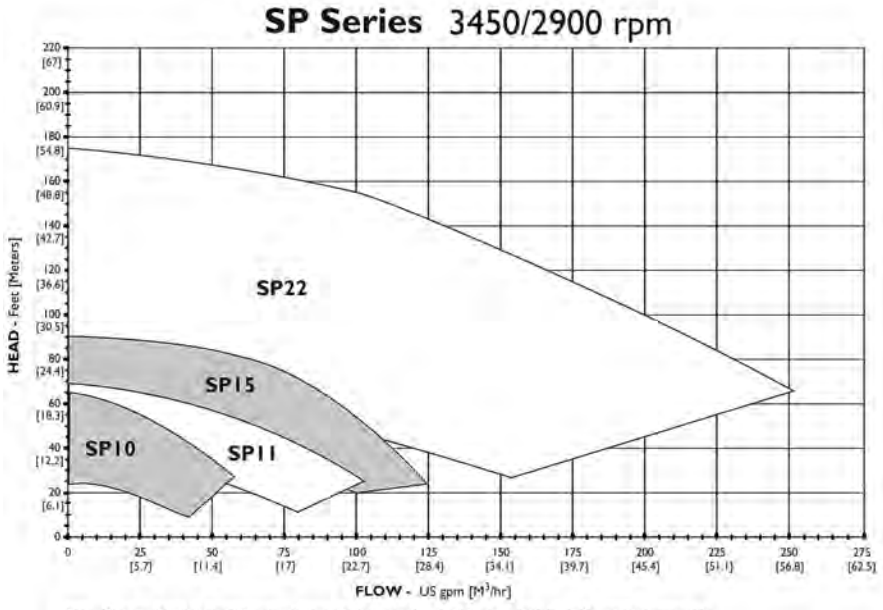
*Impeller trims available every 1/8" between smallest and largest diameter.

Flows to 253 gpm
Heads to 175 feet

Numerous configurations and options are available.

Pump End, Wet End and Motors sold separately.

Call ALSCO for inquires and ordering 1-800-849-3030.



Note: SP curves based on flooded suction. Contact the factory or download the curve book for performance at various lifts.

Centrifugal Pumps

Finish Thompson AC Series



Stainless steel (316) centrifugal pumps are designed to provide years of reliable service. A wide variety of port sizes, impeller diameters and seal options make AC Series horizontal centrifugal pumps extremely versatile.

Features:
- Bellows Type 21 seals in a variety of seal arrangements
- Close coupled
- Excellent chemical resistance
- 1.8 SG with no impeller trim
- Interchangeable components
- Back pull-out design for easy service
- Maximum working pressure - 100 psi (6.9 Bar); AC8/8H - 120 psi (8.3 Bar)
- FDA compliant option available (AC4 & AC5 models)

Construction:
- Corrosion resistant 316SS (300°F /149°C)
- Cast iron motor mount
- Standard, recessed or high head impellers
- FKM, EPDM, or PTFE o-rings standard; other options available
- TEFC, Chem duty, EXP NEMA or IEC motors
- NPT or BSP threads

Base Models include:
- C/CE/V seal
- FKM O-ring
- NPT thread
- Motor adapter
- 3450 RPM, 115V, 1 Ph, 60 Hz, TEFC Motor

Applications:
- Chemical processing, spraying, transfer
- Plating recirculation/filtration, cooling towers, printed circuit boards
- Cleaning, photo processing, pharmaceutical

Typical Chemicals:
- Sodium hydroxide, ethylene/propylene glycols
- Fuel oils, alcohols, caustic cleaners/detergents
- Solvents, waste water, DI water

Base Starting Price includes: Pump and TEFC Motor

	AC4	AC5	AC6	AC8	AC5H	AC6H	AC8H
Inlet x Outlet (in.)	3/4 - 1/2	1 1/4 x 3/4 1 1/2 x 1 1/4 2 x 1 1/2	1 1/2 x 1 1/4 2 x 1 1/2	2 x 1 1/2 2 1/2 x 2	1/2 x 1/4	1 1/4 x 3/4	1 1/4 x 3/4
Max Flow (gpm)	39.1	145.0	216.1	321.2	16.9	100.0	105.5
Max Head (ft.)	59.6	88.5	136.6	247.0	96.0	144.1	263.2
Max SG	1.8	1.8	1.8	1.8	1.8	1.8	1.8
HP*	1/2 - 1	3/4 - 3	3 - 7 1/2	10 - 20**	3/4	3	7 1/2 - 10**
kW*	.25 - .37	1 - 3	1.1 - 3.0	5.5 - 11.0	.37	1.5	3.0 - 4.0
Imp. Dia	3.0, 3.25, 3.5	4.0, 4.25, 4.5, 4.75	5.25, 5.75, 6.0	6.5, 7.0, 7.5, 8.0	4.75	6.25	7.0, 8.0
316SS Base Starting $	1016.00	1160.00	2709.00	3815.00	1178.00	2656.00	3076.00

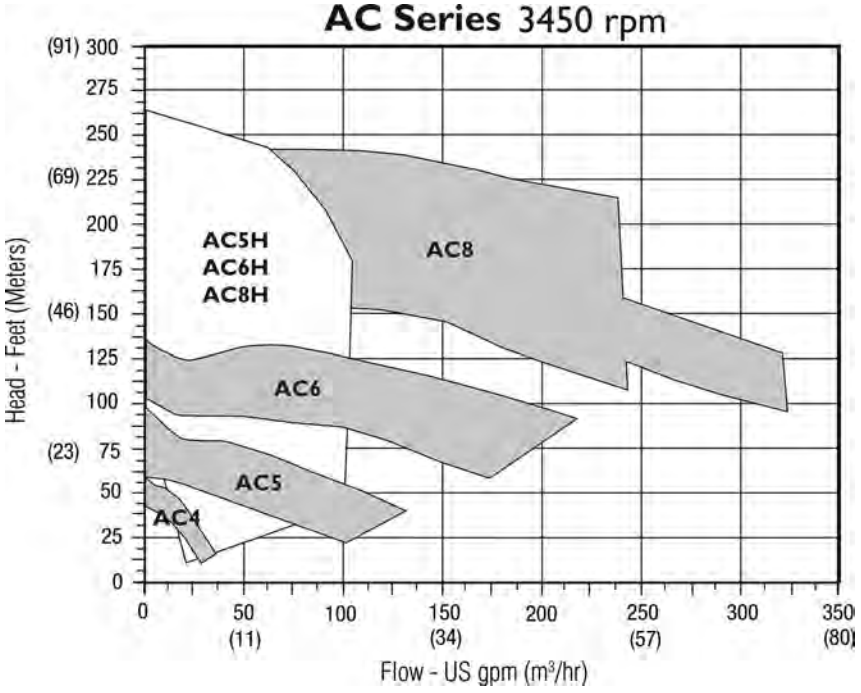
*HP calculated at 3500 rpm. kW calculated at 2900 rpm.
**3 Ph/50-60Hz/230-460V

Flows to 321 gpm
Heads to 263 feet

Numerous configurations and options are available.

Pump End, Wet End and Motors sold separately.

Call ALSCO for inquires and ordering 1-800-849-3030.



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Centrifugal Pumps

Finish Thompson AK Series



Manufactured from rugged, corrosion resistant 316 stainless steel, AK Series vertical centrifugal pumps are designed to provide years of reliable service. AK models feature 12" (30 cm) long cantilevered designs.

Features:
- Durable metal construction
- Excellent chemical resistance
- 1.8 SG with no impeller trim
- Interchangeable components
- Standard vertical, cantilevered or direct drive versions
- Maximum working pressure - 100 psi (6.9 Bar)

Construction:
- Corrosion resistant 316SS (300°F/149°C)
- Standard, recessed or high head impellers
- FKM, EPDM, or PTFE o-rings standard; Other options available
- Carbon, FKM or EPDM lower bushings
- Stainless steel mounting plate & discharge pipe
- 12" (31 cm), 24" (61 cm), 36" (91 cm) and 48" (122 cm) lengths
- TEFC, Chem duty, EXP NEMA or IEC motors
- NPT or BSP threads

Applications:
- Chemical processing, spraying, transfer
- Plating recirculation/filtration, cooling towers, printed circuit boards
- Cleaning, photo processing, pharmaceutical

Typical Chemicals:
- Sodium hydroxide, ethylene/propylene glycols
- Fuel oils, alcohols, caustic cleaners/detergents
- Solvents, waste water, DI water

Base Models include:
- FKM O-ring
- NPT thread
- Motor adapter
- 3450 RPM, 115V, 1 Ph, 60 Hz, TEFC Motor

Base Starting Price includes: Pump and TEFC Motor

	AK4	AK5	AK5R
Inlet x Outlet (in.)	3/4 - 1/2	1 1/2 x 1 1/4	1 1/2 x 1 1/4
Max Flow (gpm)	39.1	122.0	124.5
Max Head (ft.)	59.6	85.1	85.2
Max SG	1.8	1.8	1.8
HP*	1/2 - 1	1 - 3	1 - 3
kW*	.25 - .37	.37 - 1.5	.37 - 1.5
Imp. Dia	3.0, 3.25, 3.5	4.0, 4.25, 4.5, 4.75	3.0, 3.25, 3.5, 3.75, 4.5
316SS Base Starting $	1927.00	2294.00	2294.00

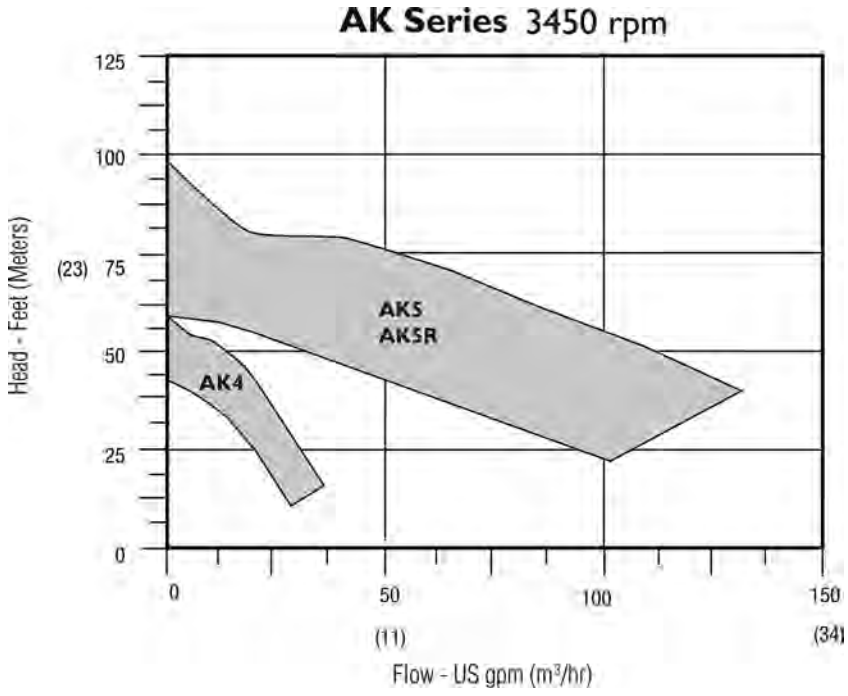
*HP calculated at 3500 rpm. kW calculated at 2900 rpm.

Flows to 124 gpm
Heads to 85 feet

Numerous configurations and options are available.

Pump End, Wet End and Motors sold separately.

Call ALSCO for inquires and ordering 1-800-849-3030.



Centrifugal Pumps

Finish Thompson AV Series



Manufactured from rugged, corrosion resistant 316 stainless steel, AV Series vertical centrifugal pumps are designed to provide years of reliable service. A wide variety of port sizes, impeller diameters and column lengths make AV Series pumps extremely versatile.

Features:
- Durable metal construction
- Excellent chemical resistance
- 1.8 SG with no impeller trim
- Interchangeable components
- Standard vertical, cantilevered or direct drive versions
- Maximum working pressure - 100 psi (6.9 Bar); AV8/8H - 120 psi (8.3 Bar).

Construction:
- Corrosion resistant 316SS (300°F/149°C)
- Standard, recessed or high head impellers
- FKM, EPDM, or PTFE o-rings standard; Other options available
- Carbon, FKM or EPDM lower bushings
- Stainless steel mounting plate & discharge pipe
- 12" (31 cm), 24" (61 cm), 36" (91 cm) and 48" (122 cm) lengths
- TEFC, Chem duty, EXP NEMA or IEC motors
- NPT or BSP threads

Applications:
- Chemical processing, spraying, transfer
- Plating recirculation/filtration, cooling towers, printed circuit boards
- Cleaning, photo processing, pharmaceutical

Typical Chemicals:
- Sodium hydroxide, ethylene/propylene glycols
- Fuel oils, alcohols, caustic cleaners/detergents
- Solvents, waste water, DI water

Base Models include:
- Carbon lower bushing
- FKM O-ring
- NPT thread
- Motor adapter
- 3450 RPM, 115V, 1 Ph, 60 Hz, TEFC Motor

6

Base Starting Price includes: Pump and TEFC Motor

	AV4	AV5	AV6	AV8	AV5H	AV6H	AV8H
Inlet x Outlet (in.)	3/4 - 1/2	1 1/2 x 1 1/4	2 x 1 1/2	2 x 1 1/2	1/2 x 1/4	1 1/4 x 3/4	1 1/4 x 3/4
Max Flow (gpm)	39.1	122.0	216.0	242.0	16.9	100.0	105.5
Max Head (ft.)	59.6	85.1	129.6	247.0	96.0	144.1	263.2
Max SG	1.8	1.8	1.8	1.8	1.8	1.8	1.8
HP*	1/2 - 1	1 - 3	3 - 7 1/2**	7 1/2 - 20**	3/4	3**	7 1/2 - 10**
kW*	.25 - .37	.37 - 1.5	1.1 - 3.0	5.5 - 11.0	.37	1.5	3.0 - 4.0
Imp. Dia	3.0, 3.25, 3.5	4.0, 4.25, 4.5, 4.75	5.25, 5.75, 6.0	6.5, 7.0, 7.5, 8.0	4.75	6.25	7.0, 8.0
316SS Base Starting $	1971.00	2346.00	6212.00	7143.00	2263.00	5698.00	7138.00

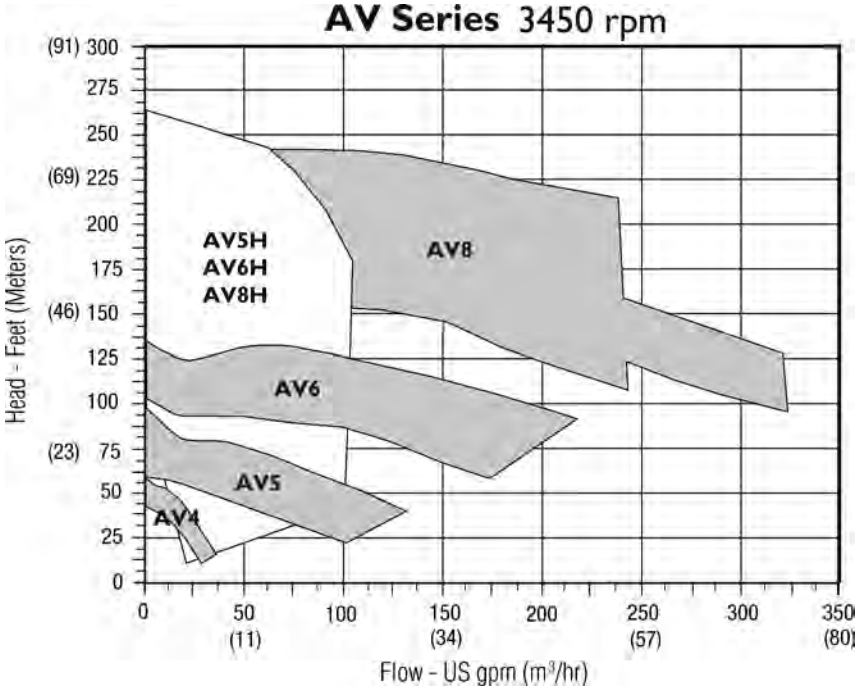
*HP calculated at 3500 rpm. kW calculated at 2900 rpm.
**3 Ph/50-60Hz/230-460V

Flows to 242 gpm
Heads to 263 feet

Numerous configurations and options are available.

Pump End, Wet End and Motors sold separately.

Call ALSCO for inquires and ordering 1-800-849-3030.



ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 010118

Webster Pumps - Horizontal End Suction Pump - Series C5, C7, & C8



General Description

The C5, C7, and C8 Series pumps are designed specifically for continuous chemical duty service. Units are available in CPVC Corzan®, fiberglass reinforced Polypropylene, and PVDF (Solef®) with ratings of 1/3, 1, and 1 1/2 HP.

Applications

- **Plating**
- **Electronics**
- **Photo Processing**
- **Pollution Control**
- **Chemical Processing**
- **Water Treatment**

Features

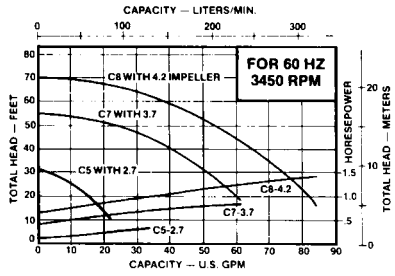
- **Optimum chemical resistance with choice of precision molded CPVC Corzan®, fiberglass reinforced PP or PVDF (Solef®)**
- **No metal in contact with fluid being pumped**
- **Fpm® seal elastomers and "O" ring**
- **300 series stainless steel shaft with belt-drive or direct coupled drivers**
- **Dynamically balanced enclosed impellers**

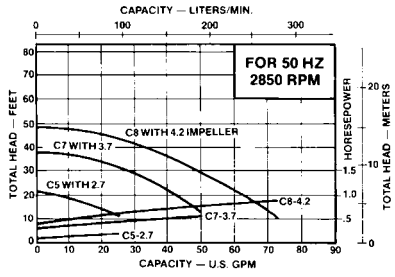
Options

Bearing frame for belt drive or direct coupled drivers, Double water-flushed seal, PTFE rotary seal faces and Carpenter 20 or Pink Ceramic seal seats

Specifications

Maximum Limits:
Liquid Temperature:
CPVC -20° to 180° F
Polypropylene -20° to 180°F
(220°Fwith water flushed seals)
PVDF -20° to 220°F
(260°F with water flushed seals)
Working Pressure: 35 psi
Motor: Heavy duty, epoxy painted, totally enclosed, 56C frame motors.
Single Phase: 3450/2850 rpm, 115/230 volt, 60/50 Hz. Include automatic thermal overload protection. Wired for 230 volts.





Part #	Price	HP	Volts	Phase	Suction*	Discharge *	Wt. Lbs.
CPVC Corzan® 3450 / 2850 RPM 60 / 50 HZ MOTORS							
C5-2013	$1752.85	1/3	115/230	1	3/4" NPT	1/2" NPT	31
C7-2014	$2016.85	1	115/230	1	1" NPT	3/4" NPT	36
C8-2015	$2139.30	1 1/2	115/230	1	1 1/4" NPT	1" NPT	41
FIBERGLASS REINFORCED POLYPROPYLENE 3450 / 2850 RPM 60 / 50 HZ MOTORS							
C5-2016	$1874.25	1/3	115/230	1	3/4" NPT	1/2" NPT	30
C7-2017	$2139.30	1	115/230	1	1" NPT	3/4" NPT	35
C8-2018	$2279.05	1 1/2	115/230	1	1 1/4" NPT	1" NPT	40
PVDF (SOLEF®) 3450 / 2850 RPM 60 / 50 HZ MOTORS							
C5-2019	$2605.10	1/3	115/230	1	3/4" NPT	1/2" NPT	32
C7-2020	$2904.65	1	115/230	1	1" NPT	3/4" NPT	37
C8-2021	$3384.65	1 1/2	115/230	1	1 1/4" NPT	1" NPT	42

* The outside diameter (OD) port dimensions for the C5, C7, and C8 models in CPVC are also nominal pipe diameters. This permits solvent welding of CPVC plumbing connections to the suction and discharge ports of these models.
Discharge and suction connections are female (internal) pipe connections. Note: 3 phase also available.

All prices subject to change without notice.

Pumps

Webster Pumps - Seal-Less Immersible Pumps - Marathon Series S2 / S4 / S5 / SS6 / SS7 / S8



Features

- Virtually maintenance free
- Optimum chemical resistance with choice of CPVC, fiberglass reinforce Polypropylene, or PVDF (Solef®)
- Available in ratings of 1/3, 1/2, 3/4, and 1 1/2 HP, continuous duty
- No metal in contact with fluid being pumped
- Seal-less design eliminates leaking, costly seal replacement
- Fpm® "O" ring end cover seal allows mounting in liquid, or with inlet extension
- Non-overloading, continuous duty totally enclosed motors
- PTFE® fume barrier protects motor end bell and bearings from corrosion caused by vapor or fumes

Specifications

Maximum Limits:

Liquid Temperature:
CPVC -20° to 180° F
Polypropylene -20° to 200°F
PVDF -20° to 260°F

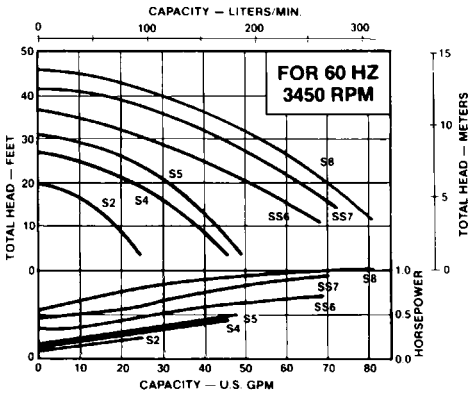
Motor: Heavy duty, epoxy painted 56C frame, ball bearing motors.

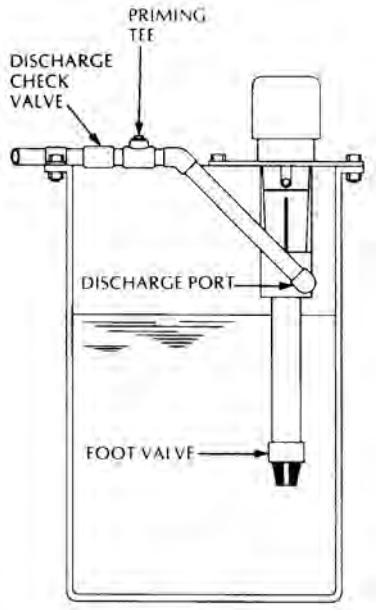
Application

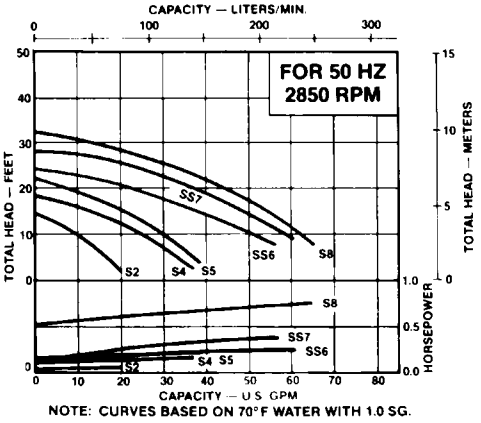
- Plating
- Chemical processing
- Electronics
- Photo processing
- Pollution control
- Water treatment

Part #	Price	HP	Volts	Phase	Suction*	Discharge *	Wt. Lbs.
CPVC Corzan® 3450 / 2850 RPM 60 / 50 HZ MOTOR							
S2-2030	$1482.00	1/3	115/230	1	1" NPT	3/4" NPT	26
S4-2031	$1659.75	1/2	115/230	1	1 1/4" NPT	1" NPT	31
S5-2032	$1823.60	3/4	115/230	1	1 1/4" NPT	1" NPT	35
SS6-2033	$2204.25	3/4	115/230	1	1 1/2" NPT	1 1/4" NPT	39
SS7-2034	$2304.30	1	115/230	1	1 1/2" NPT	1 1/4" NPT	42
S8-2035	$2374.05	1 1/2	115/230	1	1 1/2" NPT	1 1/4" NPT	45
FIBERGLASS REINFORCED POLYPROPYLENE 3450 / 2850 RPM 60 / 50 HZ MOTOR							
S2-2036	$1464.25	1/3	115/230	1	1" NPT	3/4" NPT	25
S4-2037	$1730.65	1/2	115/230	1	1 1/4" NPT	1" NPT	30
S5-2038	$1949.50	3/4	115/230	1	1 1/4" NPT	1" NPT	34
SS6-2039	$2054.80	3/4	115/230	1	1 1/2" NPT	1 1/4" NPT	38
SS7-2040	$2300.05	1	115/230	1	1 1/2"NPT	1 1/4" NPT	41
S8-2041	$2437.85	1 1/2	115/230	1	1 1/2" NPT	1 1/4" NPT	44
PVDF (SOLEF®) 3450 / 2850 RPM 60 / 50 HZ MOTOR							
S2-2042	$2125.75	1/3	115/230	1	1" NPT	3/4" NPT	27
S4-2043	$2300.05	1/2	115/230	1	1 1/4" NPT	1" NPT	32
S5-2044	$2589.85	3/4	115/230	1	1 1/4" NPT	1" NPT	36
SS6-2045	$2715.35	3/4	115/230	1	1 1/2" NPT	1 1/4" NPT	40
SS7-2046	$2798.40	1	115/230	1	1 1/2" NPT	1 1/4" NPT	43
S8-2047	$3144.90	1 1/2	115/230	1	1 1/2" NPT	1 1/4" NPT	46

* Suction connections are male (external) pipe threads. Discharge connections are female (internal) pipe threads







NOTE: CURVES BASED ON 70°F WATER WITH 1.0 SG.

Centrifugal Pumps

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Webster Pumps - Industrial Seal-Less Immersible Pumps - Marathon Series S12 / S16



General Description

The "S12" and "S16" Series are rugged, chemical duty pumps available in CPVC. Precision molded, dynamically balanced, enclosed impellers with unique, "tandem" design allow pumping of abrasive solutions, ability to run dry indefinitely, and operating against closed discharge valve. Ratings of 3 and 5 HP for continuous duty operation.

Application

- Plating
- Chemical processing
- Electronics
- Photo processing
- Pollution control
- Water treatment

Features

- **Virtually maintenance free**
- **CPVC construction for optimum chemical resistance**
- **No metal in contact with fluid being pumped**
- **Seal-less design eliminates leaking, costly seal replacement and down-time**
- **Fpm® "O" ring end cover seal allows mounting in liquid, or with inlet extension**
- **Non-overloading, continuous duty TEFC motors**
- **PTFE® fume barrier protects motor end bell and bearings from corro-sion caused by vapor or fumes**
- **Includes mounting bracket / dis-charge support and discharge piping to top of mounting bracket.**

Specifications

Maximum Limits:

Liquid Temperature:

CPVC -20° to 180° F

Motor: Heavy duty, epoxy painted, TEFC, sealed ball bearing motors. Motors and pump heads are match-ed for non-overloading, continuous duty throughout the entire pump performance range.

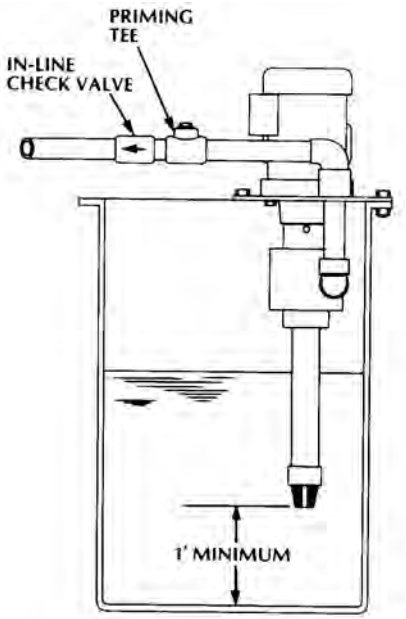
Motor Frame Size: S12 - 145TC
S16 - 184TY

Three Phase: 3450 / 2850 rpm, 208 - 230 / 460 volt, 60 / 50 Hz. 3 phase units require magnetic starter with overload protection, which must be ordered separately

CPVC Corzan® 3450 / 2850 RPM 60 / 50 HZ MOTORS

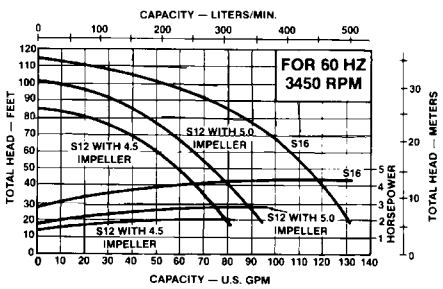
Part #	Price	HP	Volts	Phase	Suction*	Discharge *	Wt. Lbs.
S12-2048	$3307.05	3	208- 230 / 460	3	3" Slip	1 1/2" NPT	75
S12-2049	$3248.40	3	208- 230 / 460	3	3" Slip	1 1/2" NPT	75
S16-2050	$5104.45	5	230 / 460	3	3" Slip	2" NPT	110

* Slip-on suction port connection of standard pipe diameter, for use of tubing or solvent welding of CPVC plumbing. Female (internal) pipe thread discharge connection.

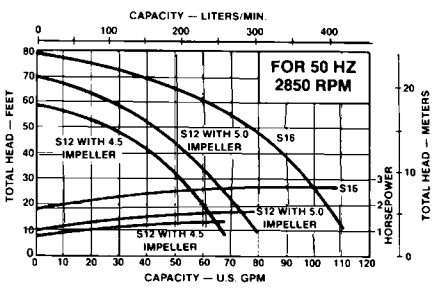


PERFORMANCE CURVES

60 HZ



50 HZ



NOTE: CURVES BASED ON 70° F WATER WITH 1.0 SG.

Webster Pumps - Industrial Seal-Less Immersible Pumps - Marathon Series S1 / SS1



General Description

The "S1" and "SS1" Series are rugged, chemical duty pumps available in CPVC, Polypropylene, and PVDF (Solef®). Precision molded, dynamically balanced, semi-open impellers with unique "tandem" design allow pumping of abrasive solutions, ability to run dry indefinitely, and operating against closed discharge valve. Ratings of 1/15 and 1/8 HP for continuous duty operation.

Application

- Plating
- Chemical processing
- Electronics
- Photo processing
- Pollution control
- Water treatment

Features

- **Virtually maintenance free**
- **Optimum chemical resistance with choice of CPVC, natural Polypropylene, or PVDF (Solef®)**
- **No metal in contact with fluid being pumped**
- **Seal-less design eliminates leaking, costly seal replacement and down-time**
- **Fpm® "O" ring end cover seal allows mounting in liquid, or with inlet extension**
- **Non-overloading, continuous duty TEFC motors**
- **PTFE® fume barrier protects motor end bell and bearings from corrosion caused by vapor or fumes**
- **Integral mounting bracket**

Specifications

Maximum Limits:
Liquid Temperature:
CPVC -20° to 180° F
Polypropylene -20° to 200°F
PVDF -20° to 260°F

Motor: Heavy duty, epoxy painted, with extended 316 series SS shaft, sealed ball bearings. Includes automatic thermal overload protection and 6 foot power cord with 3 prong grounded plug.

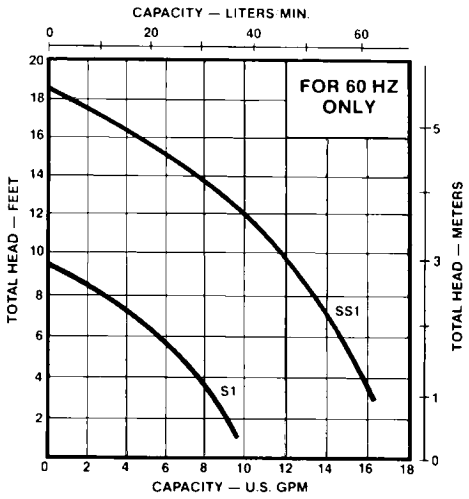
S1 (Single Phase): 3200 rpm, 115 volt, 60 Hz.

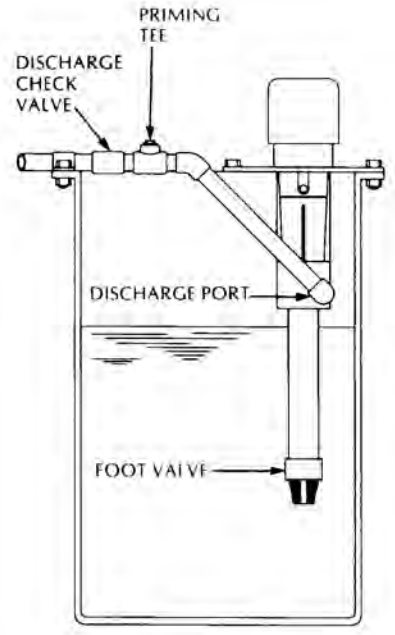
SS1 (Single Phase): 3400 / 2800 rpm, 115 / 230 volt, 60 / 50 Hz. Model wired for 230 volt.

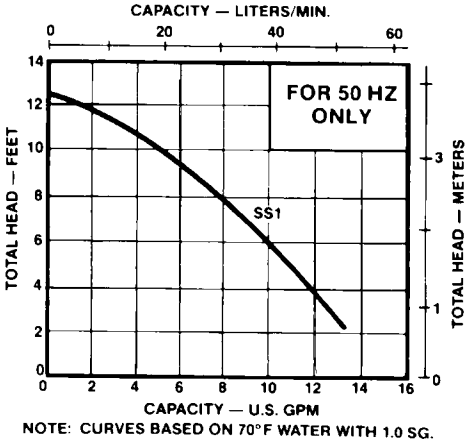
CPVC Natural PP PVDF

Part #	Price	HP	Volts	Phase	Suction*	Discharge *	Wt. Lbs.
CPVC Corzan® 2 POLE RPM 60 / 50 HZ MOTORS							
S1-2024	$720.05	1/15	115	1	3/4" NPT	1/2" NPT	6 1/2
SS1-2025	$1070.20	1/8	115	1	1" NPT	1/2" NPT	8
NATURAL POLYPROPYLENE 2 POLE RPM 60 / 50 HZ MOTORS							
S1-2026	$720.05	1/15	115	1	3/4" NPT	1/2" NPT	6
SS1-2027	$1104.40	1/8	115	1	1" NPT	1/2" NPT	7 1/2
PVDF (SOLEF®) 2 POLE RPM 60 / 50 HZ MOTORS							
S1-2028	$975.80	1/15	115	1	3/4" NPT	1/2" NPT	6 1/2
SS1-2029	$1346.70	1/8	115	1	1" NPT	1/2" NPT	8

* Suction connections have male (external) pipe threads. Discharge connections have female (internal) pipe threads.







NOTE: CURVES BASED ON 70°F WATER WITH 1.0 SG.

Centrifugal Pumps

Finish Thompson Model FT05 1/2" Non-Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 1/2" x 1/2"
- Porting Location: End, Optional FNPT or FBSPT threaded center port location in either horizontal or vertical position
- Connection Types: FNPT, FBSPT
- Air Inlet and Air Exhaust Size: 1/4" FNPT x 1/2" FNPT

Capabilities:
- Maximum Flow Rate: 19 gpm (72 lpm)
- Maximum Air Supply Pressure: 100 psi (6.9 bar)
- Displacement Per Stroke: 0.026 gal (0.10 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.19 in (4.7 mm)
- Sound Pressure: 72.1 dB(A)
- Operating Temperature: Determined by elastomers

Construction:
- Wetted Materials: Polypropylene, PVDF, Conductive Polypropylene
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum, Conductive Acetal
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Polypropylene, PVDF
- O-ring Materials: Buna-N, FKM, Santoprene™, Polyurethane, FEP/FKM

Dimensions:
- Maximum Height: 10-27/32 in (276 mm)
- Maximum Width: 10-3/16 in (259 mm)
- Maximum Depth: 8-1/16 in (204 mm)

Weight:
- Polypropylene: 8.3 lb (3.8 kg)
- PVDF: 11.9 lb (5.4 kg)

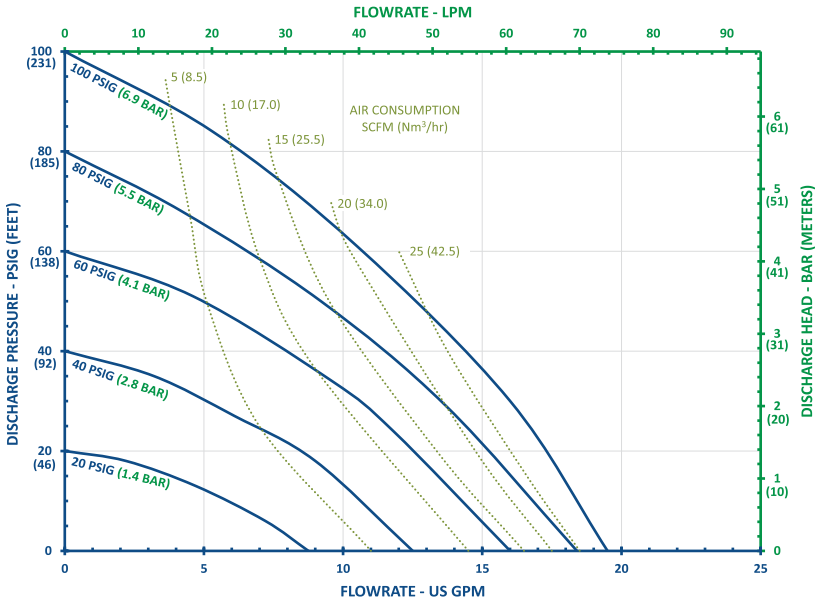
Santoprene™ is a registered tradename of Exxon Mobil Corporation
Hytrel® is a registered tradename of Dupont™



Polypropylene



PVDF



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT05 1/2" Non-Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	Santoprene™	FNPT	FT05P-PP-RRPR-N1	450.00
Polypropylene	Polypropylene	PTFE/Santoprene™	PTFE	Polypropylene	FEP/FKM	FNPT	FT05P-PP-2TPC-N1	579.00
Polypropylene	Polypropylene	EPDM	EPDM	Polypropylene	Buna-N	FNPT	FT05P-PP-EEPB-N1	466.00
PVDF	Polypropylene	Santoprene™	Santoprene™	PVDF	Santoprene™	FNPT	FT05V-PP-RRVR-N1	950.00
PVDF	Polypropylene	PTFE/Santoprene™	PTFE	PVDF	FEP/FKM	FNPT	FT05V-PP-2TVC-N1	1079.00
PVDF	Polypropylene	EPDM	EPDM	PVDF	Buna-N	FNPT	FT05V-PP-EEVB-N1	966.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Finish Thompson Model FT10 1” Non-Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 1” x 1”
- Porting Location: End, Optional FNPT or FBSPT threaded center port location in either horizontal or vertical position.
- Connection Types: ANSI/DIN/ISO Flange, Optional FNPT or FBSPT threaded center port location in either horizontal or vertical position.
- Air Inlet and Air Exhaust Size: 1/2” FNPT x 1/2” FNPT

Capabilities:
- Maximum Flow Rate: 49 gpm (185 lpm)
- Maximum Air Supply Pressure: 100 psi (6.9 bar)
- Displacement Per Stroke: 0.084 gal (0.32 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.25 in (6.4 mm)
- Sound Pressure: 73.6 dB(A)
- Operating temperature: Determined by elastomers

Construction:
- Wetted Materials: Polypropylene, PVDF
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Polypropylene, PVDF
- O-ring Materials: Buna-N, FKM, Santoprene™, Polyurethane, FEP/FKM

Dimensions:
- Maximum Height: 17-7/8 in (454 mm)
- Maximum Width: 16-13/16 in (427 mm)
- Maximum Depth: 10-11/16 in (271 mm)

Weight:
- Polypropylene: 24.0 lb (10.9 kg)
- PVDF: 34.1 lb (15.5 kg)

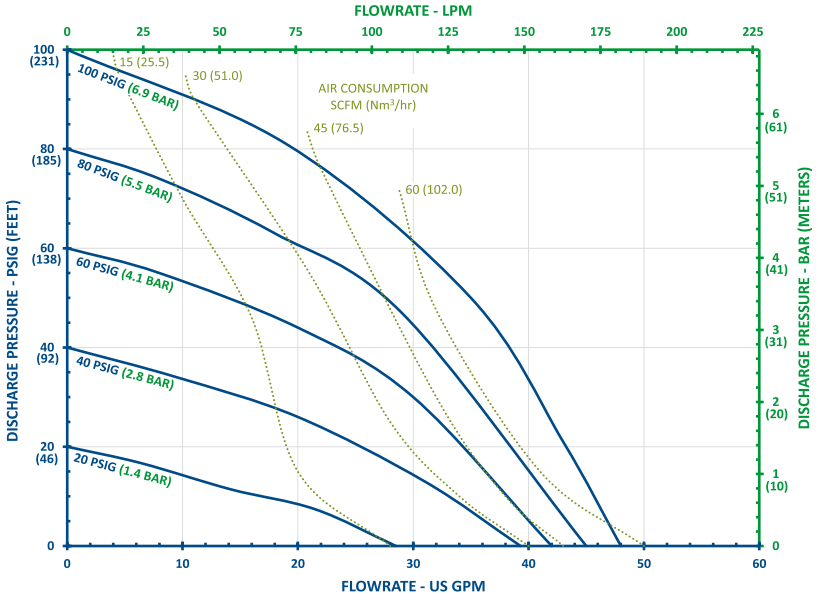
Santoprene™ is a registered tradename of Exxon Mobil Corporation
Hytrel® is a registered tradename of Dupont™



Polypropylene



PVDF



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT10 1” Non-Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	Santoprene™	ANSI/DIN/ISO Flange	FT10P-PP-RRPR-F1	812.00
Polypropylene	Polypropylene	PTFE/Santoprene™	PTFE	Polypropylene	FEP/FKM	ANSI/DIN/ISO Flange	FT10P-PP-2TPC-F1	984.00
Polypropylene	Polypropylene	EPDM	EPDM	Polypropylene	Buna-N	ANSI/DIN/ISO Flange	FT10P-PP-EEPB-F1	846.00
PVDF	Polypropylene	Santoprene™	Santoprene™	PVDF	Santoprene™	ANSI/DIN/ISO Flange	FT10V-PP-RRVR-F1	2128.00
PVDF	Polypropylene	PTFE/Santoprene™	PTFE	PVDF	FEP/FKM	ANSI/DIN/ISO Flange	FT10V-PP-2TVC-F1	2302.00
PVDF	Polypropylene	EPDM	EPDM	PVDF	Buna-N	ANSI/DIN/ISO Flange	FT10V-PP-EEVB-F1	2163.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Finish Thompson Model FT15Z 1.5” Non-Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 1.5” x 1.5”
- Porting Location: End, Optional FNPT or FBSPT threaded center port location in either horizontal or vertical position
- Connection Types: ANSI/DIN/ISO Flange with FNPT or FBSPT Threads
- Air Inlet and Air Exhaust Size: 1/2” FNPT x 3/4” FNPT

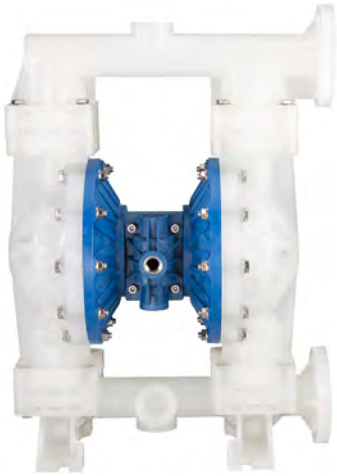
Capabilities:
- Maximum Flow Rate: 125 gpm (473 lpm)
- Maximum Air Supply Pressure: 100 psig (6.9 bar)
- Displacement Per Stroke: 0.24 gal (0.91 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.38 in (9.7 mm)
- Sound Pressure: 77 dB(A)
- Operating temperature: Determined by elastomers

Construction:
- Wetted Materials: Polypropylene, PVDF
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Polypropylene, PVDF, Aluminum, 316SS, PTFE, Neoprene, Buna-N, EPDM, FKM, Santoprene™, Hytrel®, Polyurethane
- O-ring Materials: Buna-N, FKM, Santoprene™, Polyurethane, FEP/FKM, Neoprene, EPDM

Dimensions:
- Maximum Height: 26-5/8 in (677 mm)
- Maximum Width: 18-11/16 in (475 mm)
- Maximum Depth: 11-13/32 in (290 mm)

Weight:
- Polypropylene: 41.0 lb (18.6 kg)
- PVDF: 60.0 lb (27.2 kg)

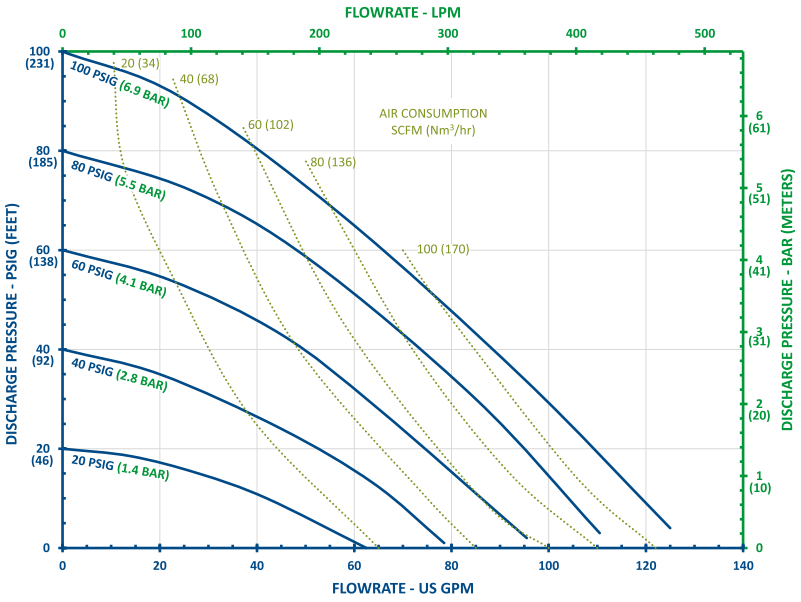
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Polypropylene



PVDF



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT15Z 1.5” Non-Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	Santoprene™	FNPT	FT15ZP-PP-RRPR-N1	1935.00
Polypropylene	Polypropylene	PTFE/Santoprene™	PTFE	Polypropylene	FEP/FKM	FNPT	FT15ZP-PP-2TPC-N1	2297.00
Polypropylene	Polypropylene	EPDM	EPDM	Polypropylene	EPDM	FNPT	FT15ZP-PP-EEPE-N1	1933.00
PVDF	Polypropylene	Santoprene™	Santoprene™	PVDF	Santoprene™	FNPT	FT15ZV-PP-RRVR-N1	5454.00
PVDF	Polypropylene	PTFE/Santoprene™	PTFE	PVDF	FEP/FKM	FNPT	FT15ZV-PP-2TVC-N1	5816.00
PVDF	Polypropylene	EPDM	EPDM	PVDF	EPDM	FNPT	FT15ZV-PP-EEVE-N1	5452.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Finish Thompson Model FT20 2” Non-Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 2” x 2”
- Porting Location: End
- Connection Types: ANSI/DIN/ISO Flange
- Air Inlet and Air Exhaust Size: 3/4” FNPT x 3/4” FNPT

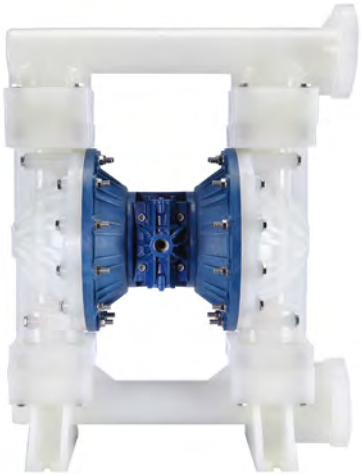
Capabilities:
- Maximum Flow Rate: 154 gpm (583 lpm)
- Maximum Air Supply Pressure: 100 psig (6.9 bar)
- Displacement Per Stroke: 0.31 gal (1.2 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.35 in (8.9 mm)
- Sound Pressure: 77 dB(A)
- Operating temperature: Determined by elastomers

Construction:
- Wetted Materials: Polypropylene, PVDF
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Polypropylene, PVDF
- O-ring Materials: Buna-N, FKM, Santoprene™, Polyurethane, FEP/FKM

Dimensions:
- Maximum Height: 31-11/16 in (805 mm)
- Maximum Width: 23-19/32 in (600 mm)
- Maximum Depth: 12-27/32 in (326 mm)

Weight:
- Polypropylene: 67.0 lb (30.4 kg)
- PVDF: 97.5 lb (44.2 kg)

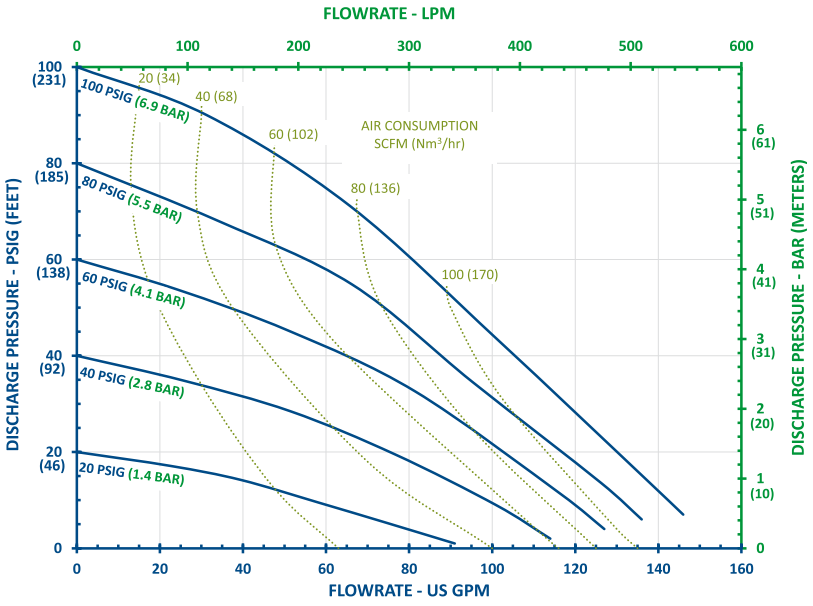
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Polypropylene



PVDF



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT20 2” Non-Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	Santoprene™	ANSI/DIN/ISO Flange	FT20P-PP-RRPR-F1	2746.00
Polypropylene	Polypropylene	PTFE/Santoprene™	PTFE	Polypropylene	FEP/FKM	ANSI/DIN/ISO Flange	FT20P-PP-2TPC-F1	3109.00
Polypropylene	Polypropylene	EPDM	EPDM	Polypropylene	Buna-N	ANSI/DIN/ISO Flange	FT20P-PP-EEPB-F1	2744.00
PVDF	Polypropylene	Santoprene™	Santoprene™	PVDF	Santoprene™	ANSI/DIN/ISO Flange	FT20V-PP-RRVR-F1	6662.00
PVDF	Polypropylene	PTFE/Santoprene™	PTFE	PVDF	FEP/FKM	ANSI/DIN/ISO Flange	FT20V-PP-2TVC-F1	7024.00
PVDF	Polypropylene	EPDM	EPDM	PVDF	Buna-N	ANSI/DIN/ISO Flange	FT20V-PP-EEVB-F1	6660.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Finish Thompson Model FT05 1/2” Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 1/2” x 1/2”
- Porting Location: End, Optional FNPT or FBSPT threaded center port location in either horizontal or vertical position
- Connection Types: FNPT, FBSPT
- Air Inlet and Air Exhaust Size: 1/4” FNPT x 1/2” FNPT

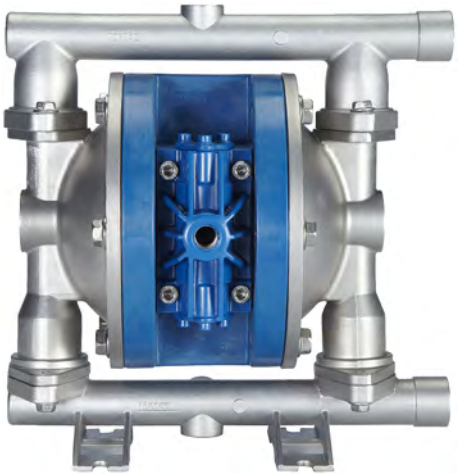
Capabilities:
- Maximum Flow Rate: 20 gpm (76 lpm)
- Maximum Air Supply Pressure: 120 psi (8.3 bar)
- Displacement Per Stroke: 0.026 gal (0.10 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.19 in (4.7 mm)
- Sound Pressure: 72.1 dB(A)
- Operating Temperature: Determined by elastomers

Construction:
- Wetted Materials: Aluminum, 316SS
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Aluminum, 316SS, PTFE
- O-ring Materials: Neoprene, Buna-N, EPDM, FKM, PTFE, FEP/FKM

Dimensions:
- Maximum Height: 9-27/32 in (250 mm)
- Maximum Width: 9-5/8 in (246 mm)
- Maximum Depth: 8-1/16 in (204 mm)

Weight:
- Aluminum: 11.7 lb (5.3 kg)
- Stainless Steel: 15.5 lb (7.0 kg)

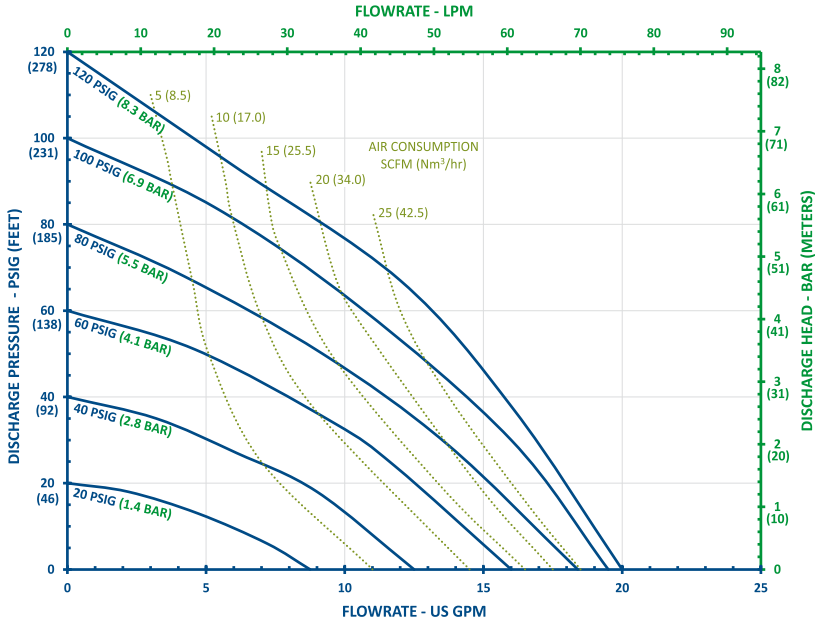
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Stainless Steel



Aluminum



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT05 1/2” Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Aluminum	Aluminum	Santoprene™	Santoprene™	Aluminum	PTFE	FNPT	FT05A-AA-RRAT-N1	466.00
Aluminum	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT05A-AA-2TTC-N1	596.00
Aluminum	Aluminum	EPDM	EPDM	Aluminum	EPDM	FNPT	FT05A-AA-EEAE-N1	483.00
Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	FNPT	FT05S-AA-RRST-N1	1019.00
Stainless Steel	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT05S-AA-2TTC-N1	1148.00
Stainless Steel	Aluminum	EPDM	EPDM	Stainless Steel	EPDM	FNPT	FT05S-AA-EESE-N1	1035.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Diaphragm Pumps

Finish Thompson Model FT10 1” Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 1” x 1”
- Porting Location: End, Optional FNPT or FBSPT threaded center port location in either horizontal or vertical position
- Connection Types: FNPT, FBSPT
- Air Inlet and Air Exhaust Size: 1/2” FNPT x 1/2” FNPT

Capabilities:
- SS Maximum Flow Rate: 56 gpm (212 lpm)
- AL Maximum Flow Rate: 51 gpm (193 lpm)
- Maximum Air Supply Pressure: 120 psi (8.3 bar)
- Displacement Per Stroke: 0.084 gal (0.32 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.25 in (6.4 mm)
- Sound Pressure: 73.6 dB(A)
- Operating Temperature: Determined by elastomers

Construction:
- Wetted Materials: 316SS, Aluminum
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Aluminum, 316SS, PTFE
- O-ring Materials: Neoprene, Buna-N, EPDM, FKM, PTFE, FEP/FKM

SS Dimensions:
- Maximum Height: 14-3/16 in (360 mm)
- Maximum Width: 14-5/16 in (364 mm)
- Maximum Depth: 10-11/16 in (271 mm)

AL Dimensions:
- Maximum Height: 14-13/32 in (366 mm)
- Maximum Width: 14-3/4 in (375 mm)
- Maximum Depth: 10-11/16 in (271 mm)

Weight:
- Stainless Steel: 48.7 lb (22.1 kg)
- Aluminum: 34.2lb (15.5 kg)

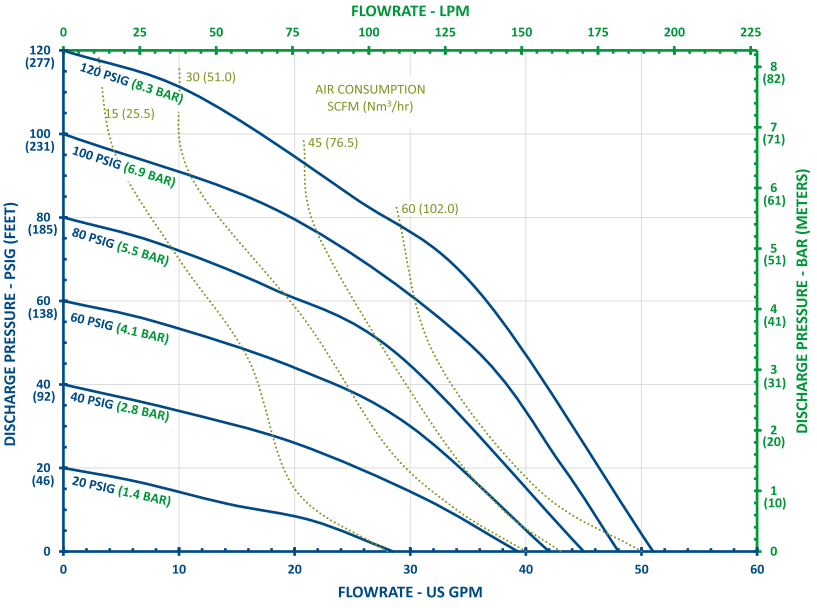
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Stainless Steel



Aluminum



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT10 1” Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Aluminum	Aluminum	Santoprene™	Santoprene™	Aluminum	PTFE	FNPT	FT10A-AA-RRAT-N1	755.00
Aluminum	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT10A-AA-2TTC-N1	928.00
Aluminum	Aluminum	EPDM	EPDM	Aluminum	EPDM	FNPT	FT10A-AA-EEAE-N1	789.00
Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	FNPT	FT10S-AA-RRST-N1	1743.00
Stainless Steel	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT10S-AA-2TTC-N1	1915.00
Stainless Steel	Aluminum	EPDM	EPDM	Stainless Steel	EPDM	FNPT	FT10S-AA-EESE-N1	1778.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Diaphragm Pumps

Finish Thompson Model FT15Z 1.5” Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 1.5” x 1.5”
- Porting Location: Center Horizontal, Optional FNPT or FBSPT threaded center port location in vertical position.
- Connection Types: FNPT, FBSPT, Optional for Stainless Steel - ANSI/DIN/ISO flange or 2” tri-clamp connection upgrade available upon request.
- Air Inlet and Air Exhaust Size: 1/2” FNPT x 3/4” FNPT

Capabilities:
- Maximum Flow Rate: 133 gpm (503 lpm)
- Maximum Air Supply Pressure: 120 psi (8.3 bar)
- Displacement Per Stroke: 0.24 gal (0.91 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.38 in (9.7 mm)
- Sound Pressure: 77 dB(A)
- Operating temperature: Determined by elastomers

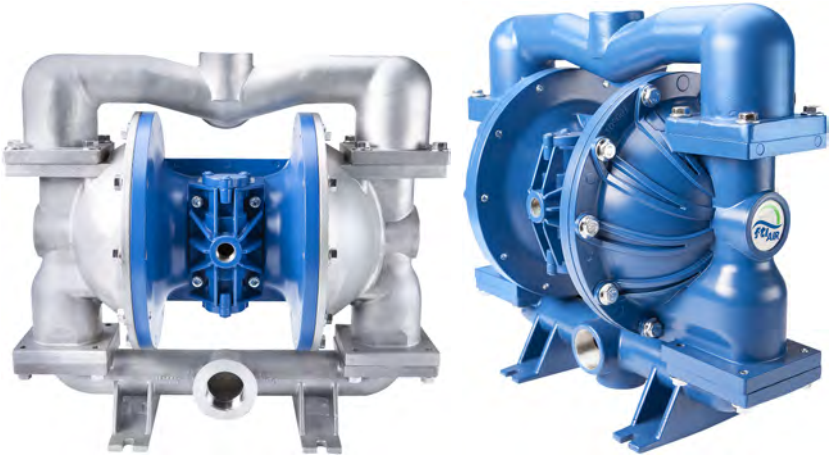
Construction:
- Wetted Materials: 316SS, Aluminum
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Aluminum, 316SS, PTFE, Hytrel®, Buna-N, Neoprene, EPDM, FKM, Santoprene™, Polyurethane
- O-ring Materials: Neoprene, Buna-N, EPDM, FKM, PTFE, FEP/FKM, Santoprene™, Polyurethane

SS Dimensions:
- Maximum Height: 18-31/32 in (482 mm)
- Maximum Width: 19-7/16 in (494 mm)
- Maximum Depth: 11-13/32 in (290 mm)

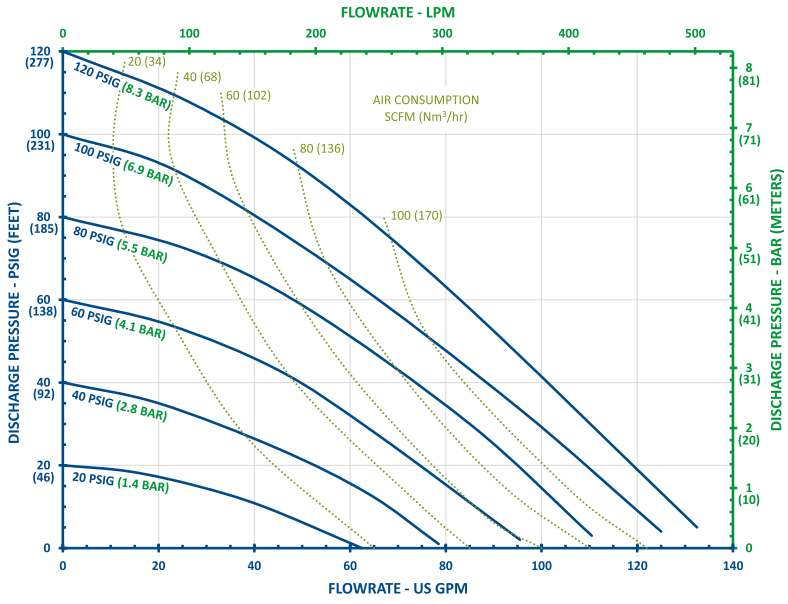
AL Dimensions:
- Maximum Height: 17-1/2 in (445 mm)
- Maximum Width: 19-7/16 in (494 mm)
- Maximum Depth: 11-13/32 in (290 mm)

Weight:
- Stainless Steel: 98 lb (44.5 kg)
- Aluminum: 52 lb (23.6 kg)

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Stainless Steel **Aluminum**



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT15Z 1.5” Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Aluminum	Aluminum	Santoprene™	Santoprene™	Aluminum	PTFE	FNPT	FT15ZA-AA-RRAT-N2	1262.00
Aluminum	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT15ZA-AA-2TTC-N2	1800.00
Aluminum	Aluminum	EPDM	EPDM	Aluminum	EPDM	FNPT	FT15ZA-AA-EEAE-N2	1242.00
Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	FNPT	FT15ZS-AA-RRST-N2	3515.00
Stainless Steel	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT15ZS-AA-2TTC-N2	3774.00
Stainless Steel	Aluminum	EPDM	EPDM	Stainless Steel	EPDM	FNPT	FT15ZS-AA-EESE-N2	3496.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Diaphragm Pumps

Finish Thompson Model FT20 2” Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 2” x 2”
- Porting Location: Center
- Connection Types: FNPT, FBSPT, Optional for Stainless Steel - ANSI/DIN/ISO Flange
- Air Inlet and Air Exhaust Size: 3/4” FNPT x 3/4” FNPT

Capabilities:
- Maximum Flow Rate: 156 gpm (590 lpm)
- Maximum Air Supply Pressure: 120 psi (8.3 bar)
- Displacement Per Stroke: 0.31 gal (1.2 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.35 in (8.9 mm)
- Sound Pressure: 77 dB(A)
- Operating temperature: Determined by elastomers

Construction:
- Wetted Materials: 316SS, Aluminum
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Aluminum, 316SS, PTFE, Hytrel®, Buna-N, Neoprene, EPDM, FKM, Santoprene™, Polyurethane
- O-ring Materials: Neoprene, Buna-N, EPDM, FKM, PTFE, FEP/FKM

SS Dimensions:
- Maximum Height: 30-3/32 in (765 mm)
- Maximum Width: 20-15/32 in (520 mm)
- Maximum Depth: 12-27/32 in (326 mm)

AL Dimensions:
- Maximum Height: 28-7/8 in (733 mm)
- Maximum Width: 20-7/8 in (530 mm)
- Maximum Depth: 12-27/32 in (326 mm)

Weight:
- Stainless Steel: 130 lb (59.9 kg)
- Aluminum: 87 lb (39.5 kg)

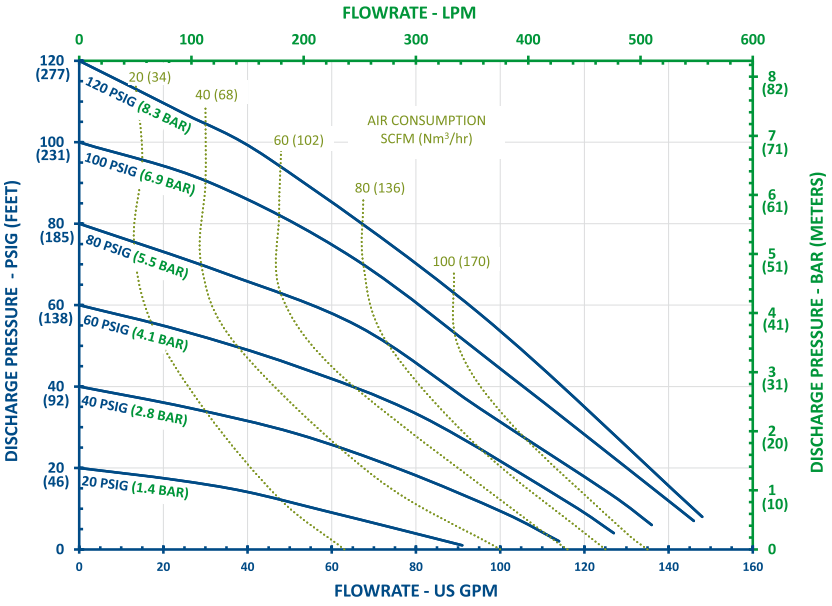
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Stainless Steel



Aluminum



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT20 2” Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Aluminum	Aluminum	Santoprene™	Santoprene™	Aluminum	PTFE	FNPT	FT20A-AA-RRAT-N2	1334.00
Aluminum	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT20A-AA-2TTC-N2	1880.00
Aluminum	Aluminum	EPDM	EPDM	Aluminum	EPDM	FNPT	FT20A-AA-EEAE-N2	1314.00
Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	FNPT	FT20S-AA-RRST-N2	4266.00
Stainless Steel	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT20S-AA-2TTC-N2	4524.00
Stainless Steel	Aluminum	EPDM	EPDM	Stainless Steel	EPDM	FNPT	FT20S-AA-EESE-N2	4246.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

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Diaphragm Pumps

Finish Thompson Model FT30 3” Metallic Diaphragm Pumps

Specifications:
- Suction and Discharge Size: 3” x 3”
- Porting Location: Center
- Connection Types: FNPT, FBSPT, Optional for Stainless Steel - ANSI/DIN/ISO Flange
- Air Inlet and Air Exhaust Size: 3/4” FNPT x 3/4” FNPT

Capabilities:
- Maximum Flow Rate: 240 gpm (908 lpm)
- Maximum Air Supply Pressure: 120 psi (8.3 bar)
- Displacement Per Stroke: 0.98 gal (3.7 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.5 in (12.7 mm)
- Sound Pressure: 86.5 dB(A)
- Operating temperature: Determined by elastomers

Construction:
- Wetted Materials: 316SS, Aluminum
- Diaphragm Materials: Neoprene, Santoprene™, FKM, EPDM, PTFE, Buna-N, Hytrel®, Polyurethane
- Air Valve: GFRPP, Aluminum
- Ball Materials: Neoprene, Buna-N, EPDM, FKM, Santoprene™, PTFE, 316SS
- Seat Materials: Aluminum, 316SS, PTFE, Hytrel®, Buna-N, Neoprene, EPDM, FKM, Santoprene™, Polyurethane
- O-ring Materials: Neoprene, Buna-N, EPDM, FKM, PTFE, FEP/FKM

SS Dimensions:
- Maximum Height: 36-3/8 in (924 mm)
- Maximum Width: 24-9/32 in (617 mm)
- Maximum Depth: 16-3/8 in (416 mm)

AL Dimensions:
- Maximum Height: 34-13/16 in (884 mm)
- Maximum Width: 24-9/32 in (617 mm)
- Maximum Depth: 16-3/8 in (416 mm)

Weight:
- Stainless Steel: 235 lb (107 kg)
- Aluminum: 155 lb (70.3 kg)

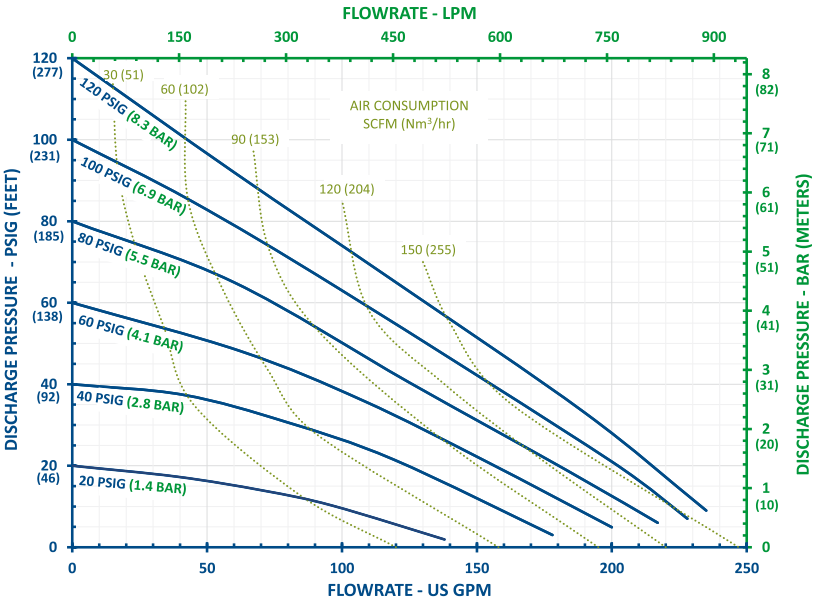
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Hytrel® is a registered tradename of Dupont™



Stainless Steel



Aluminum



Note: Full stroke diaphragm allows performance to be equal for all elastomers.

Finish Thompson Model FT30 3” Metallic Diaphragm Pumps

Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
Aluminum	Aluminum	Santoprene™	Santoprene™	Aluminum	PTFE	FNPT	FT30A-AA-RRAT-N2	2329.00
Aluminum	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT30A-AA-2TTC-N2	3519.00
Aluminum	Aluminum	EPDM	EPDM	Aluminum	EPDM	FNPT	FT30A-AA-EEAE-N2	2329.00
Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	FNPT	FT30S-AA-RRST-N2	7261.00
Stainless Steel	Aluminum	PTFE/Santoprene™	PTFE	PTFE	FEP/FKM	FNPT	FT30S-AA-2TTC-N2	8280.00
Stainless Steel	Aluminum	EPDM	EPDM	Stainless Steel	EPDM	FNPT	FT30S-AA-EESE-N2	7261.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Diaphragm Pumps

Finish Thompson FDA Polypropylene Diaphragm Pumps

Polypropylene Pumps:
- FDA compliant unfilled polypropylene wetted components
- Smooth, easy to clean finish
- Polypropylene or powder coated aluminum non-wetted parts
- Stainless steel fasteners
- Threaded or ANSI/DIN/ISO flanged connections (connection options vary by pump size)

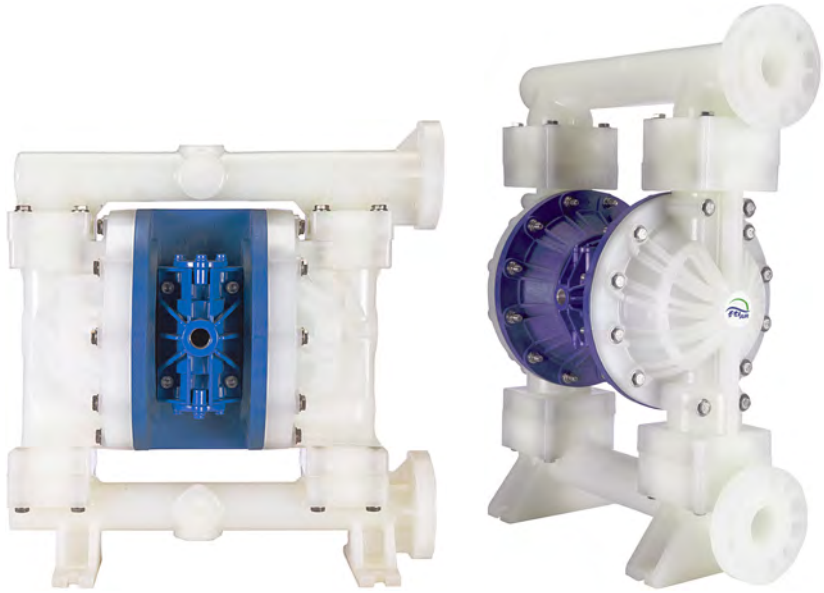
Features:
- Simple, durable design
- Non-stalling air valve
- Lube free operation
- On/Off reliability
- Ease of operation and maintenance
- Delicate/shear-sensitive product handling

Construction:
- FDA Diaphragm Materials: Santoprene™, Hytrel®, Buna-N (black), PTFE/Santoprene™, PTFE/Buna-N (black)
- FDA Check Ball Materials: Santoprene™, PTFE, Weighted PTFE, 316 Stainless Steel

Maximum Solids Size:
- 1/2" - .19" (4.7 mm)
- 1" - .25" (6.4 mm)
- 1 1/2" - .35" (8.9 mm)
- 2" - .35" (8.9 mm)

Maximum Viscosity:
- 1/2" - up to 5,000 cP
- 1" - up to 10,000 cP
- 1 1/2" - up to 20,000 cP
- 2" - up to 20,000 cP

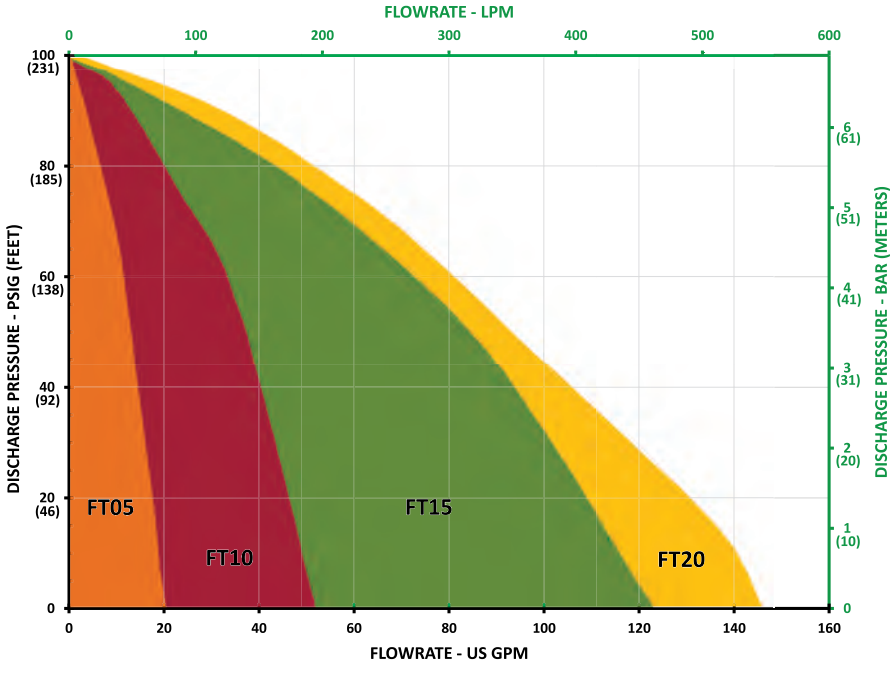
Santoprene™ is a registered tradename of Exxon Mobil Corporation
Hytrel® is a registered tradename of Dupont™



CFR 21.177

5 YEAR WARRANTY

USA Designed, Engineered & Assembled



Finish Thompson FDA Polypropylene Diaphragm Pumps

Pump Size	Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
1/2"	Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	FKM	FNPT	FT05P-PP-55PC-N1	517.00
1"	Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	FKM	ANSI/DIN/ISO Flange	FT10P-PP-55PC-F1	919.00
1 1/2"	Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	FKM	FNPT	FT15ZP-PP-55PC-N1	2187.00
2"	Polypropylene	Polypropylene	Santoprene™	Santoprene™	Polypropylene	FKM	ANSI/DIN/ISO Flange	FT20P-PP-55PC-F1	2999.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Diaphragm Pumps

Finish Thompson FDA Stainless Steel Diaphragm Pumps

Stainless Steel Pump:
- 316L stainless steel wetted components, passivated with satin finish
- RA 200µ-in/5.1µm finish
- Tri-clamp connections
- Powder coated aluminum or polypropylene non-wetted parts
- Stainless steel hardware
- FDA-grade wetted component options
- ATEX option

Features:
- Simple, durable design
- Non-stalling air valve
- Lube free operation
- On/Off reliability
- Ease of operation and maintenance
- Delicate/shear-sensitive product handling

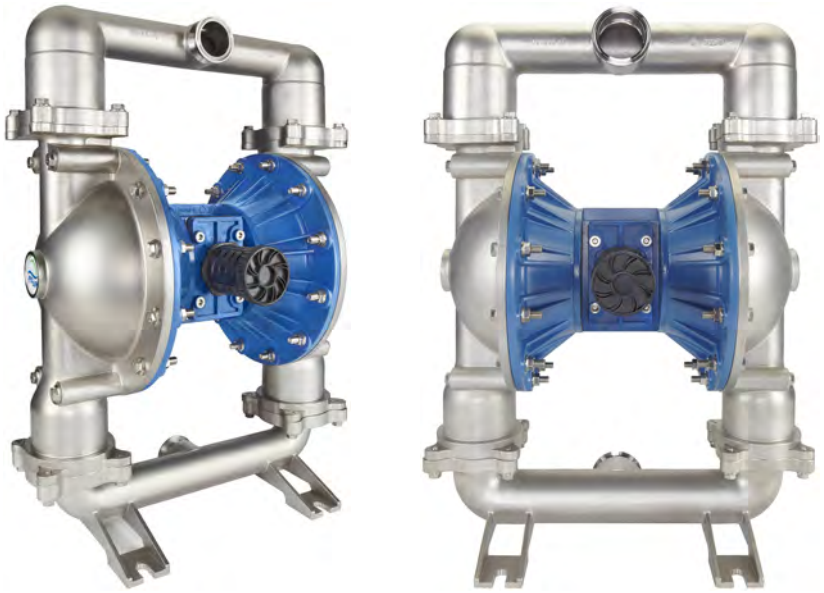
Construction:
- FDA Diaphragm Materials: Santoprene™, Hytrel®, Buna-N (black), PTFE/Santoprene™, PTFE/Buna-N (black)
- FDA Check Ball Materials: Santoprene™, PTFE, Weighted PTFE, 316 Stainless Steel

Maximum Solids Size:
- 1/2" - .19" (4.7 mm)
- 1" - .25" (6.4 mm)
- 1 1/2" - .35" (8.9 mm)
- 2" - .35" (8.9 mm)
- 3" - .5" (12.7 mm)

Maximum Viscosity:
- 1/2" - up to 5,000 cP
- 1" - up to 10,000 cP
- 1 1/2" - up to 20,000 cP
- 2" - up to 20,000 cP
- 3" - up to 25,000 cP

Inlet/Outlet:
- 1/2" - 1" tri-clamp
- 1" - 1 1/2" tri-clamp
- 1 1/2" - 2" tri-clamp
- 2" - 2 1/2" tri-clamp
- 3" - 4" tri-clamp

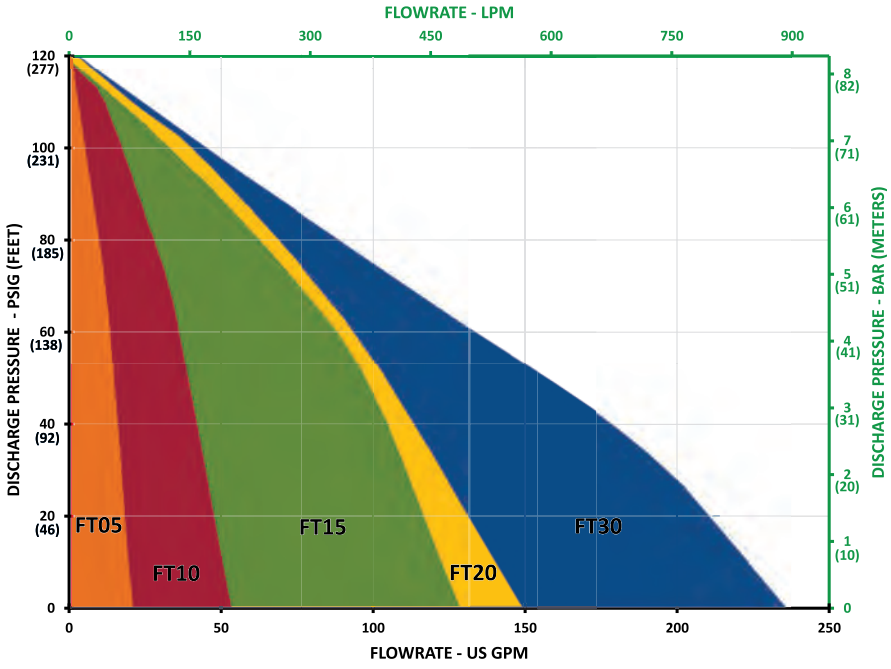
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Hytrel® is a registered tradename of Dupont™



CFR 21.177

5 YEAR WARRANTY

USA Designed, Engineered & Assembled



Finish Thompson FDA Stainless Steel Diaphragm Pumps

Pump Size	Wetted	Non-Wetted	Diaphragm	Valve / Ball	Valve Seat	O-Ring	Connection	Part #	Price $
1/2"	Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	1" Tri-Clamp	FT05S-AA-55ST-T1	1077.00
1"	Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	1 1/2" Tri-Clamp	FT10S-AA-55ST-T1	1818.00
1 1/2"	Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	2" Tri-Clamp	FT15ZS-AA-55ST-T2	3625.00
2"	Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	2 1/2" Tri-Clamp	FT20S-AA-55ST-T2	4396.00
3"	Stainless Steel	Aluminum	Santoprene™	Santoprene™	Stainless Steel	PTFE	4" Tri-Clamp	FT30S-AA-55ST-T2	7582.00

Note: Other materials and configurations available. Contact sales department for information at 800-849-3030.

Finish Thompson Air Batch Controller

The FTI Air Batch Controller is an electronic device that controls the number of pump cycles by managing on/off output to a solenoid installed in the pumps air supply.

The batch controller counts pump cycles and controls the output to the air control solenoid based on a user setting for number of cycles per batch (automatically turning the pump on/off).

Batch/volume pumped estimates can be made using published displacement per stroke value for each pump size (displacement is shown per stroke; batch controller counts cycles which is two strokes).

Features:
- AC Input available in 115v/1ph/50/60Hz or 230v/1ph/50/60Hz
- Ability to control two pumps, each with independent batch programs
- Can save up to three programs per pump for maximum flexibility
- Program variables include number of pump cycles, repeat delay and batch count
- Two modes - batch and run (in run mode pump can be turned on/off via function key on control panel)
- Cycle count feature can be used for preventative maintenance. Continues to totalize until reset or reaches 1 million cycles.
- Two versions - AC in/AC out and AC in/24v DC out
- PLC control
- NEMA 4X/IP65 enclosure
- Solid state relays on DC output versions for maximum reliability with DC solenoids
- CE marked
- 12 ft./3.5m prewired power cord with plug (Type A for 115v/Type C for 230v)
- (2) 16 ft./4.9m prewired proximity sensor cables (optional cable extensions available to extend length to a maximum of 250 ft./76m)
- (2) 16 ft./4.9m plug in solenoid control cables with DIN connector for the solenoid (optional cable extensions available to extend length to >1,000 ft./305m for AC solenoids or a maximum of 200 ft./61m for DC solenoids)
- Optional solenoid valves for air control in 115v, 230v, or 24v with plug and play DIN connector

Specifications:
- Not suitable for use in hazardous locations
- Operating Environment Temp Limit: 32°-122°F (0°-50°C)
- Operating Environment Humidity Limit: 85% RH Max Non-Condensing
- Unit Weight (including standard length power, sensor and solenoid cables): AC In/AC Out: 6.5 lbs (3.0 kg), AC In/DC Out: 7 lbs (3.2 kg)
- Enclosure Dimensions: AC In/AC Out: 7" x 7" x 5" (17.8cm x 17.8 cm x 12.7 cm), AC In/DC Out: 11" x 7.5" x 5" (28cm x 19 cm x 12.7 cm)
- Enclosure Material: AC In/AC Out: Polycarbonate, AC In/DC Out: Polyester/fiberglass
- Enclosure Rating: NEMA 4X, IP65

Note: Requires pump equipped with proximity sensor in the air valve cap. When ordering a pump model, select letter "B" for metallic or "Q" for non-metallic air valves. This will be a pump fitted with the required air valve components to use with the batch controller, then order the appropriate batch controller. Complete sensor mounted air valves are available and can be retrofitted on existing pumps to allow use with the batch controller.



AC In/AC Out Batch Controller

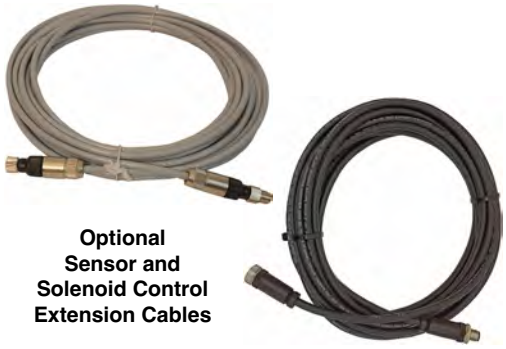


Supplied 16 ft. (4.9 m) Plug-In Solenoid Control Cables

Optional Solenoid Kits Available
Contact Sales at 800-849-3030

Finish Thompson Air Batch Controllers and Cable Extensions

Description	Part #	Price $
Batch Controller, AC In/AC Out Type A Plug (115v, 1 ph, 50/60 Hz)	109852	950.00
Batch Controller, AC In/AC Out Type C Plug (230v, 1 ph, 50/60 Hz)	109852-1	950.00
Batch Controller, AC In/DC Out Type C Plug (230v/1 ph/50-60Hz; 24V DC output)	109852-2	1025.00
Batch Controller, AC In/DC Out Type A Plug (115v/1 ph/50-60Hz; 24V DC output)	109852-3	1025.00
Cable, proximity sensor extension 25 ft.	109850	73.00
Cable, proximity sensor extension 50 ft.	109850-1	85.00
Cable, proximity sensor extension 100 ft.	109850-2	112.00
Cable, solenoid extension 25 ft.	109851	109.00
Cable, solenoid extension 50 ft.	109851-1	161.00
Cable, solenoid extension 100 ft.	109851-2	267.00



Optional Sensor and Solenoid Control Extension Cables

ALSCO™ Diaphragm Pump Accessories

Finish Thompson Air Cycle Counter

The FTI Air Cycle Counter is an electronic device that counts pump cycles by detecting the presence of the valve carrier.

The carrier is detected by a sensor that can be factory mounted in all FTI Air air valve end caps. For metallic air valves it senses the presence of the aluminum valve carrier. For non-metallic air valves it senses the presence of a metallic pin installed in the end of the plastic valve carrier.

The counter senses the presence of the carrier and counts one cycle when the carrier moves away from the sensor and to the original end of the air valve. It continues counting for 100 million cycles. At 100 million cycles the counter automatically resets. The counter has the ability to be reset via the gray button below the display on the front of the enclosure or remotely. The panel reset can be disabled to prevent accidental reset.

When ordering pump model select letter “B” for metallic or “Q” for non-metallic Air Valve Material. This will be a pump fitted with the required air valve components to use with the counter. Then order the counter separately.

The sensor cable comes in a standard 16ft length with optional 25, 50, and 100 ft extensions. Maximum length is 250 ft. The counter can be universally used on any existing FTI Air pump with the proper air valve components.

Extension Cables Available Contact Sales at 800-849-3030



Air Cycle Counter



Finish Thompson Air Cycle Counter

Specifications:
- Not suitable for use in hazardous locations
- Operating Environment Temp Limit: 32°-122°F (0°-50°C)
- Operating Environment Humidity Limit: 85% RH Max Non-Condensing
- Unit Weight: 0.9 lbs (0.4 kg)
- Enclosure Dimensions: 3-1/2” W x 4” T x 2-1/8” D
- Enclosure Material: Polycarbonate
- Enclosure Rating: NEMA 4X, IP65
- Voltage: 110 or 230V, 1-phase, 50/60 Hz

Description	Part #	Price $
Cycle Counter with IEC Type A Plug (115v, 1 Ph, 50/60 Hz)	109805	363.00
Cycle Counter with IEC Type C Plug (230v, 1 Ph, 50/60Hz)	109805-1	367.00

Finish Thompson Liquid Level Control

The FTI Air Liquid Level Control is a pneumatic/mechanical device that will automatically turn a pump on and off as the liquid level changes.

Specifications:
- Completely pneumatic/mechanical operation.
- Automatic operation after initial set up.
- Float level controls on/off of air supply to pump.
- Easy set up for either high level on/low level off or low level on/high level off.
- Out of the box capable to control liquid level operating range from a couple inches to 6 feet. Additional guide rods available to extend range to 10 feet.
- Air flow through valve up to 125 CFM.
- Max inlet air pressure 120 PSI (8.3 BAR). Observe pump limits if unregulated air goes from level control to pump.
- Recommended minimum 20 PSI (1.4 BAR) inlet air to unit.
- Device air outlet must connect to pump or device that creates at least 5 PSI (0.4 BAR) back pressure for unit to operate properly.
- All 304 stainless steel or polypropylene wetted parts.
- Mounts to standard 1-1/2” pipe.

Advantages:
- More reliable valve actuator - uses ball detent that moves over a wave shape versus a cone that moves into two drill points.
- Guide rod uses stainless steel rods with male/female threads. Eliminates connector collars allowing liquid level travel to be from a couple inches to 6 feet (5 cm to 183 cm) versus competitor’s liquid level travel limited to 3 feet (91 cm).
- Pipe and mounting bracket are stainless steel versus plated steel.

Operation:
- A stainless steel or polypropylene float ball is connected to a guide rod. The guide rod passes through a hole in the control valve’s level arm.
- The guide rod has two shaft collars to be set at desired locations for on/off levels. One is set above the level arm and the other below.
- When the float ball rises or fall’s the shaft collar switches the position of the control valve which turns the air supply to the pump on or off.



Finish Thompson Liquid Level Control

Description	Part #	Price $
Liquid Level Control, Polypropylene Float	109832	650.00
Liquid Level Control, Stainless Steel Float, Groundable, ATEX	109832-1	695.00

ALSCO™ Diaphragm Pump Accessories

Finish Thompson Model FT05 Drum Pump Kit

The FT05 drum pump kit is ideal for transferring a wide variety of materials from drums.

Features:
- Converts 1/2"/13mm FTI Air double diaphragm pumps to an easy-to-use drum pump.
- Easy to install
- Manufactured from corrosion resistant materials
- Unique self-adjusting intake tube automatically adjusts to sit on bottom of drum ensuring maximum transfer of fluid
- Universal NPT/BSP/Buttress bung adapter (plastic pumps) or NPT/BSP bung adapter (metal pumps) welded to mounting plate
- Stainless steel hardware

Specifications:
- Suction and Discharge Size: 1/2" x 1/2"
- Standard Discharge Location: End, Optional NPT or BSP threaded center port location in vertical position
- Connection Types: NPT, BSP
- Air Inlet and Air Exhaust Size: 1/4" FNPT x 1/2" FNPT

Capabilities:
- Maximum Flow Rate: 20 gpm (77 lpm)
- Maximum Air Supply Pressure: 120 psi (8.3 bar)
- Displacement Per Stroke: 0.02 gal (0.08 lit)
- Minimum Air Inlet Pressure: 10 psig (0.7 bar)
- Maximum Particle Size : 0.19 in (4.7 mm)
- Sound Pressure: 72.1 dB(A)
- Operating Temperature: Determined by elastomers

Retrofit kits include all items in the basic kit plus a properly ported and plugged suction manifold. Aluminum kit has aluminum suction manifold but stainless steel mounting plate, bung adapter and intake tube. Contact sales department to order pump and drum pump kit as a unit. 800-849-3030





CE

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Finish Thompson Model FT05 Drum Pump Kits

Description	Part #	Price $
1/2" Basic PP Drum Pump Kit	109748-3	176.00
1/2" Basic PVDF Drum Pump Kit	109748-4	513.00
1/2" Basic Stainless Steel Drum Pump Kit	109748-5	508.00
1/2" Retrofit PP Drum Pump Kit	109749-3	358.00
1/2" Retrofit PVDF Drum Pump Kit	109749-4	809.00
1/2" Retrofit Stainless Steel Drum Pump Kit	109749-5	874.00
1/2" Retrofit Aluminum Drum Pump Kit	109749-6	720.00

6

SMC Filter / Regulator



Compact, integrated design saves space and reduces piping, includes dual scale psi/Bar gage. Filters incoming air to five microns. Regulator adjusts air pressure from 7.3 to 123 psig (.5 to 8.5 Bar).

SMC Filter / Regulator

Description	Part #	Price $
1/8" FNPT for 1/4" (6mm) pumps	109818	46.00
1/4" FNPT for 1/2" (13mm) pumps	109641	49.00
1/2" FNPT for 1" (25mm) & 1.5" Z pumps	109642	88.00
3/4" FNPT for 2" & 3" (51, 76mm) pumps	109643	115.00

Blacoh Spilltop



Compact, integrated design saves space and reduces piping, includes dual scale psi/Bar gage. Filters incoming air to five microns. Regulator adjusts air pressure from 7.3 to 123 psig (.5 to 8.5 Bar).

For Pricing and Ordering
Contact Sales at 800-849-3030

Finish Thompson Diaphragm Pump Accessories



Finish Thompson offers additional cables, mufflers, rebuild kits, flange kits, solenoids, valve caps, spare parts and more.
Contact Sales at 800-849-3030 for Information







ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 091218

ALSCO™ Diaphragm Pump Accessories

Blacoh Pulsation Dampeners



AODDampener

AODDampener is unique pulsation dampener manufactured from 316L stainless steel with PTFE backed diaphragm, has fully automatic air control and handles a wide variety of applications.



Pulsation Dampeners

Removes virtually all hydraulic shock while producing a near steady flow of fluid. Recommended to protect piping, valves and fittings from destructive pulsations and surges. Available in a wide range of materials of construction.

Blacoh AODDampener

Description	Connection	Part #	Price $
1/2" (13mm) and 1" (25MM)	1" FNPT	FAOD-10-NPT	965.00
1/2" (13mm) and 1" (25mm) ATEX	1" FNPT	FAOD-10-NPT-AT	1210.00
1.5" (38MM)	1.5" FNPT	FAOD-15-NPT	1233.00
2" (51MM)	2" FNPT	FAOD-20-NPT	1233.00
2" (51MM) ATEX	2" FNPT	FAOD-20-NPT-AT	1318.00

Blacoh Additional Pulsation Dampeners and Leak Control Products Available Contact Sales at 800-849-3030

Blacoh Pulsation Dampeners

Description	Connection	Part #	Price $
1/2" (13mm), PP/PP/Santoprene™	1/2" FNPT	FA1305WP	601.00
1" (25mm), PVC/PVC/Hypalon	1" FNPT	FA311HP-1	731.00
1.5" (38mm), PP/Noryl/Santoprene™	1.5" FNPT	FA905WP	924.00
2" (51 mm), PVC/Hypalon	2" FNPT	FA111HP	1011.00
1.5" (38 MM) PP/Noryl/Santoprene™	1.5" Flange	FA905WPF	1143.00
3" Aluminum, PTFE	150# Flange	FAA4000T	3656.00
3" Aluminum, Neoprene	150# Flange	FAA4000N	2274.00
3" Aluminum, Buna-N	150# Flange	FAA4000B	2285.00
3" Aluminum, EPDM	150# Flange	FAA4000ND	2287.00
3" Aluminum, FKM	150# Flange	FAA4000V	3036.00
3" Stainless Steel, Neoprene	150# Flange	FAA4020N	5924.00
3" Stainless Steel, Buna-N	150# Flange	FAA4020B	5948.00
3" Stainless Steel, EPDM	150# Flange	FAA4020ND	5953.00
3" Stainless Steel, FKM	150# Flange	FAA4020V	6657.00

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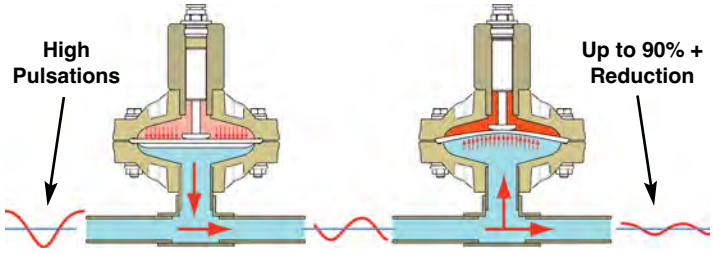
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ICON PulsePro Surge Suppressor Pulsation Dampeners



Features:

- All Plastic Design / GFPP / PVDF / PTFE
- Easy to Install / Plug and Play
- No Pre-Charging Required
- Lightweight
- Corrosion Resistant
- Long Lasting Heavy Duty Diaphragm Self-Adapting Technology
- Reduce Damaging Effects of Water Hammer
- Small Footprint
- In-Line Design
- Easy to Size
- Up to 90%+ Reduction in Pressure Spikes
- Suitable for Viscous Liquids
- Reduces Vibration / Protects Valves / Sensors
- Provides Constant Output required for Flow Meters and Pressure Gauges



PulsePro / GFPP

Size (in.)	Part #	Price $
3/4	PPS75WRHTN	699.00
1	PPS100WRHTN	849.00
1 1/2	PPS150WRHTN	1199.00
2	PPS200WRHTN	2699.00

PulsePro / CFPVDF

Size (in.)	Part #	Price $
3/4	PPS75FCHTN	999.00
1	PPS100FCHTN	1499.00
1 1/2	PPS150FCHTN	2135.00
2	PPS200FCHTN	4999.00

Electronic Metering Pumps

LMI



Note: Contact our sales office if you don't see the pump you need. We have many other selections not listed.

Chemical Metering Pumps

Features

- **Pressure Limited—** No mechanical linkage. When the back pressure exceeds the strength of the magnetic force developed by the power coil, the pump stops stroking. No damage will occur to the pump.
- **Constant Discharge Velocity / Better Valve Action—** Actual speed of each discharge stroke remains the same, no matter how low the stroke frequency is set. Sharp valve action is not sacrificed when pump speed is reduced.
- **Wide Rangeability —** Both stroke length and stroke frequency are adjustable and have a multiplying effect. A practical adjustability range of 200 to 1 is common.
- **Easy Adaptability To Automatic Control —** Standard A, B, and C Series pumps are equipped to respond to an external switch closure such as that delivered by the LMI Flowmeter-Pulser. They can also respond to standard analog instrument signals by means of the LMI Liquitron Converter. Versions are available to respond to a 4-20 milliamp DC instrument signal directly without intervening instrumentation.
- **Simplicity of Moving Unit —** Only one moving unit, the armature - diaphr. assembly. Requires no lubrication in service. No rotating masses such as motor or reduction gears.
- **Modular Construction —** Components and major assemblies easily replaced. No soldering required to replace any part of the LMI pump.
- **Totally Enclosed —** Corrosion proof glass fiber reinforced polypropylene housings keep pump protected from chemicals and atmosphere.
- **Low Consumption of Electrical Energy —** LMI pumps use power only during the discharge portion of each stroke thus causing minimum electrical consumption and low heat generation. No ventilation required.
- **Independent of Power Line Frequency —** LMI pumps can operate with any line frequency from 25 to 66 Hz without change in output or damage to the pump.

Roytronic A Series Pumps



Key Features / Benefits:

- Rigid stroke bracket assembly for highly accurate / consistent dosing performance
- Advanced control options for simplified system integration (pulse multiply / divide, 4-20mA, remote on / off)
- 5-level power control option to reduce system shock and extend the life of the pump
- External pacing for flow proportional applications

Maximum Output
Series A: 2.0 GPH (7.6 l/h)

Maximum Pressure
Series A: 250 psi (17.3 Bar)

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. or Seal Ring	Tubing & Connections	Electrical	Model #
8700	POA	Polypro	Ceramic	0.58 / 250	PTFE	PE .250" O.D.	120V AC	A141-915SI
-	-	-	-	-	-	-	-	-
8702	POA	PVDF	Ceramic	0.58 / 250	PVDF / Polyprel®	PE .250" O.D.	120V AC	A141-812SI

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. O-Rings	Tubing & Connections	Electrical	Model #
8705	POA	PVC	Ceramic	1.0 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	A751-828SI
8709	POA	PVC	Ceramic	1.0 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	A151-828SI
8711	POA	PVDF / PVDF	Ceramic	1.0 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	A751-822SI
8718	POA	PVC	Ceramic	1.0 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	A751-928SI
8703	POA	PVC	Ceramic	1.0 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	A151-928SI
8714	POA	PVC	Ceramic	1.0 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	A751-928SI
8715	POA	PVC	Ceramic	1.0 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	A151-928SI
8717	POA	PVC	Ceramic	1.0 / 110	PTFE	Pipe 1/4" NPT M	120V AC	A751-928SI
8720	POA	PVC	Ceramic	1.0 / 110	PTFE	Pipe 1/4" NPT M	120V AC	A151-928SI

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. or Seal Ring	Tubing & Connections	Electrical	Model #
8723	POA	PVC / PVC	Ceramic	2.0 / 50	PVDF / Polyprel®	PE .375" O.D.	120V AC	A161-938SI

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. or Seal Ring	Tubing & Connections	Electrical	Model #
8724	POA	PVC	Ceramic	0.42 / 140	PVDF / Polyprel®	PE .250" O.D.	120V AC	A751-828SI
8726	POA	PVDF / PVDF	Ceramic	0.42 / 140	PVDF / Polyprel®	PE .250" O.D.	120V AC	A751-822SI

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. or Seal Ring	Tubing & Connections	Electrical	Model #
8712	POA	PVC	Ceramic	0.75 / 80	PVDF / Polyprel®	PE .375" O.D.	120V AC	A151-928SI

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com

Electronic Metering Pumps



Key Features / Benefits for Series B and C Pumps:

- Rigid stroke bracket assembly for highly accurate / consistent dosing performance
- Advanced control options for simplified system integration (pulse multiply / divide, 4-20mA, remote on / off)
- 5-level power control option to reduce system shock and extend the life of the pump
- External pacing for flow proportional applications

Maximum Output
Series B: 7.0 GPH (26.5 l/h)

Maximum Pressure
Series B: 150 psi (10.3 Bar)

Chemical Metering Pumps

B Series Pumps

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. or Seal Ring	Tubing & Connections	Electrical	Model #
8743	POA	PVC	Ceramic	1.6 / 150	PVDF / Polyprel®	PE .375" O.D.	120V AC	B111-498SI
8751	POA	Polypro	Ceramic	1.6 / 150	PTFE	PE .375" O.D.	120V AC	B711-495SI
8745	POA	PVC	Ceramic	2.5 / 100	PVDF / Polyprel®	PE .375" O.D.	120V AC	B121-498SI
8746	POA	PVC	Ceramic	2.5 / 100	PVDF / Polyprel®	PE .375" O.D.	120 V AC	B721-498TI
8752	POA	PVC	Ceramic	4.5 / 50	PVDF / Polyprel®	PE .375" O.D.	120V AC	B731-468SI
8748	POA	PVC	Ceramic	4.5 / 50	PVDF / Polyprel®	PE .375" O.D.	120V AC	B131-468TI
8749	POA	PVC / PVDF	Ceramic	7.0 / 30	Polyprel®	PE .5" O.D.	120V AC	B141-12S
8766	POA	Polypro	Ceramic	7.0 / 30	PTFE	PE .5" O.D.	120V AC	B741-15S

C Series Pumps

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. or Seal Ring	Tubing & Connections	Electrical	Model #
8741	POA	PVC	Ceramic	2.5 / 150	PVDF / Polyprel®	PE .375" O.D.	120V AC	C111-468SI
8744	POA	PVC	Ceramic	4.0 / 100	PVDF / Polyprel®	PE .375" O.D.	120V AC	C121-468SI
8754	POA	PVC	Ceramic	8.0 / 60	PVDF / Polyprel®	PE .5" O.D.	120V AC	C731-318TI
8755	POA	Acrylic / PVC	Ceramic	8.0 / 60	Hypalon®	PE .5" O.D.	120V AC	C131-20
8756	POA	PVC	Ceramic	8.0 / 60	PTFE	Pipe 1/2" NPT M	120V AC	C131-24
8747	POA	Polypro	Ceramic	8.0 / 60	PTFE	PE .5" O.D.	120V AC	C131-25T
8757	POA	PVC	Ceramic	8.0 / 60	Fpm®	PE .5" O.D.	120V AC	C731-26
8753	POA	PVC	Ceramic	20 / 25	PTFE	Pipe 1/2" NPT M	120V AC	C741-34
8760	POA	PVC	Ceramic	20 / 25	PTFE	Pipe 1/2" NPT M	120V AC	C141-34
8758	POA	Polypro	Ceramic	20 / 25	PTFE	PE .5" O.D.	120V AC	C741-35T
8759	POA	PVC	Ceramic	20 / 25	PTFE	PE .5" O.D.	120V AC	C741-36
8750	POA	PVC	Ceramic	20 / 25	PTFE	PE .5" O.D.	120V AC	C141-36
8761	POA	PVC	Ceramic	10 / 80	Fpm®	PE .5" O.D.	120V AC	C771-26
8762	POA	Polypro	Ceramic	25 / 30	PTFE	Pipe 1/2" NPT M	120V AC	C781-35P
8763	POA	PVC	Ceramic	25 / 30	PTFE	PE .5" O.D.	120V AC	C781-36

P Series Pumps



Key Features / Benefits:

- High quality construction for durability
- Compact Size; ideal for OEM applications
- Fixed speed versions for simple, low cost applications

Maximum Output
Series P: 2.0 GPH (7.6 l/h)

Maximum Pressure
Series P: 250 psi (17.3 Bar)

Part #	Price $	Head / Fittings	Balls	GPH / PSI	Cartridge Vlv. or Seal Ring	Tubing & Connections	Electrical	Model #
8767	POA	PVDF / PVDF	Ceramic	0.21 / 150	PVDF / Polyprel®	PE .250" O.D.	120V AC	P121-352TI
8768	POA	PVC	Ceramic	0.42 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	P131-398SI
8769	POA	PVC	Ceramic	0.42 / 110	PVDF / Polyprel®	PE .375" O.D.	120V AC	P131-398TI
8770	POA	PVC	Ceramic	0.58 / 250	PVDF / Polyprel®	PE .250" O.D.	120 V AC	P141-358TI

Chemical Metering Pumps

Plast-O-Matic® Self-Priming Pump - Series VPA



Plast-O-Matic's chemical metering pumps are explosion-proof and self priming. They are designed to deliver exact quantities of highly corrosive or ultra-pure liquids such as sulphuric acid, hydrochloric acid, chlorine, caustics, and demineralized water.

Utilization of Plast-O-Matic pumps in automating chemical handling systems can increase employee safety, eliminate waste and error, ensure a better end product, and reduce overall operating costs.

Features:

- Corrosion Resistant All Plastic Construction.
- Self-Priming.
- Repeat Accuracy - 0.5 percent.
- Long Cycle Life.
- Patented Fail-Dry Vented Safety Design.
- Standard Limit Stop allows virtually unlimited pumping volume adjustment.
- Optional proximity switches provide remote sensing & position verification.

PVC Dual Cylinder Filling & Metering Pumps – Without Cap Seals

Capacity (ounces)	Liquid Cylinder Wall Material	Elastomer Seal Material	ALSCO #	Price $
7	PVC	FKM	3131-V	1211.00
7	PVC	EPDM	3131-E	1174.00
7	Stainless	FKM	S3131-V	1521.00
7	Stainless	EPDM	S3131-E	1485.00
10	PVC	FKM	3132-V	1455.00
10	PVC	EPDM	3132-E	1417.00
10	Stainless	FKM	S3132-V	1819.00
10	Stainless	EPDM	S3132-E	1783.00
32	PVC	FKM	3133-V	2428.00
32	PVC	EPDM	3133-E	2391.00
32	Stainless	FKM	S3133-V	2915.00
32	Stainless	EPDM	S3133-E	2878.00
128	PVC	FKM	3134-V	3772.00
128	PVC	EPDM	3134-E	3730.00
128	Stainless	FKM	S3134-V	4258.00
128	Stainless	EPDM	S3134-E	4198.00

Polypropylene and Kynar PVDF pump bodies also available on request.

Dual Cylinder Filling & Metering Pumps – With PTFE Cap Seals

Add to the above price as follows:
7-10 oz. size - $83.00 / 32 oz. size - $144.00 / 128 oz. size - $496.00

Capacity & Accuracy

Plast-O-Matic chemical metering pumps are available with maximum per cycle capabilities of 7 ounces, 10 ounces, 32 ounces and 128 ounces. A cycle is one up and down stroke of the piston assembly. They can be cycled up to 10 times per minute when pumping water or liquids of similar specific gravities and viscosities. The per cycle discharge capacity can be adjusted from its maximum to 20% of its maximum. For example: the 128 ounce pump can be adjusted to discharge anywhere between 25 and 128 ounces per stroke. While the pump discharge adjustment is simple, it is recommended that the discharge amount be physically measured. Once the measured amount is set and checked the accuracy of the discharge repeatability is approximately 1/2 of 1%.

Installation

Plast-O-Matic chemical metering pumps should always be installed vertically (see Cycle Life section) with the pump inlet never more than 20 feet above the end of the suction line. Mounting brackets are supplied with all pumps. To eliminate siphoning through the pump, the end of the discharge line should always be higher than the liquid source. To obtain the longest cycle life, it is imperative that the operating air supply line be lubricated and filtered to eliminate foreign matter from entering and scoring the cylinder walls. As with all Plast-O-Matic products, these pumps, when properly installed and calibrated should offer you the maximum in dependable operation. In this regard, special attention should be made to adhere to the installation and maintenance instructions shipped with each Plast-O-Matic chemical metering pump.

Fail Dry® Design

Plast-O-Matic chemical metering pumps feature a patented Fail-Dry® design concept of having a vented chamber separating two sealed sections of a valve or, as in this case, a pump. In the event of a liquid piston seal failure, the vented chamber and U-cup seals will cause the by-passing liquid to exit at the vent port. With the vent piped to a remote location, the pump will remain functioning even after a primary seal failure, thereby keeping the process or system operating until a maintenance can be scheduled avoiding costly emergency shutdown.

Materials of Construction

Pump bodies, shaft and piston assemblies, and cylinder walls are constructed of TYPE 1, GRADE1 PVC (Polyvinyl Chloride). Polypropylene, and Kynar PVDF also available on request. Optional stainless steel cylinder walls are available. for chemicals compatible with 304 stainless steel. A choice of two standard elastomer seals is offered – EPDM and FKM (fluorocarbon rubber). Optional PTFE cap seals are offered for applications where severe seal rubbing occurs. Pump tie rods and their fasteners, adjusting bolts, locking nuts, as well as inlet and outlet check fasteners, are 303 stainless steel. Mounting brackets are zinc plated steel.

Cycle Life

Tests conducted in our laboratory pumping tap water indicate the life expectancy of pumps with PVC cylinder walls to be between 100,000 and 300,000 cycles. With stainless steel cylinder walls life expectancy is over 1,000,000 cycles. To ensure the best cycle figures pumps must always be mounted vertically. When gritty liquids are being pumped it is recommended that the pumps be mounted with the liquid side down to allow sediment to settle without scoring the cylinder walls. The optional PTFE cap seals do not increase cycle life with PVC cylinders unless there is an unusual rubbing problem with the O-rings. There is a cycle life improvement with the PTFE cap seals in stainless cylinders.

Plast-O-Matic® Proximity Sensor - Series RS



ALSCO #	Price $
Add **-RS** to VPA # above	690.00

AC or DC Reed switch with indicator lights designed for use with VPA metering pump. CSA listed and NEMA-6 wash down compatible.

Proximity sensors are available to verify position on all metering pump sizes. These can be used to power a relay, signal a computer, or other process control. Switches are ideal to certify that the pump has discharged or retracted, or both.

Within the pump, a magnetic band is added to the piston head on the air side (non-wetted) and is a factory-installed item. The external sensors can be installed and positioned in the field.

Standard style reed switch, 5-240 VAC or DC, features Indicator Lights, NEMA 6 wash down compatible, normally-open, MOV surge suppression, thermoplastic (Ultem) housing, PVC wire and stainless steel fasteners. Universal clamp attaches to tie rods on pump cylinders. Proximity Switches are CSA listed for use with certified electrical equipment.

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Solenoid Metering Pumps

Z Series Solenoid Metering Pump



Analog



Digital

The New Z Series Solenoid Diaphragm Metering Pumps brings simplicity to your metering pump needs in all aspects of design, function and performance. The Z Series features only one design configuration, featuring front facing controls and tube connections, allowing for easy and flexible installation. No more reaching over in tight spaces for hookups and connections. Available in analog and digital versions, the Z Series offers just three sizes with flow rates ranging from 1 gph to 29 gph. Additionally, the Z Series offers a stroke rate of 160 to 300 strokes/minute. No need to have multiple makes or models to cover all your application needs.

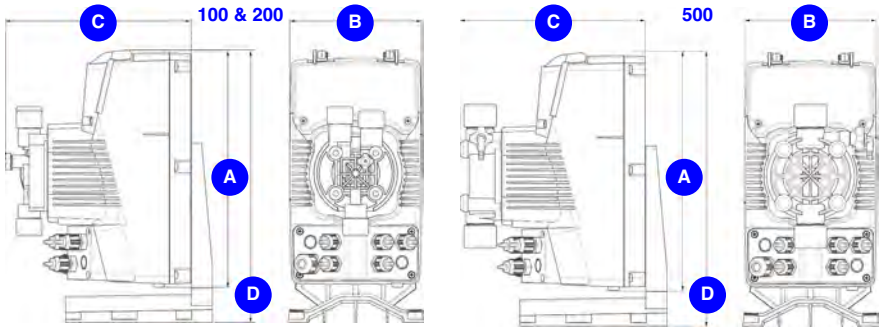
Features:
- Analog and Digital Operation
- Three Pump Sizes Cover 1 To 29 gph With an Output Pressure Up To 232 psi
- Standard One Piece Molded PVDF Pump Head
- PTFE Diaphragm Provides Superior Chemical Handling
- Degassing Valve Included
- Glass Reinforced Polypropylene Housing
- FPM Body O-Ring Seal
- Removable Bracket Allows For Panel Mounting, As Well As Replacement of Existing Metering Pumps
- Inputs: 4-20mA, Pulse, etc.
- Manual Priming Valve
- NEMA 4X / IP 65 Rated
- Electrical Connections Are Configured With “Quick-Connectors”, Capped When Not In Use
- Automatic Power Supply - 100-240 VAC 50-60 Hz

Materials:
- GFPP Cell Class 85580 Per ASTM D4101
- PVDF Per ASTM D3222 II
- PTFE Diaphragm
- FPM or EPDM Seals

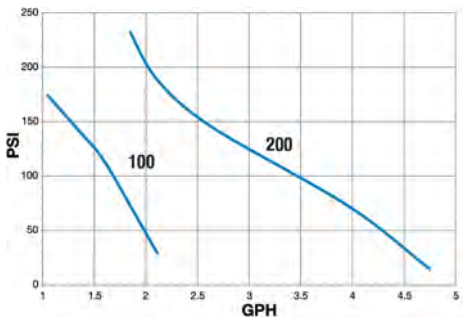
POA: Price On Application
Analog Interface: Available in ZMA - Constant Dosage, ZPA - Proportional Dosage and ZTA - Timed Dosage models with FPM or EPDM Seals.
Digital Interface: Available in ZPD - Constant Dosage, ZRD - PH/Redox Control and ZKD - Constant Flow and Timer models with FPM or EPDM Seals.
Contact Sales Office for more details and pricing at 1-800-849-3030.

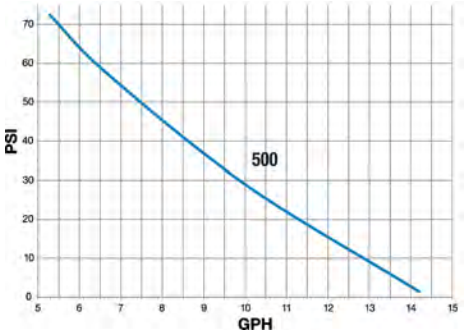
Dimensions

Model	A	B	C	D
100 & 200	9.1”	4.7”	5.7”	10”
500	9.1”	4.7”	5.9”	10”



Performance Curves





Z Series Solenoid Metering Pump

Pump Size	Flow Rate (GPH)	Line Pressure (PSI)	Stroke Capacity (CC / Stroke)	0 Connections In/Out (ins)	Frequency Max (Stroke / Min)	Consumption (W)
100	1.06	175	0.42	0.17” x 1/4”	160	12.2
	1.32	145	0.52			
	1.58	116	0.63			
	2.11	29	0.83			
200	1.85	232	0.38	0.17” x 1/4”	300	23.9
	2.64	145	0.55			
	3.96	72	0.83			
	4.75	14	1.00			
500	5.28	72	1.11	5/16” x 7/16”	300	22.2
	6.60	58	1.39			
	10.03	29	2.22			
	14.27	14	3.00			

Banjo Polypropylene Pumps

1 1/2” and 2” Banjo Polypropylene Pumps



Pump Features:
- Precision molded construction.
- Lightweight.
- Corrosion resistant.
- Superior design.
- Low maintenance.
- EPDM Standard, FKM available.

Wet Seal Pump Features:
- New Compact Design!
- Run Dry Capability!
- Double seal contained in ethylene glycol reservoir. Carbon Ceramic seal faces with stainless steel cup and spring with EPDM rubber.
- Pump end separated from engine.
- Large weep holes between pump end and engine.
- “V” shaped for quicker priming.

Available:
- Poly Bearing Pedestals
- Replacement Parts and Kits
- 2" Pump Roll Cage Accessory
- 2" Polypropylene Hydraulic Pumps
- 3" Polypropylene Pumps
- 3" Polypropylene Pumps with Gas Engines
- 3" Polypropylene Pumps with Hydraulic Motors
- 3" Polypropylene Manifold Wet Seal Pumps with Gas Engines







CAUTION-WARNING: Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

DO NOT USE WITH FLAMMABLE LIQUIDS.

NOTE: Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

Description	HP	Mfg Part #	Price $
1 1/2” and 2” Polypropylene Pumps			
1 1/2"" Poly Pump with 3 Vane Impeller	N/A	150PO	229.00
2" Poly Pump with 3 Vane Impeller	N/A	200PO	229.00
2" Poly Pump with 3 Vane Impeller with FKM and 316 SS Seal	N/A	200PO-V	430.55
2" Poly Pump with 5 Vane Impeller	N/A	205PO	229.00
2" Poly Pump with 5 Vane Impeller with FKM and 316 SS Seal	N/A	205PO-V	430.55
2" Poly Pump with 56C Face Adapter	N/A	200PEO	232.02
2" Poly Manifold Pump with 3/4" Shaft and 4 Vane Impeller	N/A	M220PO	263.57
2” Polypropylene Pumps with Electric Motors			
2" Poly Pump with 5.0 HP Three Phase Electric Motor with EPDM Elastomers	5.0	234PPE5	1614.55
2" Poly Pump with 5.0 HP Three Phase Electric Motor with FKM Elastomers	5.0	234PPE5V	1845.20
2" Poly Pump with 5.0 HP Single Phase Electric Motor with EPDM Elastomers	5.0	234PPE51	1784.97
2" Poly Pump with 5.0 HP Single Phase Electric Motor with FKM Elastomers	5.0	234PPE51V	2039.97
2” Polypropylene Pumps with Gas Engines			
2" Poly Pump with 5.5 HP Honda® Engine	5.5	200PH-5	1180.77
2" Poly Pump with 5.5 HP Honda® Engine with Electric Start	5.5	200PH-5E	1520.69
2" Poly Pump with 5.5 HP Honda® Engine with FKM and 316 SS Seal	5.5	200PH-5V	1384.92
2" Poly Pump with 6.5 HP Honda® Engine	6.5	200PH6	1385.32
2" Poly Pump with 6.5 HP Briggs & Stratton® Engine Pro Series	6.5	200P6PRO	639.63
2" Poly Pump with 6.5 HP Briggs & Stratton® Engine Pro Series with Electric Start	6.5	200P6PROE	733.46
2" Poly Pump with 6.5 HP Briggs & Stratton® Engine Pro Series with FKM and 316 SS Seal	6.5	200P6PROV	834.66
2” Polypropylene Wet Seal Pumps with Gas Engines			
2" Poly Wet Seal Pump with 5.5 HP Honda® Engine	5.5	200PH5W	1371.98
2" Poly Wet Seal Pump with 6.5 HP Briggs & Stratton® Engine Pro Series	6.5	200P6PROW	822.50
2" Polypropylene Manifold Pumps with Gas Engines			
2" Poly Manifold Pump with 5.5 HP Honda® Engine	5.5	M220PH5	1215.79
2" Poly Manifold Pump with 5.5 HP Honda® Engine with Electric Start	5.5	M220PH5E	1525.20
2" FP Manifold Pump with 6.5 HP Honda® Engine	6.5	M220PH6	1642.97
2" FP Manifold Pump with 6.5 HP Briggs & Stratton® Pro Series Engine	6.5	M220P6PRO	711.82
2" FP Manifold Pump with 6.5 HP Briggs & Stratton® Pro Series Engine with Electric Start	6.5	M220P6PROE	748.80
2" Polypropylene Manifold Wet Seal Pumps with Gas Engines			
2" Poly Manifold Wet Seal Pump with 5.5 HP Honda® Engine	5.5	M220PH5W	1364.78
2" Poly Manifold Wet Seal Pump with 5.5 HP Honda® Engine with Electric Start	5.5	M220PH5EW	1860.92
2" Poly Manifold Wet Seal Pump with 6.5 HP Honda® Engine	6.5	M220PH6W	2044.82
2" Poly Manifold Wet Seal Pump with 6.5 HP Briggs & Stratton® Engine Pro Series	6.5	M220P6PROW	826.09
2" Poly Manifold Wet Seal Pump with 6.5 HP Briggs & Stratton® Engine Pro Series with Electric Start	6.5	M220P6PROEW	999.05

ALSCO™ Banjo Cast Iron and SS Pumps

1 1/2” and 2” Banjo Cast Iron Pumps and 2” 316 Stainless Steel Pumps



Cast Iron Pump Features:
- Cast iron construction for rugged dependable service.
- Stainless steel shaft sleeve to protect engine shaft.
- Carbon ceramic seal with stainless steel cup and spring with FKM rubber.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

Cast Iron Wet Seal Pump Features:
- Run Dry Capability!
- FKM double seal contained in ethylene glycol reservoir.
- Dynamically balanced impeller.
- All stainless steel hardware.



316 Stainless Steel Pump Features:
- Carbon ceramic seal consists of 316 stainless steel cup and spring with FKM Elastomer.
- All 316 stainless steel wettable internal components: Impeller, Sleeve, Wear plate, Fasteners
- 316 stainless steel housing.
- Replaceable inlet and outlet flanges.
- Dynamically balanced impeller.

Available:
- Cast Iron and Stainless Steel Bearing Pedestals
- Replacement Parts and Kits
- Polyethylene Suction Basket Strainers
- 2", 2" 222 Series and 2" M222 Series Cast Iron Pump Configurations
- 3", 3" 333 Series and 3" M332 Series Cast Iron Pump Configurations
- 4" 444 Series Cast Iron Pump Configurations
- 2" 316 Stainless Steel Pump Configurations
- 3” 316 Stainless Steel Pump Configurations









Description	HP	Mfg Part #	Price $
1 1/2" Cast Iron Pumps			
1 1/2" Cast Iron Pump with 3/4" Shaft Sleeve	N/A	150POI	489.19
1 1/2" Cast Iron C-Flange Pump with 5/8" Shaft Sleeve and 4.1 Impeller	N/A	150POICF5/8-4.1	542.23
1 1/2" Cast Iron C-Flange Pump with 7/8" Shaft Sleeve	N/A	150POICF7/8	542.23
1 1/2" Cast Iron C-Flange Pump with 7/8" Shaft Sleeve and 4.1 Impeller	N/A	150POICF7/8-4.1	511.54
1 1/2" Cast Iron C-Flange Pump with 7/8" Shaft Sleeve and 4.6 Impeller	N/A	150POICF7/8-4.6	511.54
2" Cast Iron Pumps			
2" Cast Iron Pump with 3/4" Shaft Sleeve	N/A	200POI	489.19
2" Cast Iron C-Flange Pump with 5/8" Shaft Sleeve	N/A	200POICF5/8	542.23
2" Cast Iron C-Flange Pump with 7/8" Shaft Sleeve	N/A	200POICF7/8	542.23
2" Cast Iron C-Flange Pump with 7/8" Shaft Sleeve and 4.6 Impeller	N/A	200POICF7/8-4.6	542.23
2" Cast Iron Pump with 184TC Frame Adapter	N/A	234POI	890.36
2" Cast Iron Wet Seal Pump	N/A	201POIW	884.09
2" Cast Iron Pumps with Electric Motors			
2" Cast Iron Pump with 3.0 HP Three Phase Electric Motor	3.0	234PIE3	1888.69
2" Cast Iron Pump with 5.0 HP Three Phase Electric Motor	5.0	234PIE5	1851.21
2" Cast Iron Pump with 5.0 HP Single Phase Electric Motor	5.0	234PIE51	2358.63
2" Cast Iron Pumps with Gas Engines			
2" Cast Iron Pump with 3.5 HP Briggs & Stratton® Engine	3.5	200PI-3	844.78
2" Cast Iron Pump with 6.5 HP Briggs & Stratton® Engine Pro Series	6.5	200PI6PRO	902.17
2" Cast Iron Pump with 5.5 HP Honda® Engine	5.5	200PIH-5	1539.74
2" Cast Iron Pump with 5.5 HP Honda® Engine with Electric Start	5.5	200PIH5E	2103.21
2" Cast Iron Wet Seal Pumps with Gas Engines			
2" Cast Iron Wet Seal Pump with 5.5 HP Honda® Engine	5.5	201PIH5W	1794.35
2" Cast Iron Wet Seal Pump with 6.5 HP Briggs & Stratton® Engine Pro Series	6.5	201PI6PROW	1447.11
2" 316 Stainless Steel Pumps			
2" SS Pump with 3/4" Shaft Sleeve	N/A	200PO-SS	2267.98
2" SS C-Flange Pump with 5/8" Shaft Sleeve	N/A	200POSSCF5/8	2956.99
2" SS C-Flange Pump with 7/8" Shaft Sleeve	N/A	200POSSCF7/8	2956.99
2" 316 Stainless Steel Pumps with Electric Motors			
2" SS Pump with 3.0 HP Three Phase Electric Motor	3.0	234PE3SS	5165.58
2" SS Pump with 5.0 HP Three Phase Electric Motor	5.0	234PE5SS	5552.27
2" SS Pump with 5.0 HP Single Phase Electric Motor	5.0	234PE51SS	6257.98
2" 316 Stainless Steel Pumps with Gas Engines			
2" SS Pump with 5.5 HP Honda® Engine with Pull Rope Only	5.5	200PH5-SS	4380.74
2" SS Pump with 6.5 HP Briggs & Stratton® Engine Pro Series with Pull Rope Only	6.5	200P6PROSS	3316.86

CAUTION-WARNING: Please do not run pump dry, restrict or reduce port sizes, or dead head pump. This could cause component failure to pump.

DO NOT USE WITH FLAMMABLE LIQUIDS.

NOTE: Engine warranty service available at authorized Briggs & Stratton and Honda dealers.

Mixers

General Purpose High Speed (1725 RPM) Electric Mixers



High Speed Mixers are well suited for applications with relatively low viscous liquids (1-500 cps) and tank sizes ranging from 30 to 500 gallons. With a variety of mountings, motor types, voltages and mixing elements, there is a suitable Wingert Mixer for every job.

Features

- 1725 RPM
- Continuous duty
- Bracket, clamp, flange, thread or tank stand mount
- TEFC, open, variable speed, explosion proof or air powered motors
- Available with stainless steel impellers/propellers or neoprene impellers
- Factory wiring, topical coating, variable shaft lengths & other options available

Part #	Description Open,115V Motor Type	Mount Type	Shaft Dia. x Len.	Price $
5600-34BI	1/4HP,Open,115V,SS Impeller Elec. Mixer	Bracket	1/2" x 34"	563.00
5600-34BP	1/4HP,Open,115V,SS Propeller Elec. Mixer	Bracket	1/2" x 34"	645.00
5600-34CI	1/4HP,Open,115V,SS Impeller Elec. Mixer	Clamp	1/2" x 34"	659.00
5600-34CP	1/4HP,Open,115V,SS Propeller Elec. Mixer	Clamp	1/2" x 34"	737.00
5600-36CP	1/4HP,Open,115V,SS Impeller Elec. Mixer	Clamp	1/2" x 36"	772.00
5601-36BI	1/3HP,Open,115V,SS Impeller Elec. Mixer	Bracket	1/2" x 36"	598.00
5601-36BP	1/3HP,Open,115V,SS Propeller Elec. Mixer	Bracket	1/2" x 36"	676.00
5601-36CI	1/3HP,Open,115V,SS Impeller Elec. Mixer	Clamp	1/2" x 36"	689.00
5601-36CP	1/3HP,Open,115V,SS Propeller Elec. Mixer	Clamp	1/2" x 36"	772.00
5601-36FI	1/3HP,Open,115V,SS Impeller Elec. Mixer	Flange	1/2" x 36"	994.00
5601-36FP	1/3HP,Open,115V,SS Propeller Elec. Mixer	Flange	1/2" x 36"	980.00
5602-36BI	1/2HP,Open,115V,SS Impeller Elec. Mixer	Bracket	1/2" x 36"	745.00
5602-36BP	1/2HP,Open,115V,SS Propeller Elec. Mixer	Bracket	1/2" x 36"	886.00
5602-36CI	1/2HP,Open,115V,SS Impeller Elec. Mixer	Clamp	1/2" x 36"	827.00
5602-36CP	1/2HP,Open,115V,SS Propeller Elec. Mixer	Clamp	1/2" x 36"	965.00



Impeller



Propeller

Part #	Description TEFC,115V,1PHS,60Hz Motor Type	Mount Type	Shaft Dia. x Len.	Price $
5604-28FI	1/20HP,TEFC,115V,SS Impeller Elec. Mixer	Flange	5/16" x 28"	289.00
5604-28FP	1/20HP,TEFC,115V,SS Propeller Elec. Mixer	Flange	5/16" x 28"	394.00
5604-36FI	1/20HP,TEFC,115V,SS Impeller Elec. Mixer	Flange	5/16" x 36"	324.00
5605-34BI	1/4HP,TEFC,115V,SS Impeller Elec. Mixer	Bracket	1/2" x 34"	568.00
5605-34BP	1/4HP,TEFC,115V,SS Propeller Elec. Mixer	Bracket	1/2" x 34"	665.00
5605-34CI	1/4HP,TEFC,115V,SS Impeller Elec. Mixer	Clamp	1/2" x 34"	672.00
5605-34CP	1/4HP,TEFC,115V,SS Propeller Elec. Mixer	Clamp	1/2" x 34"	724.00
5606-36BI	1/3HP,TEFC,115V,SS Impeller Elec. Mixer	Bracket	1/2" x 36"	621.00
5606-36BP	1/3HP,TEFC,115V,SS Propeller Elec. Mixer	Bracket	1/2" x 36"	698.00
5606-36CI	1/3HP,TEFC,115V,SS Impeller Elec. Mixer	Clamp	1/2" x 36"	703.00
5606-36CP	1/3HP,TEFC,115V,SS Propeller Elec. Mixer	Clamp	1/2" x 36"	773.00
5606-36FI	1/3HP,TEFC,115V,SS Impeller Elec. Mixer	Flange	1/2" x 36"	792.00
5606-36FP	1/3HP,TEFC,115V,SS Propeller Elec. Mixer	Flange	1/2" x 36"	866.00
5607-36BI	1/2HP,TEFC,115V,SS Impeller Elec. Mixer	Bracket	1/2" x 36"	655.00
5607-36BP	1/2HP,TEFC,115V,SS Propeller Elec. Mixer	Bracket	1/2" x 36"	821.00
5607-36CI	1/2HP,TEFC,115V,SS Impeller Elec. Mixer	Clamp	1/2" x 36"	742.00
5607-36CP	1/2HP,TEFC,115V,SS Propeller Elec. Mixer	Clamp	1/2" x 36"	894.00
5608-44BI	1HP,TEFC,115V,SS Impeller Elec. Mixer	Bracket	5/8" x 44"	1193.00
5608-44BP	1HP,TEFC,115V,SS Propeller Elec. Mixer	Bracket	5/8" x 44"	1489.00
5608-44CI	1HP,TEFC,115V,SS Impeller Elec. Mixer	Clamp	5/8" x 44"	1267.00
5608-44CP	1HP,TEFC,115V,SS Propeller Elec. Mixer	Clamp	5/8" x 44"	1571.00

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Mixers

General Purpose High Speed (1725 RPM) Electric Mixers



Part #	Description Explosion Proof Motor Type	Mount Type	Shaft Dia. x Len.	Price $
5609-34CI	1/4HP,Expl proof,SS Impeller Elec. Mixer	Clamp	1/2" x 34"	1318.00
5609-34CP	1/4HP,Expl proof,SS Propeller Elec. Mixer	Clamp	1/2" x 34"	1427.00
5610-36CI	1/3HP,Expl proof,SS Impeller Elec. Mixer	Clamp	1/2" x 36"	1317.00
5610-36CP	1/3HP,Expl proof,SS Propeller Elec. Mixer	Clamp	1/2" x 36"	1379.00
5611-36CI	1/2HP,Expl proof,SS Impeller Elec. Mixer	Clamp	1/2" x 36"	1441.00
5611-36CP	1/2HP,Expl proof,SS Propeller Elec. Mixer	Clamp	1/2" x 36"	1589.00

Accessories

Shaft Assemblies

Shaft Size O.D.	Impeller / Propeller SS 304	Mixer Type HP Size 1/20	1/4	1/3	1/2	1	Description	Part #	Price $
5/16"	Impeller	■					5/16" x36" w/1 Impeller	5500	$ 76.00
	Propeller	■					5/16" x36" w/1 Propeller	5501	248.00
1/2"	Impeller		■				1/2" x36" w/1 Impeller	5502	83.00
				■			1/2" x36" w/2 Impellers	5503	105.00
					■		1/2" x36" w/3 Impellers	5504	133.00
	Propeller		■	■			1/2" x36" w/1 Propeller	5505	182.00
					■		1/2" x36" w/2 Propellers	5506	311.00
5/8"	Impeller			●			5/8" x48" w/2 Impellers	5508	154.00
	Propeller		●	●			5/8" x48" w/1 Propeller	5511	227.00
					●		5/8" x48" w/2 Propellers	5512	341.00
						■	5/8" x 48" w/4 Propellers	5513	601.00

Shaft Only

Part #	Description	Price $ Drilled for SS Impeller
-	5/16" x 36" SS 304 (Max. / 36")	N/A
5514	1/2" x 36" SS 304 (Max. / 36")**	* (1 set) $ 49.00
5515	5/8" x 48" SS 304 (Max. / 48")	* (1 set) $ 96.00

* Drilled per set required, specify at time of ordering.
** Mixers with longer than 36" shaft will be increased to 5/8" dia.
■ Based on standard mixer or less than standard mixer length.
● Based on longer than standard mixer shaft lengths.

Optional Features

Description	Price $
316 SS shaft and IP / PRP in place of standard 304 SS	35.00
316 SS coupling in place of standard brass coupling	115.00
On / Off switch installed on TEFC series mixers only	42.00
Black epoxy coating on SS shaft & impellers / propellers	48.00
Longer than standard shaft (1/20 HP max. is 36". All others max. is 48".)	35.00



Impeller



Propeller

Application Suggestions: This chart is a general reference for mixer selection.

BASIC CONSISTENCY	SSU	CP	TANK SIZE 30	50	100	200	300	500	1000
Water, Kerosene, Blood	30	1	1/20 HP	1/20 HP	1/4 HP	1/3 HP	1/2 HP	1 HP	
10-20 WT Oil, Olive Oil	1000	100	1/20 HP	1/4 HP	1/3 HP	1/2 HP	1 HP		
Glycerin, 30 WT OIL	2000	300	1/4 HP	1/3 HP	1/2 HP	1 HP			
Latex Paint, Glucose	2800	500	1/3 HP	1/2 HP	1 HP				
Caster Oil, Catsup	5700	1000	1/2 HP	1 HP					

NOTE: For larger tanks or heavier mixing requirements contact our sales office.

CP (centipoise) - the poise is the cgs-metric system unit of viscosity and has the dimensions of dyne-seconds per square centimeter or grams per centimeter-second.

Mixers

General Purpose High Speed Air Mixers

Features

- Comes ready to install w/ step by step installation and operation instructions
- Explosion proof design
- Controlled torque
- Variable speed capability
- Light weight rotary vane air motor

Options

- Propellers / Impellers - Neoprene or SS
- 1" PVC Suction Tube Shield
- 316 SS Coupling in place of Brass
- Black Epoxy Coating
- Special Shaft Length (Max. 60")
- Custom mixers made to your specifications



Part #	Description Air Type	Mount Type	Shaft Dia. x Len.	Price $
5613-34CI	1 SS Impeller/Clockwise Rotation Air Mixer,1/4HP	Clamp	1/2" x 34"	845.00
5613-34CP	1 SS Propeller/Clockwise Rotation Air Mixer,1/4HP	Clamp	1/2" x 34"	927.00
5615-36BI	2 SS Impellers/Clockwise Rotation Air Mixer,1/3HP	Bracket	1/2" x 36"	770.00
5615-36BP	2 SS Propellers/Clockwise Rotation Air Mixer,1/3HP	Bracket	1/2" x 36"	845.00
5617-36CI	3 SS Impellers/Reversible Rotation Air Mixer,1/2HP	Clamp	1/2" x 36"	852.00
5617-36CP	3 SS Propellers/Reversible Rotation Air Mixer,1/2HP	Clamp	1/2" x 36"	1017.00
5618-44BI	4 SS Impellers/Reversible Rotation Air Mixer,1HP	Bracket	5/8" x 44"	POA
5618-44BP	4 SS Propellers/Reversible Rotation Air Mixer,1HP	Bracket	5/8" x 44"	POA

7

Note: Reversed rotation is not recommended on propeller style mixers. All Wingert Air Mixers require mist lubricators to validate warranty.

Accessories

Shaft Assemblies

Part #	Description	Mixer Type	Price SS Imp.	Price Std Prp.
5516-I	1/2" x 36" 304SS shaft & 1 set of IMP	CW1, R1	$ 83.00	-
5516-P	1/2" x 36" 304SS shaft & 1 set of PRP	CW1, R1	-	182.00*
5517-I	1/2" x 36" 304SS shaft & 2 sets of IMP	CW2, R2	105.00	-
5517-P	1/2" x 36" 304SS shaft & 2 sets of PRP	CW2, R2	-	311.00
5519-P	5/8" x 48" 304SS shaft & 4 sets of PRP	R4	-	601.00

*Replacement not based on std thread mounted air mixer. NOTE: Field balancing may be necessary. Verify replacement part # when ordering.

Optional Features

Description	Price $
316 SS shaft & IMP / PRP in place of Std. 304 SS	35.00
316 SS coupling in place of standard brass coupling	115.00
Black epoxy coating on SS shaft & impellers / propellers	48.00
Longer than standard shaft (1/20HPmax-36",others-48")	35.00

All prices subject to change without notice.

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Mixers

General Purpose Low Speed (60 RPM) Electric Mixers



Features
- 60 RPM
- Bracket, clamp, or tank stand mount
- Continuous duty
- 1/4, 1/3, 1/2 horsepower
- TEFC, open, explosion proof or air powered motors
- Available with 1, 2, or 3 stainless steel impellers
- Factory wiring, topical coating, variable shaft lengths

Options
- Impellers / Propellers 304 or 316 SS
- 316 SS Coupling in place of Brass
- Black Epoxy Coating on shaft and impellers
- Special Shaft Length (Max. 120")
- Custom mixers made to your specifications



Impeller

Motor Type	Horse Power	Motor Shaft	Std. Shaft Clamp/Brac	Std. Shaft Diameter	Number of Impellers	Part #	Bracket Mount	Clamp Mount
TEFC, 115V, 1PHS, 60HZ	1/4	3/4"	44"	5/8"	1	5619-B	$1316.00	-
	1/4	3/4"	36"	5/8"	1	5619-C	-	1385.00
	1/3	3/4"	44"	5/8"	2	5620-B	1248.00	-
	1/3	3/4"	36"	5/8"	2	5620-C	-	1287.00
	1/2	3/4"	44"	5/8"	3	5621-B	1278.00	-
	1/2	3/4"	36"	5/8"	3	5621-C	-	1304.00

Accessories

Shaft and Impeller Assemblies

Part #	Mixer* Type -HP	Description	Price
5524	C -1/4	5/8" x36" shaft with 1 set of impellers	$ 179.00
5525	C -1/3	5/8" x36" shaft with 2 sets of impellers	289.00
5526	C -1/2	5/8" x36" shaft with 3 sets of impellers	398.00
5527	B -1/4	5/8" x44" shaft with 1 set of impellers	188.00
5528	B -1/3	5/8" x 44" shaft with 2 sets of impellers	298.00
5529	B -1/2	5/8" x44" shaft with 3 sets of impellers	407.00

Optional Features

Description	Price
316 SS shaft & IMP / PRP in place of 304 SS	$ 65.00
Black epoxy coating on SS shaft & impellers / propellers	125.00
Longer than standard shaft (all models max. is 60")	99.00



MINI FILTERS

Size	AUTOMATIC DRAIN Part #	AUTOMATIC DRAIN Price $	MANUAL DRAIN Part #	MANUAL DRAIN Price
1/8"	1430	73.15	1431	$ 62.75
1/4"	1432	71.45	1433	61.25

Designed for use where performance is required in a min. space. Transparent bowls, 5-micron element standard.



MINI REGULATORS

Size	WITH GAUGE Part #	WITH GAUGE Price $	WITHOUT GAUGE Part #	WITHOUT GAUGE Price
1/8"	1434	64.20	1435	$ 47.50
1/4"	1436	63.80	1437	47.10

Relieving Type Standard models adjustable 3-100 PSIG. Compact unit gives reliable regulation at flows up to 15 scfm at 100 PSIG.



MINI FILTER / Air REGULATORS

Size	AUTOMATIC Part #	AUTOMATIC Price $	MANUAL Part #	MANUAL Price
1/8"	1438	134.75	1439	$ 119.95
1/4"	1440	129.60	1441	118.60

Space-saving filter/regulator offering two functions in one unit. Standard model: 2-100 PSIG adjustable range, relieving type diaphragm, transparent bowl (guard not available), 5-micron filter element, gauge, non-rising adjustment with easily sealed lock ring to resist tampering. ONE OUNCE RESERVOIR.



MINI COMBINATION (Filter, Air Regulator, Lubricator)

Size	AUTOMATIC DRAIN Part #	AUTOMATIC DRAIN Price $	MANUAL DRAIN Part #	MANUAL DRAIN Price
1/8"	1442	278.75	1443	$ 268.35
1/4"	1444	274.35	1445	264.15

Mixers



Industrial (350 RPM) Mixers - 1/3 to 5 HP

Features
- Mixers will operate in tank sizes from 200 to 5000 gallons
- Bracket or Clamp Mount with pivot
- Fluid viscosities to 2000 CPS
- 350 RPM mixers with a 5:1 gear reducer for maximum torque
- Standard 304 Stainless Steel Shafts and propellers

Options
- Wide variety of motor choices
- Black Epoxy Coating on shaft and impellers
- Shaft Length to 8 feet for larger tanks
- 115 or 230 Volts, 1 phs, AC 8 ft. power cord
- Custom mixers made to your specifications

Sizing Graph:

NOTE: This sizing graph is offered as a reference for choosing a "350 RPM Mixer" with a cylindrical tank. Any questions on your application contact our sales office.

TANK SIZE (GALLONS)	CENTIPOISE RATING					
	1	100	300	500	1000	2000
200				1/3 HP	1/3 HP	1/2 HP
300			1/3 HP	1/3 HP	1/3 HP	1/2 HP
500		1/3 HP	1/3 HP	1/3 HP	1/3 HP	1/2 HP
1000	1/3 HP	1/3 HP	1/3 HP	1/2 HP	3/4 HP	1 HP
2000	1/3 HP	1/3 HP	3/4 HP	1 HP	1 1/2 HP	1 1/2 HP
3000	1/3 HP	1/2 HP	1 HP	1 1/2 HP	2 HP	3 HP
5000	1/3 HP	1 HP	1 HP	2 HP	3 HP	5 HP

CLAMP MOUNT

Motor Type	Horse Power	Standard Shaft Dia.	Std. Shaft Length	PROPELLER SIZE		CLAMP PRICES			
				SINGLE	* DUAL	Part #	SINGLE	Part #	* DUAL
115 / 230V 1 PHASE	1/3	3/4"	48"	10"	8"	5622-S	$1358.00	5622-D	1584.00
	1/2	3/4"	48"	12"	10"	5623-S	1624.00	5623-D	1742.00
	3/4	3/4"	60"	13"	11"	5624-S	2056.00	5624-D	2536.00

BRACKET MOUNT

Motor Type	Horse Power	Standard Shaft Dia.	Std. Shaft Length	PROPELLER SIZE		CLAMP PRICES			
				SINGLE	* DUAL	Part #	SINGLE	Part #	* DUAL
115 / 230V 1 PHASE	1/3	3/4"	48"	10"	8"	5629-S	$1346.00	5629-D	1576.00
	1/2	3/4"	48"	12"	10"	5630-S	1617.00	5630-D	1726.00
	3/4	3/4"	60"	13"	11"	5631-S	2046.00	5631-D	2523.00
230 / 460V 3 PHASE	1	1"	60"	14"	12"	5632-S	2534.00	5632-D	2639.00
	2	1 1/4"	60"	16"	14"	5634-S	3929.00	5634-D	4215.00

Optional Features	
Description	Price
115 or 230 Volts, 1 phs, AC 8 ft. power cord	$ 35.00
Black epoxy coating of shaft and propellers	125.00
Longer than std. shaft, 3/4" dia. up to 72"	85.00
Longer than std. shaft, 1" dia. up to 84"	115.00
Longer than std. shaft, 1 1/4" dia. up to 96"	195.00

* Dual Propellers should be utilized on applications above 1000 CPS



Propeller

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Mixers

Clear PVC Static Mixers - Series 308



Features:

This unit is a clear PVC static mixer, which unlike other static mixers, allows visual inspection of the mixed product. All Series 308 mixers are made in standard 6 element and 12 element configurations. Additionally, all static mixers are edge sealed to the inside of the housing. The advantages of edge sealing are twofold. Not only does edge sealing increase mixing efficiency, but this bonding method also increases the structural integrity of the entire mixer. All mixers come standard with male NPT threads in sizes 3/8" - 2". One of the primary uses of the Series 308 mixers is in the dilution of polymers and flocculants. Therefore with proper blending, it is quite common to recover the cost of a mixer in a short period of time. This is the result of lower chemical costs associated with better mixing.

Part #	Size	Description	Length	# of Elements	Price
3/8-40C-4-6-2	3/8"	Clear PVC Static Mixer	6-1/2"	6	79.65
3/8-40C-4-12-2	3/8"	Clear PVC Static Mixer	11"	12	93.50
1/2-40C-4-6-2	1/2"	Clear PVC Static Mixer	7"	6	105.00
1/2-40C-4-12-2	1/2"	Clear PVC Static Mixer	12"	12	116.75
3/4-40C-4-6-2	3/4"	Clear PVC Static Mixer	9"	6	112.00
3/4-40C-4-12-2	3/4"	Clear PVC Static Mixer	15"	12	129.25
1-40C-4-6-2	1"	Clear PVC Static Mixer	11"	6	123.50
1-40C-4-12-2	1"	Clear PVC Static Mixer	18"	12	161.75
1.25-40C-4-6-2	1 1/4"	Clear PVC Static Mixer	14"	6	136.00
1.25-40C-4-12-2	1 1/4"	Clear PVC Static Mixer	25"	12	173.25
1.5-40C-4-6-2	1 1/2"	Clear PVC Static Mixer	15"	6	148.85
1.5-40C-4-12-2	1 1/2"	Clear PVC Static Mixer	28"	12	185.80
2-40C-4-6-2	2"	Clear PVC Static Mixer	19"	6	178.85
2-40C-4-12-2	2"	Clear PVC Static Mixer	35"	12	203.15

Gray PVC Static Mixers - Series 328



Features:

A complete line of industrial grade Sch-80 PVC static mixers are available in sizes ranging from 1/2" - 20". Each threaded mixer from 1/2"-2", with both 6 and 12 mixing elements are available from stock. Each flanged mixer is custom designed for each application. Size permitting, all static mixers are both hot air-welded and solvent-cemented into the housing. This method provides a high strength bond and also edge-seals the elements to prevent liquid from "slip streaming" around the element.

Part #	Size	Description	Length	# of Elements	Price
1/2-80-4-6-2	1/2"	Gray PVC Static Mixer	7"	6	176.55
1/2-80-4-12-2	1/2"	Gray PVC Static Mixer	11"	12	295.50
3/4-80-4-6-2	3/4"	Gray PVC Static Mixer	8"	6	181.15
3/4-80-4-12-2	3/4"	Gray PVC Static Mixer	14"	12	302.50
1-80-4-6-2	1"	Gray PVC Static Mixer	10"	6	198.50
1-80-4-12-2	1"	Gray PVC Static Mixer	19"	12	327.70
-	-	-	-	-	-
-	-	-	-	-	-
1.5-80-4-6-2	1 1/2"	Gray PVC Static Mixer	15"	6	241.15
1.5-80-4-12-2	1 1/2"	Gray PVC Static Mixer	26"	12	399.25
2-80-4-6-2	2"	Gray PVC Static Mixer	18"	6	280.40
2-80-4-12-2	2"	Gray PVC Static Mixer	33"	12	465.00

Eagle Budget Basins and Spill Pallets

Eagle Budget Basins add low cost spill protection to your workplace. Drums rest on the floor of the basin sump with 6.5" high sidewall. High density polyethylene (HDPE) construction for excellent chemical resistance. Eagle Spill Pallets are the most flexible and comprehensive spill protection, containment and storage products on the market today. Pallets are constructed of high density polyethylene (HDPE) for excellent chemical resistance and feature Eagle's patented removable black HDPE grating for easier cleaning.



1636



1631



1638



1620B



1645BND



1640BND



1646



Displaying 1631 with Drums



Displaying 1646 with 1689 Ramp



Displaying 1640 with Drums

7

Eagle Budget Basins and Spill Plattes

Description	Dimensions WDH (in)	Sump Cp (gal)	Wt. (lbs)	Load Cp (lbs)	Fork Pockets	Compliance	Mfg Part #	Price $
1 Drum Budget Basin - Yellow No Drain	26 1/4 x 26 1/4 x 6 1/2	17.5	10	5,000	No	N/A	1636	80.00
2 Drum Budget Basin - Yellow No Drain	26 1/4 x 51 1/2 x 6 1/2	34	20	5,000	No	N/A	1631	120.57
4 Drum Budget Basin - Yellow Drain	51 1/2 x 51 1/2 x 7	66	25	5,000	No	N/A	1638	229.61
2 Drum Pallet - Yellow No Drain	51 x 26 1/4 x 13 3/4	66	52	4,000	Yes	EPA / SPCC	1620ND	380.00
2 Drum Pallet - Yellow Drain	51 x 26 1/4 x 13 3/4	66	52	4,000	Yes	EPA / SPCC	1620	331.10
2 Drum Pallet - Black No Drain	51 x 26 1/4 x 13 3/4	66	52	4,000	Yes	EPA / SPCC	1620BND	380.00
2 Drum Pallet - Black Drain	51 x 26 1/4 x 13 3/4	66	52	4,000	Yes	EPA / SPCC	1620B	382.20
4 Drum Pallet - Yellow No Drain	51 1/2 x 51 1/2 x 8	66	67	8,000	Yes	EPA / SPCC	1645ND	472.00
4 Drum Pallet - Yellow Drain	51 1/2 x 51 1/2 x 8	66	67	8,000	Yes	EPA / SPCC	1645	413.83
4 Drum Pallet - Black No Drain	51 1/2 x 51 1/2 x 8	66	67	8,000	Yes	EPA / SPCC	1645BND	472.00
4 Drum Pallet - Black Drain	51 1/2 x 51 1/2 x 8	66	67	8,000	Yes	EPA / SPCC	1645B	477.72
4 Drum Pallet - Yellow No Drain	52 1/2 x 51 x 13 3/4	132	104	8,000	Yes	EPA / SPCC	1640ND	540.00
4 Drum Pallet - Yellow Drain	52 1/2 x 51 x 13 3/4	132	104	8,000	Yes	EPA / SPCC	1640	471.82
4 Drum Pallet - Black No Drain	52 1/2 x 51 x 13 3/4	132	104	8,000	Yes	EPA / SPCC	1640BND	540.00
4 Drum Pallet - Black Drain	52 1/2 x 51 x 13 3/4	132	104	8,000	Yes	EPA / SPCC	1640B	544.64
4 Drum Nestable Pallet - Yellow Drain	58 1/2 x 58 1/2 x 7 3/4	66	72	6,000	Yes	EPA / SPCC	1646	451.77

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Eagle Modular Spill Platforms



Modular design allows for multiple configurations. Easy to connect with built-in U-channel. Low profile for easy loading and unloading.

Eagle Modular Spill Platforms are the most flexible and comprehensive spill protection, containment and storage products on the market today. Platforms are constructed of high density polyethylene (HDPE) for excellent chemical resistance and feature Eagle's patented removable black HDPE grating for easier cleaning.



1633



1632B



1634



1647B



1635B



1686D



1688B

7

Eagle Modular Spill Platforms

Description	Dimensions WDH (in)	Sump Cp (gal)	Wt. (lbs)	Load Cp (lbs)	Fork Pockets	Compliance	Mfg Part #	Price $
1 Drum Modular Platform - Yellow No Drain	26 1/4 x 26 x 6 1/2	12	16	2,000	No	EPA	1633	119.54
1 Drum Modular Platform - Yellow Drain	26 1/4 x 26 x 6 1/2	12	16	2,000	No	EPA	1633D	144.00
1 Drum Modular Platform - Black No Drain	26 1/4 x 26 x 6 1/2	12	16	2,000	No	EPA	1633B	138.00
1 Drum Modular Platform - Black Drain	26 1/4 x 26 x 6 1/2	12	16	2,000	No	EPA	1633BD	144.00
2 Drum Modular Platform - Yellow No Drain	26 1/4 x 51 1/2 x 6 1/2	30	32	5,000	Yes	EPA	1632	216.99
2 Drum Modular Platform - Yellow Drain	26 1/4 x 51 1/2 x 6 1/2	30	32	5,000	Yes	EPA	1632D	260.00
2 Drum Modular Platform - Black No Drain	26 1/4 x 51 1/2 x 6 1/2	30	32	5,000	Yes	EPA	1632B	250.48
2 Drum Modular Platform - Black Drain	26 1/4 x 51 1/2 x 6 1/2	30	32	5,000	Yes	EPA	1632BD	260.00
4 Drum Modular Platform (2 Piece) - Yellow No Drain	51 1/2 x 52 1/2 x 6 1/2	30	65	10,000	Yes	EPA	1634	390.58
4 Drum Modular Platform - Yellow No Drain	51 1/2 x 52 1/2 x 6 1/2	60.5	65	10,000	Yes	EPA / SPCC	1635	400.00
4 Drum Modular Platform - Yellow Drain	51 1/2 x 52 1/2 x 6 1/2	60.5	65	10,000	Yes	EPA / SPCC	1635D	410.00
4 Drum Modular Platform - Black No Drain	51 1/2 x 52 1/2 x 6 1/2	60.5	65	10,000	Yes	EPA / SPCC	1635B	400.00
4 Drum Modular Platform - Black Drain	51 1/2 x 52 1/2 x 6 1/2	60.5	65	10,000	Yes	EPA / SPCC	1635BD	410.00
4 Drum In-Line Modular Platform - Yellow No Drain	103 1/2 x 26 1/4 x 6 1/2	60.5	64	8,000	No	EPA / SPCC	1647	415.82
4 Drum In-Line Modular Platform - Yellow Drain	103 1/2 x 26 1/4 x 6 1/2	60.5	64	8,000	No	EPA / SPCC	1647D	488.00
4 Drum In-Line Modular Platform - Black No Drain	103 1/2 x 26 1/4 x 6 1/2	60.5	64	8,000	No	EPA / SPCC	1647B	480.00
4 Drum In-Line Modular Platform - Black Drain	103 1/2 x 26 1/4 x 6 1/2	60.5	64	8,000	No	EPA / SPCC	1647BD	488.00
6 Drum Modular Platform - Yellow No Drain	78 1/4 x 51 1/2 x 6 1/2	88	85	8,000	No	EPA / SPCC	1686	733.12
6 Drum Modular Platform - Yellow Drain	78 1/4 x 51 1/2 x 6 1/2	88	85	8,000	No	EPA / SPCC	1686D	852.00
6 Drum Modular Platform - Black No Drain	78 1/4 x 51 1/2 x 6 1/2	88	85	8,000	No	EPA / SPCC	1686B	846.28
6 Drum Modular Platform - Black Drain	78 1/4 x 51 1/2 x 6 1/2	88	85	8,000	No	EPA / SPCC	1686BD	852.00
8 Drum Modular Platform - Yellow No Drain	103 x 51 1/2 x 6 1/2	121 (60.5 per side)	112	10,000	No	EPA / SPCC	1688	875.03
8 Drum Modular Platform - Yellow Drain	103 x 51 1/2 x 6 1/2	121 (60.5 per side)	112	10,000	No	EPA / SPCC	1688D	1016.00
8 Drum Modular Platform - Black No Drain	103 x 51 1/2 x 6 1/2	121 (60.5 per side)	112	10,000	No	EPA / SPCC	1688B	1010.10
8 Drum Modular Platform - Black Drain	103 x 51 1/2 x 6 1/2	121 (60.5 per side)	112	10,000	No	EPA / SPCC	1688BD	1016.00

Eagle IBC Containment Units, Sumps and Spill Kit Boxes

Eagle IBC Containment Units are constructed of with 100% high density polyethylene (HDPE) with a choice of metal or poly platform. Eagle's Spill Containment Sumps are an economical containment solution for 275 and 550 gallon horizontal tanks. Sumps are constructed of a one-piece molded high density polyethylene (HDPE) for excellent chemical resistance that will not rust or corrode. Eagle Spill Kit Boxes come in two sizes (110 and 220 gallon) in yellow of black HDPE. These Spill Kit Boxes work well for both routine maintenance and emergency spill response.



1680



1683D



1684



16-275D



16-550D



1624K



1625K

7

Eagle IBC Containment Units, Sumps and Spill Kit Boxes

Description	Dimensions WDH (in)	Sump Cp (gal)	Wt. (lbs)	Load Cp (lbs)	Fork Pockets	Compliance	Mfg Part #	Price $
IBC Containment Unit with Steel Platform - Yellow No Drain	67 x 67 x 26	400	270	10,000	No	EPA / SPCC	1680	2121.50
IBC Containment Unit with Poly Platform - Yellow No Drain	67 x 67 x 26	400	245	10,000	No	EPA / SPCC	1683	1767.21
IBC Containment Unit with Poly Platform - Yellow Drain	67 x 67 x 26	400	245	10,000	No	EPA / SPCC	1683D	2040.00
IBC Containment Unit with Poly Platform - Black No Drain	67 x 67 x 26	400	245	10,000	No	EPA / SPCC	1683B	2000.00
IBC Containment Unit with Poly Platform - Black Drain	67 x 67 x 26	400	245	10,000	No	EPA / SPCC	1683BD	2000.00
Double All Poly IBC Containment Unit - Yellow No Drain	118 x 77 1/2 x 20	400	450	10,000 (per platform)	No	EPA / SPCC	1684	3495.17
Double All Poly IBC Containment Unit - Yellow Drain	118 x 77 1/2 x 20	400	450	10,000 (per platform)	No	EPA / SPCC	1684D	3786.30
Double All Poly IBC Containment Unit - Black No Drain	118 x 77 1/2 x 20	400	450	10,000 (per platform)	No	EPA / SPCC	1684B	3700.00
Double All Poly IBC Containment Unit - Black Drain	118 x 77 1/2 x 20	400	450	10,000 (per platform)	No	EPA / SPCC	1684BD	3700.00
Horizontal Tank Spill Containment Sump - Black No Drain	44 x 84 x 30	373	86	10,000	No	EPA / SPCC	16-275	900.00
Horizontal Tank Spill Containment Sump - Black Drain	44 x 84 x 30	373	86	10,000	No	EPA / SPCC	16-275D	920.00
Horizontal Tank Spill Containment Sump - Black No Drain	62 x 88 x 33	635	118	10,000	No	EPA / SPCC	16-550	1280.00
Horizontal Tank Spill Containment Sump - Black Drain	62 x 88 x 33	635	118	10,000	No	EPA / SPCC	16-550D	1300.00
Spill Kit Box with Lid - Yellow No Drain	60 x 34 x 24	110	75	N/A	Yes	N/A	1624K	800.00
Spill Kit Box with Lid - Black No Drain	60 x 34 x 24	110	75	N/A	Yes	N/A	1624KB	760.00
Spill Kit Box with Lid - Yellow No Drain	60 x 34 x 42	220	110	N/A	Yes	N/A	1625K	960.00
Spill Kit Box with Lid - Black No Drain	60 x 34 x 42	220	110	N/A	Yes	N/A	1625KB	920.00

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Eagle Outdoor Drum Storage, Workstations & Horizontal Drum Stacking Systems

Constructed of high density polyethylene (HDPE) with UV inhibitors, Eagle's Outdoor Drum Storage protects up to four 55 gallon drums from the elements. Eagle's Two Drum Workstations are a secure way to store drums inside or outside. Available in low profile or high profile for the storage of two drums. Forkliftable and optional dolly allows easier movement on worksite. The Eagle Horizontal Drum Stacking System is used in combination with Eagle's spill containment platforms. All components are designed to lock into spill grating for stable drum storage and are ideal for chemical storage and dispensing.



1646RTC



1649



1626



1628



1605



1606



1607



1608



Displaying 1649 with 1689 Ramp



Displaying 1605, 1606 and 1608
on 1632 Two Drum Modular Platform

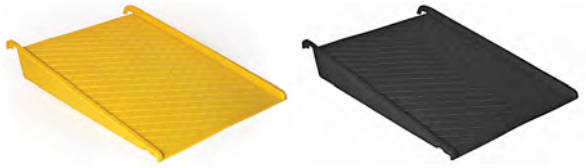


Displaying 1605, 1607 and 1608
on 1645 Four Drum Pallet

Eagle Outdoor Drum Storage, Workstations & Horizontal Drum Stacking Systems

Description	Dimensions WDH (in)	Sump Cp (gal)	Wt. (lbs)	Load Cp (lbs)	Fork Pockets	Compliance	Mfg Part #	Price $
Rotary Top Containment Unit - Yellow Drain	59 1/2 x 73 1/2 x 68	66	295	6,000	Yes	EPA / SPCC	1646RTC	2163.00
4 Drum Poly Storage Building - Yellow No Drain	57 1/2 x 57 1/2 x 72	66	250	8,000	Yes	EPA / SPCC	1649	2338.97
2 Drum Low-Profile Workstation - Yellow No Drain	60 x 34 x 46	110	89	4,000	Yes	EPA / SPCC	1626	1037.94
2 Drum High-Profile Workstation - Yellow No Drain	60 x 34 x 64	220	120	4,000	Yes	EPA / SPCC	1628	1206.80
Cradle - Yellow No Drain	29 x 26 1/2 x 22 1/2	N/A	30	2,000	N/A	EPA / SPCC	1605	260.24
Single Stacker - Yellow No Drain	27 x 26 1/2 x 29	N/A	30	1,000	N/A	EPA / SPCC	1606	286.27
Double Stacker - Yellow No Drain	48 x 26 1/2 x 13	N/A	30	2,000	Yes	EPA / SPCC	1607	343.07
Shelf - Yellow No Drain	19 x 23 x 19	N/A	15	100	N/A	EPA / SPCC	1608	120.93

Eagle Spill Containment Accessories



The Eagle Poly Pallet Ramp is constructed of high density polyethylene (HDPE) for strength and durability. For easy loading and unloading on and off Eagle pallets and platforms 1632, 1634, 1635, 1645, 1646, 1647, 1686, 1688, 1646RTC and 1649.

Poly Pallet Ramp

Description	Dimensions (in)	Wt. (lbs)	Load Cp (lbs)	Mfg Part #	Price $
Poly Pallet Ramp - Yellow	45 1/2 x 32 x 8	32	1,500	1689	212.17
Poly Pallet Ramp - Black	45 1/2 x 32 x 8	32	1,500	1689B	244.92





Containment Utility Tray and Grating

Description	Dimensions (in)	Grating Opening (in)	Mfg Part #	Price $
Containment Utility Tray - Yellow	18 x 36 x 2	N/A	1677	34.46
Containment Utility Tray - Black	18 x 36 x 2	N/A	1677B	33.49
Containment Utility Tray Grate	51 1/2 x 25 1/4	2 1/2 x 3 3/16 max.	1642-IB	74.80
Containment Utility Tray Grate	51 1/4 x 25 1/4	1 3/4 x 1 3/4 max.	1642-B	74.80
Containment Utility Tray Grate	25 1/4 x 25 1/4	2 1/2 x 3 3/16 max.	1642-S	36.34

This HDPE tray is an affordable way to contain small spills up to five gallons. For countertop use for the working storage of lab chemicals, as a drip pan under dispensers or as a floor tray under machinery. These trays are stackable for easy storage and feature a ribbed bottom.

7



The safety of a spill containment platform with the convenience of mobility–safely transfer containers between workstations.

Mobile Spill Control Platform

Description	Dimensions (in)	Wt. (lbs)	Load Cp (lbs)	Mfg Part #	Price $
Mobile Spill Control Platform	28 x 56 x 41	92	2,000	1637	896.26



Mobile dispensing unit protects against incidental spills and leaks for 30-, 55- and 95-gallon drums. The durable polyethylene Bogie resists corrosion; has five swivel casters for maximum stability, load capacity and maneuverability; and features a poly push-pull handle.

Drum Bogie

Description	Dimensions (in)	Wt. (lbs)	Load Cp (lbs)	Mfg Part #	Price $
Drum Bogie	35 3/4 x 42	30	1,250	1613	223.16

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Eagle Poly Drums

For nearly 30 years, Eagle Manufacturing's ever-growing Poly Drum product line has handled both hazardous and non-hazardous material storage needs for our customers by offering Lab Packs, Overpack, Open-Head and Salvage Drums. The 14-, 20-, 30- and 55-gallon lab packs and open-head drums are available with plastic lids and a choice of metal or plastic lever locking rings. The 14-, 20-, 30-, 55-, 65- and 95-gallon overpack and salvage drums are available with metal bands or screw-on lids. All models are constructed of chemical resistant, high-density polyethylene (HDPE) with UV inhibitors, durable and lightweight and available in yellow, blue and black. All of our products are 100 percent made in the USA.


1610


1610BLK


1610M


1610MB


1610MBLK


1652


1654


1623


1623BLK


1623M


1623MB


1623MBLK


1601


1601BLK


1601M


1601MB


1601MBLK


1602

Eagle Poly Drums

Style	Closure Type	Inside Dimensions TBH (in)	Outside Dimensions. TBH (in)	Max Cp (lbs)	Total Cp (gal)	Max Contr. Size (gal)	Wt. (lbs)	UN/DOT Rating	Mfg Part #	Price $
Lab Pack Open Head Drum	Plastic Lever-Lock	13 1/2 x 12 3/8 x 25	15 x 12 3/4 x 26 1/2	143	14	5	9	1H2/Y100/S	1610	49.44
Lab Pack Open Head Drum	Plastic Lever-Lock	13 1/2 x 12 3/8 x 25	15 x 12 3/4 x 26 1/2	143	14	5	9	1H2/Y100/S	1610BLK	48.05
Lab Pack Open Head Drum	Metal Lever-Lock	13 1/2 x 12 3/8 x 25	15 x 12 3/4 x 26 1/2	220	14	5	10	1H2/X65&Y100/S	1610M	50.48
Lab Pack Open Head Drum	Metal Lever-Lock	13 1/2 x 12 3/8 x 25	15 x 12 3/4 x 26 1/2	220	14	5	10	1H2/X65&Y100/S	1610MB	50.48
Lab Pack Open Head Drum	Metal Lever-Lock	13 1/2 x 12 3/8 x 25	15 x 12 3/4 x 26 1/2	220	14	5	10	1H2/Y100/S	1610MBLK	49.06
Lab Pack	Plastic Lever-Lock	19 x 16 5/16 x 19	20 7/8 x 16 11/16 x 20 7/16	88	20	5	15	1H2/X40/S	1652	59.17
Salvage Drum	Metal Lever-Lock	19 x 16 5/16 x 19	20 7/8 x 16 11/16 x 20 7/16	165	20	5	16	1H2/X75/S	1654	62.67
Lab Pack Open Head Drum	Plastic Lever-Lock	15 3/8 x 12 7/8 x 29 7/8	15 3/4 x 13 1/4 x 30 1/2	Pending	20	5	10.25	Pending	1623	51.98
Lab Pack Open Head Drum	Plastic Lever-Lock	15 3/8 x 12 7/8 x 29 7/8	15 3/4 x 13 1/4 x 30 1/2	Pending	20	5	10.25	Pending	1623BLK	48.11
Lab Pack Open Head Drum	Metal Lever-Lock	15 3/8 x 12 7/8 x 29 7/8	15 3/4 x 13 1/4 x 30 1/2	221	20	5	11.5	1H2/X75&Y100/S	1623M	56.31
Lab Pack Open Head Drum	Metal Lever-Lock	15 3/8 x 19 x 38 9/16	15 3/4 x 19 3/8 x 39 1/8	221	20	5	11.5	1H2/X75&Y100/S	1623MB	56.31
Lab Pack Open Head Drum	Metal Lever-Lock	15 3/8 x 19 x 38 9/16	15 3/4 x 19 3/8 x 39 1/8	221	20	5	11.5	1H2/X75&Y100/S	1623MBLK	52.13
Lab Pack Open Head Drum	Plastic Lever-Lock	19 x 16 1/4 x 26 3/8	21 1/8 x 16 5/8 x 28 1/2	221	30	16	16	1H2/X100&Y100/S	1601	62.78
Lab Pack Open Head Drum	Plastic Lever-Lock	19 x 16 1/4 x 26 3/8	21 1/8 x 16 5/8 x 28 1/2	221	30	16	18	1H2/X100&Y100/S	1601BLK	60.61
Lab Pack Open Head Drum	Metal Lever-Lock	19 x 16 1/4 x 26 3/8	21 1/8 x 16 5/8 x 28 1/2	396	30	16	18	1H2/X120&Y180/S	1601M	65.21
Lab Pack Open Head Drum	Metal Lever-Lock	19 x 16 1/4 x 26 3/8	21 1/8 x 16 5/8 x 28 1/2	396	30	16	18	1H2/X120&Y180/S	1601MB	65.87
Lab Pack Open Head Drum	Metal Lever-Lock	19 x 16 1/4 x 26 3/8	21 1/8 x 16 5/8 x 28 1/2	396	30	16	18	1H2/X120&Y180/S	1601MBLK	62.97
Salvage Drum	Metal Lever-Lock	19 x 16 1/4 x 26 3/8	21 1/8 x 16 5/8 x 28 1/2	396	30	16	18	1H2/X120&Y180/S	1602	67.68

Spill Containment Systems

Eagle Poly Drums

Lab Packs/Open Head - for use with smaller non-damaged bottles, cans, carboys and 5-gallon pails of non-leaking hazardous materials - if leaking, must pack with sufficient sorbents for - NO FREE LIQUIDS.

Salvage Drums - for use with damaged or leaking containers of hazardous materials or used absorbent materials contaminated with a hazardous substance. Require “Salvage Drum” labeling and must pass a 3-PSI pressure test.

Overpacks - for use with larger non-damaged containers, cans and drums of non-leaking hazardous materials - if leaking, must pack with sufficient sorbents for - NO FREE LIQUIDS.


1655


1655BLK


1655M


1655MB


1655MBLK


1656


1656BLK


1656M


1656MB


1656MBLK


1650


1600SL


1657


1661


1665


1690


1695

Eagle Poly Drums

Style	Closure Type	Inside Dimensions TBH (in)	Outside Dimensions. TBH (in)	Max Cp (lbs)	Total Cp (gal)	Max Contr. Size (gal)	Wt. (lbs)	UN/DOT Rating	Mfg Part #	Price $
Lab Pack Open Head Drum	Plastic Lever-Lock	22 7/8 x 19 x 38 9/16	23 3/4 x 19 3/8 x 39 1/8	552	57	30	23.5	1H2/X100&Y100/S	1655	107.41
Lab Pack Open Head Drum	Plastic Lever-Lock	22 7/8 x 19 x 38 9/16	23 3/4 x 19 3/8 x 39 1/8	552	57	30	23.5	1H2/X100&Y100/S	1655BLK	104.40
Lab Pack Open Head Drum	Metal Lever-Lock	22 7/8 x 19 x 38 9/16	23 3/4 x 19 3/8 x 39 1/8	552	57	30	23.5	1H2/X100&Y100/S	1655M	112.62
Lab Pack Open Head Drum	Metal Lever-Lock	22 7/8 x 19 x 38 9/16	23 3/4 x 19 3/8 x 39 1/8	552	57	30	23.5	1H2/X200&Y250/S	1655MB	112.62
Lab Pack Open Head Drum	Metal Lever-Lock	22 7/8 x 19 x 38 9/16	23 3/4 x 19 3/8 x 39 1/8	552	57	30	23.5	1H2/X200&Y250/S	1655MBLK	109.46
Lab Pack	Plastic Lever-Lock	20 1/16 X 22 1/8 X 35 13/16	21 X 22 1/2 X 36 3/8	552	57.5	30	23.5	1H2/X100&Y100/S	1656	103.95
Salvage Drum	Metal Lever-Lock	20 1/16 X 22 1/8 X 35 13/16	21 X 22 1/2 X 36 3/8	552	57.5	30	23.5	1H2/X100&Y100/S	1656BLK	96.22
Lab Pack Open Head Drum	Plastic Lever-Lock	20 1/16 X 22 1/8 X 35 13/16	21 X 22 1/2 X 36 3/8	552	57.5	30	23.5	1H2/X200&Y250/S	1656M	107.41
Lab Pack Open Head Drum	Plastic Lever-Lock	20 1/16 X 22 1/8 X 35 13/16	21 X 22 1/2 X 36 3/8	552	57.5	30	23.5	1H2/X200&Y250/S	1656MB	107.41
Lab Pack Open Head Drum	Metal Lever-Lock	20 1/16 X 22 1/8 X 35 13/16	21 X 22 1/2 X 36 3/8	552	57.5	30	23.5	1H2/X200&Y250/S	1656MBLK	99.43
Lab Pack Open Head Drum	Metal Lever-Lock	19 3/8 X 16 3/8 X 20	20 3/8 X 16 3/4 X 20 3/4	125	20	5	13	1H2/X57/S	1650	54.12
Lab Pack Open Head Drum	Metal Lever-Lock	19 7/8 X 16 1/4 X 27	22 1/2 X 16 5/8 X 28 1/4	396	30	16	18	1H2/X120&Y180/S	1600SL	61.59
Lab Pack Open Head Drum	Plastic Lever-Lock	23 7/8 X 19 X 39 1/4	26 1/2 X 19 3/8 X 40	Pending	55	30	28	Pending	1657	129.94
Lab Pack Open Head Drum	Plastic Lever-Lock	27 1/8 X 25 15/16 X 31 1/4	31 X 26 7/16 X 33 3/4	660	65	30	45	1H2/X300/S	1661	219.07
Lab Pack Open Head Drum	Metal Lever-Lock	27 1/8 X 25 1/2 X 35 7/8	31 X 26 X 38 7/8	440	65	55	53	1H2/X200/S	1665	248.27
Lab Pack Open Head Drum	Metal Lever-Lock	27 1/8 X 25 9/16 X 39	31 X 26 1/16 X 41 1/4	660	95	55	50	1H2/X300/S	1690	243.41
Lab Pack Open Head Drum	Metal Lever-Lock	27 1/2 X 25 1/4 X 38	31 X 25 3/4 X 44 3/8	748	95	55	58	1H2/X340/S	1695	256.54

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Spill Containment Systems

UltraTech Ultra-Spill Pallets® - Plus Models



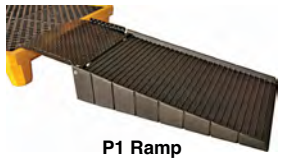
P1 Plus



P2 Plus



P4 Plus



P1 Ramp

Combine High-Strength And Low-Profile Features While Meeting EPA Container Storage Regulations

Features:

- Low profile positions drum funnels below eye level - significantly reduces the potential for hazardous fluids to splash into the eyes or face.
- Nearly 50% lower than standard spill pallets. Drum handling is safer and less strenuous.
- Forkliftable, all-polyethylene construction.
- Removable grates feature a non-slip surface.
- Available in 1, 2, 3, and 4-drum configurations.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.

UltraTech Ultra-Spill Pallets® - Plus Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P1 Plus (1-Drum) Without Drain	40 x 40 x 12	800	62	51.0	U9606	240.00
P1 Plus (1-Drum) With Drain	40 x 40 x 12	800	62	51.0	U9607	254.00
P2 Plus (2-Drum) Without Drain	65 1/2 x 40 x 8 3/4	4,500	66	88.0	U9610	294.00
P2 Plus (2-Drum) With Drain	65 1/2 x 40 x 8 3/4	4,500	66	88.0	U9611	310.00
P3 Plus (3-Drum) Without Drain	83 x 34 1/2 x 8 3/4	4,500	66	90.0	U9626	476.00
P3 Plus (3-Drum) With Drain	83 x 34 1/2 x 8 3/4	4,500	66	90.0	U9627	492.00
P4 Plus (4-Drum) Without Drain	62 x 62 x 8 3/4	9,000	75	140.0	U9630	486.00
P4 Plus (4-Drum) With Drain	62 x 62 x 8 3/4	9,000	75	140.0	U9631	506.00
P1 Ramp - Non-slip, Polyethylene & Steel	68 1/2 x 28 1/2 x 12	700	-	74.0	U0678	376.00
P2, P3 & P4 Ramp - Non-slip, Polyethylene & Steel	55 1/2 x 28 1/2 x 8 3/4	700	-	43.0	U0676	263.00
Optional P2 Pullover Cover	-	-	-	-	U9614	177.00
Optional P4 Pullover Cover	-	-	-	-	U9634	250.00

7

UltraTech Ultra-Spill Pallets® - Standard Models



P2 Pallet



P4 Pallet

Spill Pallets Are Built For Heavy Loads And Convenient Handling

Features:

- High load capacity - 6,000 lbs. for 4-Drum Model, 3,000 lbs. for 2-Drum Model.
- Bright, safety yellow sidewalls are translucent, offering convenient visual leak detection.
- 100% polyethylene construction - compatible with a broad range of chemicals, including acids and corrosives.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.



P2 Cover

UltraTech Ultra-Spill Pallets® - Standard Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P2 Pallet (2-Drum) Without Drain	53 x 29 x 16 1/2	3,000	66	63.0	1010	277.00
P2 Pallet (2-Drum) With Drain	53 x 29 x 16 1/2	3,000	66	63.0	1011	294.00
P4 Pallet (4-Drum) Without Drain	53 x 53 x 11 3/4	6,000	66	90.0	1000	369.00
P4 Pallet (4-Drum) With Drain	53 x 53 x 11 3/4	6,000	66	90.0	1001	384.00
Optional P2 Pullover Cover	-	-	-	-	1016	191.00
Optional P4 Pullover Cover	-	-	-	-	1006	228.00

NOTE: Compatible with Ramp - Part #0678

Spill Containment Systems

UltraTech Ultra-Spill Pallets® - Economy Models



P4 Economy

Developed Specifically To Meet Tight Budgets For Spill Containment Products

Features:
- Available in 2-drum and 4-drum configurations.
- Applications for the all-polyethylene units include satellite waste collection and storage of virgin chemicals.
- Black color helps hide dirt and grime.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.

UltraTech Ultra-Spill Pallets® - Economy Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P2 Economy (2-Drum) Without Drain	53 x 29 x 16 1/2	1,500	66	63.0	U2504	212.00
P2 Economy (2-Drum) With Drain	53 x 29 x 16 1/2	1,500	66	63.0	U2505	228.00
P4 Economy (4-Drum) Without Drain	53 x 53 x 11 3/4	3,000	66	85.0	U1112	309.00
P4 Economy (4-Drum) With Drain	53 x 53 x 11 3/4	3,000	66	85.0	U1113	325.00

NOTE: Compatible with Ramp - Part #0678, Optional P2 Pullover Cover - Part #1016 and Optional P4 Pullover Cover - Part #1006

UltraTech Ultra-Spill Pallets® - Nestable Models



Low-Profile, Nestable Spill Pallet Reduces Shipping Costs And Storage Space

Features:
- Large, 66-gallon sump captures leaks and spills from steel or poly drums (4 drum capacity).
- Nestable design allows multiple pallets to be shipped (or stored) in a minimal amount of space.
- 100% polyethylene construction - compatible with a broad range of chemicals, including acids and corrosives.
- Low-profile (10” height) makes drum handling safer and easier.
- 2-way forkliftable - provides easy positioning and relocation.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.

UltraTech Ultra-Spill Pallets® - Nestable Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
Nestable (4-Drum) Without Drain	51 x 51 x 10	6,000	66	80	U1230	369.00
Nestable (4-Drum) With Drain	51 x 51 x 10	6,000	66	80	U1231	385.00

NOTE: Compatible with Ramp - Part #0676

UltraTech Ultra-Spill Pallets® - Flexible Models



P2 Flexible

Lowest Cost Spill Containment Pallet Also Provides Flexibility For Storage And Shipping

Features:
- Economical spill containment for 55-gallon drums. Two and four drum configurations available.
- Outer yellow sump is constructed of heavy-duty, 24 Mil PVC material - folds/rolls down easily for convenient storage.
- Grating is supported by a ribbed, polyethylene, horizontal deck/platform with inter-connecting load bearing walls - disassembles/lays flat for compact shipping or storage.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.

UltraTech Ultra-Spill Pallets® - Flexible Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
Spill Pallet P2 (2-Drum) Without Drain	24 x 48 x 14	1,200	66	30.0	U1340	212.00
Spill Pallet P2 (2-Drum) With Drain	24 x 48 x 14	1,200	66	30.0	U1345	228.00
Spill Pallet P4 (4-Drum) Without Drain	48 x 48 x 7	2,400	66	49.0	U1341	309.00
Spill Pallet P4 (4-Drum) With Drain	48 x 48 x 7	2,400	66	49.0	U1346	325.00

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Spill Containment Systems

UltraTech Ultra-Spill Pallets® - Fluorinated Models



P2 Fluorinated

Specially Treated Spill Pallets Provide Maximum Protection

Certain chlorinated solvents are considered incompatible with standard polyethylene. However, a gas treatment process known as fluorination alters the surface of molded polyethylene products, making them compatible with these and many other aggressive chemicals. The light blue color indicates that the Spill Pallets and grates have been fluorinated.

UltraTech Ultra-Spill Pallets® - Fluorinated Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P2 Fluorinated (2-Drum) Without Drain	53 x 29 x 16 1/2	3,000	66	63.0	U1212	522.00
P2 Fluorinated (2-Drum) With Drain	53 x 29 x 16 1/2	3,000	66	63.0	U1213	539.00
P4 Fluorinated (4-Drum) Without Drain	51 x 51 x 10	6,000	66	80.0	U1233	716.00
P4 Fluorinated (4-Drum) With Drain	51 x 51 x 10	6,000	66	80.0	U1232	727.00

NOTE: Compatible with Ramp - Part #0676, Optional P2 Pullover Cover - Part #1016 and Optional P4 Pullover Cover - Part#1006

UltraTech Ultra-Spill King®



Spill King

Unique Design Combines A Variety Of Material Handling Capabilities With Spill Control

Features:

- Ultra-Spill King features a removable deck with 4-way forklift access. Combined with its 85-gallon containment sump, drum handling and storage have never been safer.
- Rugged polyethylene construction features a 6,500-pound static load capacity.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.
- NOTE: For drum use only (4 drum capacity).

UltraTech Ultra-Spill King®

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
Spill King (4-Drum) Without Drain	51 x 51 x 17 1/2	6,500	85	110.0	U0801	430.00
Spill King (4-Drum) With Drain	51 x 51 x 17 1/2	6,500	85	110.0	U0802	426.00
Drum Pallet Only	48 3/4 x 48 3/4 x 5 1/2	15,000	-	57.0	3000801	236.00

UltraTech Ultra-Spill Decks®



Deck Ramp



Low Profile, Modular Spill Decks Allow You To Design And Create A Containment System That Meets Your Specific Needs

Ultra-Spill Decks are available in 1, 2, and 4-drum modules. Modules are easily connected together with bulkhead fittings to allow a virtually unlimited number of customized configurations.

Features:

- Polyethylene construction meets a wide range of chemical compatibility needs.
- Low profile, 5 3/4" height offers safe and convenient loading/unloading of drums.
- Applications include hazardous waste collection, storage of virgin chemicals, drum dispensing, and battery storage.
- Optional Loading Ramps provide added drum handling safety and convenience.
- All Ultra-Spill Decks offer slip-resistant grating to reduce OSHA slip hazards.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.

UltraTech Ultra-Spill Decks®

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
Spill Deck P1 Module	25 7/8 x 25 7/8 x 5 3/4	1,500	11	23.0	U1321	148.00
Spill Deck P2 Module	52 x 25 7/8 x 5 3/4	3,000	22	40.0	U1086	224.00
Spill Deck P4 Module	52 x 52 x 5 3/4	6,000	44	70.0	U1072	350.00
Spill Deck Ramp	24 x 32 x 5 3/4	600	-	17.0	U1089	176.00
Bulkhead Fitting	-	-	-	1.0	U1073	12.00
26" T-Strip	-	-	-	1.0	U1131	6.00

Spill Containment Systems

UltraTech Ultra-Inline Spill Decks®



5 - Drum

Low Profile, "Inline" Designs Save Valuable Floor Space And Comply With Spill Containment Regulations

Features:
- Standard Inline Models include 3-drum, 4-drum, 5-drum, and 6-drum configurations.
- Narrow 25 7/8" depth allows drums to be stored in a single row along facility walls - minimizes space requirements.
- Low profile design reduces safety and handling concerns found with taller containment pallets.
- Additional Spill Deck modules can be easily connected to an existing inline configuration - allows more drums to be added to your containment area as storage needs grow.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175, and UFC Spill Containment Regulations.

UltraTech Ultra-Inline Spill Decks®

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
3 - Drum	77 7/8 x 25 7/8 x 5 3/4	4,500	99	67.0	U2360	495.00
4 - Drum	104 x 25 7/8 x 5 3/4	6,000	110	84.0	U2361	584.00
5 - Drum	129 7/8 x 25 7/8 x 5 3/4	7,500	121	107.0	U2333	743.00
6 - Drum	156 x 25 7/8 x 5 3/4	9,000	66	132.0	U2334	731.00

NOTE: Compatible with Ramp - Part #1089

UltraTech Ultra-Spill Decks® - P6 & P8 Models



P6 Deck

Available In 6-Drum And 8-Drum Models, Ultra-Spill Decks Are Perfect For Satellite Collection Of Hazardous Wastes Or Storage Of Virgin Chemicals

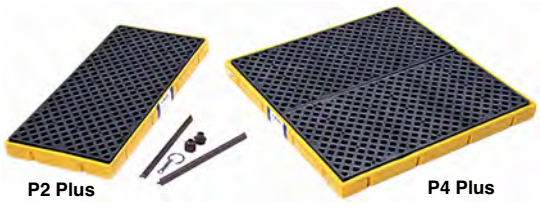
Features:
- One-piece, molded sump with elevated 2' x 4' black grates.
- Polyethylene grates feature slip resistant, "diamond plate" surface design.
- Deck holds up to 1,500 lbs. per drum UDL (uniformly distributed load).
- Designed for use with Ultra-Spill Deck Loading Ramp (Part# 1089).
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175, and UFC Spill Containment Regulations.

UltraTech Ultra-Inline Spill Decks® - P6 & P8 Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P6 (6-Drum)	74 1/4 x 50 x 5 1/4	9,000	66	86.0	1175	434.00
P8 (8-Drum)	98 1/2 x 50 x 5 1/4	12,000	75	110.0	1075	563.00

NOTE: Compatible with Ramp - Part #1089

UltraTech Ultra-Spill Decks® - Plus Models



P2 Plus

P4 Plus



Extra Rugged Spill Deck Plus Units Provide Containment For Heavy Equipment And Machinery

Features:
- 2- and 4-drum modules can be connected together with optional bulkhead fittings to increase overall sump capacity.
- A virtually unlimited number of configurations is available.

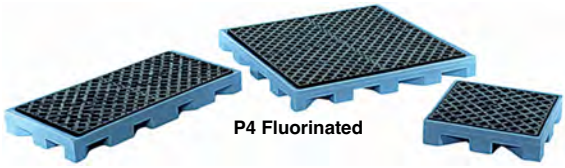
UltraTech Ultra-Spill Decks® - Plus Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P2 Plus (2-Drum)	54 1/2 x 27 1/4 x 4 1/4	10,000	17.5	56.0	2222	306.00
P4 Plus (4-Drum)	54 1/2 x 54 1/2 x 4 1/4	10,000	35	104.0	2223	475.00
Loading Ramp	37 x 26 1/2 x 41/4	1,000	-	-	U2353	408.00

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Spill Containment Systems

UltraTech Ultra-Spill Decks® - Fluorinated Models



P4 Fluorinated

P2 Fluorinated

P1 Fluorinated

Use Fluorinated Spill Decks With Chlorinated Solvents And Other Aggressive Chemicals That May Not Be Compatible With Standard Polyethylene

Certain chlorinated solvents are considered incompatible with standard polyethylene. However, a gas treatment process known as fluorination alters the surface of molded polyethylene products, making them compatible with these and many other aggressive chemicals. The light blue color indicates that the Spill Decks and grates have been fluorinated.

UltraTech Ultra-Spill Decks® - Fluorinated Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P1 Fluorinated	25 7/8 x 25 7/8 x 5 3/4	1,500	11	23.0	U1323	211.00
P2 Fluorinated	52 x 25 7/8 x 5 3/4	3,000	22	40.0	U1324	334.00
P4 Fluorinated	52 x 52 x 5 3/4	6,000	44	70.0	U1325	538.00
26" T-Strip, Fluorinated	-	-	-	1.0	U1431	7.00
Bulkhead Fitting, Fluorinated	–	-	-	1.0	U1473	12.00

UltraTech Ultra-Hard Tops®



P4 Hard Top

Outdoor Secondary Containment Storage Systems Keep The Elements Out While Providing Convenient Access To Drums

Features:

- Drums can be easily accessed with unique "gull wing" design.
- Drums and collection sump remain clean and dry - free of rain water, debris, and other contaminants.
- UV inhibitor in polyethylene resin resists degrading effects of sunlight, adding years to outdoor service life.
- Applications include storage of virgin chemicals, drum dispensing, hazardous waste collection, and storage of spill response materials.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.

UltraTech Ultra-Hard Tops®

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P2 (2-Drum) Without Drain	57 x 30 1/2 x 63 1/2	3,000	66	173.0	U1082	837.00
P2 (2-Drum) With Drain	57 x 30 1/2 x 63 1/2	3,000	66	173.0	U1083	852.00
P4 (4-Drum) Without Drain	57 x 54 x 64 1/2	6,000	66	226.0	U1080	1230.00
P4 (4-Drum) With Drain	57 x 54 x 64 1/2	6,000	66	226.0	U1081	1246.00

NOTE: Compatible with Ramp - Part #0678

UltraTech Ultra-Hard Tops® - P1 Plus Models





The Only 1-Drum, Lockable Outdoor Containment Unit Available

Features:

- Convenient "roll-top" cover slides up and out of the way - allows quick access to drum pumps and funnels.
- 100% polyethylene construction will not rust or corrode.
- Safe Handling – can be moved by forklift under the "shoulder" area or wheeled with the optional dolly.
- Meets SPCC and EPA Container Storage Regulation 40 CFR 264.175.
- Helps meet Stormwater Management Regulations - NPDES, 40 CFR 122.26 (1999).

UltraTech Ultra-Hard Tops® - P1 Plus Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P1 Plus (1-Drum) Without Drain	36 x 36 x 66	800	70	75.0	9640	434.00
P1 Plus (1-Drum) With Drain	36 x 36 x 66	800	70	75.0	9641	450.00
Steel Dolly	26 1/2 x 26 1/2 x 5	700	-	35.0	U0417	176.00

UltraTech Ultra-Hard Tops® - P2 & P4 Plus Models



P2 Plus

Store Hazardous Drums Safely Outdoors With Pumps And Funnels In Place

Features:

- Tall 23 3/4" head space easily accommodates rotary drum pumps and large conical funnels.
- Low profile (8 3/4") containment pallet positions drum-tops at a safe, convenient level to pour wastes into funnels or to use drum pumps.
- Unique "dual closure" offers significant ergonomic and convenience benefits - drums are easily accessed from either side.
- Roll-top covers can be easily lifted from waist height to access drum tops - no need to reach near ground level.
- Forkliftable, lockable, 100% polyethylene construction will not rust or corrode.
- Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.
- Helps meet Stormwater Management Regulations — NPDES, 40 CFR 122.26 (1999).



UltraTech Ultra-Hard Tops® - P2 & P4 Plus Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P2 Plus (2-Drum) Without Drain	67 1/4 x 41 1/4 x 74	4,500	66	260.0	U9612	1079.00
P2 Plus (2-Drum) With Drain	67 1/4 x 41 1/4 x 74	4,500	66	260.0	U9613	1095.00
P4 Plus (4-Drum) Without Drain	64 1/2 x 62 x 79	9,000	75	440.0	9636	1685.00
P4 Plus (4-Drum) With Drain	64 1/2 x 62 x 79	9,000	75	440.0	9637	1701.00

NOTE: Compatible with Ramp - Part #0676

UltraTech Ultra-Hard Tops® - Plus Models



P8 Plus



Safely Store Multiple Drums Outdoors

Features:

- Available in 8, 12, 16, and 20-drum models. Extender Kits are available to expand capacity beyond 20-drums.
- All polyethylene construction - offers excellent chemical resistance, will not rust or corrode.
- Separate, lockable compartments feature a unique "2-way" entry system - allows quick access to all four (4) drums.
- Roll-top covers can be easily lifted from waist height to access drum tops. Swing-out doors provide safety and convenience for loading or unloading drums.
- Low-profile (8-3/4" height) containment pallet positions drum-tops at a safe, convenient level.
- Rugged, 9,000 lb. uniformly distributed load (UDL) capacity per compartment allows safe storage of IBC tanks as well as drums.
- Units ship partially unassembled for freight savings.
- Multiple "4-drum compartments" offer flexible usage for a broad range of operations. Internal walls and separate sumps allow materials to be segregated.
- Use optional Ramp (Part# 0676) for easier drum handling - stores inside Hard Top when not in use.
- Meets EPA Container Storage Regulation 40 CFR 264.175 and helps comply with NPDES, 40 CFR 122.26 (1999). Considered a Stormwater Management "Best Management Practice" product (BMP). Also meets SPCC Regulations for secondary containment of hydrocarbons.

UltraTech Ultra-Hard Tops® - P2 & P4 Plus Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
P8 Plus (8-Drum) Without Drain	126 x 62 x 79	9,000	75	815.0	9650	3475.00
P8 Plus (8-Drum) With Drain	126 x 62 x 79	9,000	75	815.0	9651	3490.00
P12 Plus (12-Drum) Without Drain	188 x 62 x 79	9,000	75	1,190.0	9652	4953.00
P12 Plus (12-Drum) With Drain	188 x 62 x 79	9,000	75	1,190.0	9653	4968.00
P16 Plus (16-Drum) Without Drain	250 x 62 x 79	9,000	75	1,565.0	9654	6554.00
P16 Plus (16-Drum) With Drain	250 x 62 x 79	9,000	75	1,565.0	9655	6569.00
P20 Plus (20-Drum) Without Drain	312 x 62 x 79	9,000	75	1,940.0	9656	8166.00
P20 Plus (20-Drum) With Drain	312 x 62 x 79	9,000	75	1,940.0	9657	8181.00
4-Drum Extender Kit Without Drain	60 x 66 x 79	9,000	75	375.0	9658	1686.00
4-Drum Extender Kit With Drain	60 x 66 x 79	9,000	75	375.0	9659	1702.00

NOTE: Compatible with Ramp - Part #0676

UltraTech Ultra-IBC Spill Pallet® - Plus Models



Economical And Portable Containment For IBCs

Features:
- Low profile, 28" overall height - allows safe and convenient IBC tank handling and dispensing.
- All polyethylene construction - offers excellent chemical resistance and will not rust or corrode.
- Forkliftable - allows convenient positioning to desired locations.
- Low-cost design with value-added features and benefits.
- Large 52" x 52" deck allows safe and convenient placement of IBC tanks.
- Small footprint - 62" x 62" unit requires minimal floor space.
- Available with optional Bucket Shelf (Part# 1160) - catches leaks or spills during dispensing.
- 365-gallon sump capacity meets SPCC and EPA Container Storage Regulations.

UltraTech Ultra-IBC Spill Pallet® - Plus Models

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
IBC Plus Without Drain	62 x 62 x 28	8,500	365	324.0	U1157	1148.00
IBC Plus With Drain	62 x 62 x 28	8,500	365	280.0	U1158	1166.00
Ultra-Bucket Shelf	19 1/2 x 16 x 14 1/2	-	-	10.0	U1160	88.00
Pullover Cover	-	-	-	-	U1159	261.00

UltraTech Ultra-IBC Spill Pallet®





Double Stack IBC Tanks And Save Valuable Floor Space

Features:
- 16,000 lb. weight capacity accommodates up to two full IBCs.
- 100% polyethylene construction has no metal parts - rust and corrosion are things of the past.
- All grating and inner components are easily removed for quick and easy clean-up.
- 400-gallon sump capacity meets SPCC, and EPA Container Storage Regulation, 40 CFR 264.175.

UltraTech Ultra-IBC Spill Pallet®

Description	Dimensions WDH (in.)	Usable Grating Surface (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
IBC Without Drain	58 3/4 x 58 3/4 x 33	52 x 52	16,000	400	444.0	1057	1593.00
IBC With Drain	58 3/4 x 58 3/4 x 33	52 x 52	16,000	400	444.0	1058	1612.00

UltraTech Ultra-Twin IBC Spill Pallet®



Twin IBC - 2 Bucket Shelves

Save Money - Store Two IBC Tanks Side-By-Side

Features:
- Use for intermediate bulk containers (IBCs), drums, or other large vessels. (All materials stored must be chemically compatible.)
- Available with optional Bucket Shelf for either or both sides - catches small leaks or spills during dispensing.
- One-piece, molded sump holds 535 gallons - meets EPA Containment and SPCC Regulations for two IBC tanks.

UltraTech Ultra-Twin IBC Spill Pallet®

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
Twin IBC Without Drain	124 1/2 x 61 5/8 x 22	8,000	535	451.0	U1140	1789.00
Twin IBC With Drain	124 1/2 x 61 5/8 x 22	8,000	535	451.0	U1144	1806.00
Twin IBC Without Drain. 1 Right Side Bucket Shelf	124 1/2 x 61 5/8 x 22	8,000	535	461.0	U1141	1875.00
Twin IBC With Drain . 1 Right Side Bucket Shelf	124 1/2 x 61 5/8 x 22	8,000	535	461.0	U1145	1891.00
Twin IBC Without Drain. 1 Left Side Bucket Shelf	124 1/2 x 61 5/8 x 22	8,000	535	461.0	U1142	1875.00
Twin IBC With Drain . 1 Left Side Bucket Shelf	124 1/2 x 61 5/8 x 22	8,000	535	461.0	U1146	1891.00
Twin IBC Without Drain. 2 Bucket Shelves	124 1/2 x 61 5/8 x 22	8,000	535	471.0	U1143	1971.00
Twin IBC With Drain . 2 Bucket Shelves	124 1/2 x 61 5/8 x 22	8,000	535	471.0	U1147	1988.00

NOTE: Compatible with Bucket Shelf - Part #1160

Spill Containment Systems

UltraTech Ultra-IBC Hard Top®



IBC Hard Top

Ultra-Twin IBC Hard Top also available for outdoor storage of two IBC tanks.

Comply With Regulations While Storing IBC Tanks Outdoors

Features:
- Upper roll-top door and lower swing-out doors combine to allow easy and convenient access to IBC.
- Safely stores an IBC tank with maximum dimensions of 52" x 52" x 61".
- Low profile (28" height), 365-gallon containment sump allows safe material handling and dispensing.
- Forkliftable, lockable, all-polyethylene design will not rust or corrode.
- Helps meet Stormwater Management Regulations - NPDES, 40 CFR 122.26 (1999).
- Meets SPCC and EPA Container Storage Regulation 40 CFR 264.175.

UltraTech Ultra-IBC Hard Top®

Description	Dimensions WDH (in.)	Uniformly Distributed Load (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
IBC Hard Top Without Drain	64 1/2 x 62 x 96	8,500	365	525.0	U1162	2473.00
IBC Hard Top With Drain	64 1/2 x 62 x 96	8,500	365	525.0	U1161	2492.00
Twin IBC Hard Top Without Drain	128 x 67 x 96	8,000	535	1,067.0	U1148	4146.00
Twin IBC Hard Top With Drain	128 x 67 x 96	8,000	535	1,067.0	U1149	4163.00

NOTE: Twin IBC Hard Top is compatible with Bucket Shelf - Part #1160

UltraTech Ultra-Drum Truck®



Drum Handling, Dispensing, And Containment In One Unit

Features:
- Rugged polyethylene construction offers excellent chemical resistance.
- Unlike alternative products, the open containment sump does not require spills to flow inside the double walls to meet EPA regulations - easy to clean; eliminates residue concerns as related to compatibility.
- Can be used with 55- or 30-gallon drums - nylon strap keeps drums secure.
- Ergonomically designed for safe and easy handling.
- Large pneumatic wheels roll easily over shop and factory floors.
- Large containment sump (66 gallons) meets SPCC and EPA Containment Regulations.

UltraTech Ultra-Drum Truck®

Dimensions (in.)	Weight Capacity (Lbs.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
32 x 72 1/4 x 27	600	66	118.0	U1310	781.00

UltraTech Ultra-Rack Containment Trays®



Three Tray System



Capture Leaks and Spills Underneath Pallet Racking

Features:
- Low-profile (2 3/4") slides easily under pallet racking and shelving.
- Small leaks and spills from palletized contents above are captured - keeping floors clean and free from slip hazards.
- Black, all-polyethylene construction provides excellent chemical compatibility and corrosion resistance.
- Multiple tray systems available to fit any size rack or shelf. Additional trays and/or connectors may be added for larger applications or revised configurations.

UltraTech Ultra-Rack Containment Trays®

Description	Dimensions WDH (in.)	Containment Capacity (gal.)	Weight (Lbs.)	Mfg Part #	Price $
Single Tray	23½ x 44 x 2¾	8	8.0	U2370	57.00
Two Tray System	48 x 44 x 2¾	16	17.0	U2371	133.00
Three Tray System	72 x 44 x 2¾	24	27.0	U2372	203.00
Optional Connector	-	-	3.0	U2373	22.00

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Fiberglass Vertical Tanks

Fiberglass Vertical Flat Bottom & Leg Tanks



Top and Bottom Options:
- Open top
- Dome top
- Flat top
- Conical top
- Hinged or Bolted top
- Flat bottom with internally sloped bottom
- Double wall available

Horizontal Tanks are also available.

Contact Sales Office
for more details.
Price on Application

Flange Options:
Flanges are hand-laid, one-piece construction using the same resin as the tank liner. Flanges are available in sizes from 1”- 24” and will be permanently bonded to the tank wall at any location on the shell or heads so to fit for the job needed.
- Flanges: Designed for light to moderate use. Can be used on any tank, depending on placement and type of operation. We recommend that all flanges 6” and smaller have some type of enforced gusset.
- Blade Gussets: Reinforced with fiberglass or steel plates running the length of the flange extension. Blade gussets are recommended for moderate-to-heavy applications.
- Conical Gussets: Reinforced with a fiberglass molded cone that is permanently bonded to the tank wall. Access holes within cone allow for inspection/ access to the flange without loss of strength. Conical gussets are recommended for heavy-to-severe applications.



Tanks can be manufactured with:
- Open top
- Dome top
- Flat top
- Conical top
- Hinged or Bolted top
- Cone bottom
- Double wall available

Support Types:
Selection is based on vessel requirement including wind and seismic exposure
- Skirt
- Legs

The smaller tanks are built with angle iron legs the larger tanks have I-beam legs.

Horizontal Tanks are also available.

Contact Sales Office for more details.
Price on Application

Flange Options:
Flanges are hand-laid, one-piece construction using the same resin as the tank liner. Flanges are available in sizes from 1”- 24” and will be permanently bonded to the tank wall at any location on the shell or heads so to fit for the job needed.
- Flanges: Designed for light to moderate use. Can be used on any tank, depending on placement and type of operation. We recommend that all flanges 6” and smaller have some type of enforced gusset.
- Blade Gussets: Reinforced with fiberglass or steel plates running the length of the flange extension. Blade gussets are recommended for moderate-to-heavy applications.
- Conical Gussets: Reinforced with a fiberglass molded cone that is permanently bonded to the tank wall. Access holes within cone allow for inspection/ access to the flange without loss of strength. Conical gussets are recommended for heavy-to-severe applications.

Notes:
- Flat bottoms with / without internal slope
- Open top, dished, dome or conical top
- Weight is approximate, due to fitting schedule
- Weight is for an empty tank
- Appurtenances and fittings available
- For a hinged, bolted or slotted top, consult sales office
- For double wall tanks, consult sales office
- For resins used in production, consult sales office

Plastic Tanks

Ace Roto-Mold Flat Bottom Vertical Storage Tanks



Features

- Vertical tanks are free standing with a flat bottom for indoor or outdoor installations.
- Tanks are manufactured from medium- or high-density polyethylene with U.V. inhibitors.
- Tanks are available in 1.7, 1.9, and 2.0 Specific Gravity
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Syphon tube included with tanks 300 gallon or greater.
- All tanks include a PP/EPDM Bulkhead fitting at bottom of tank as standard
- Bulkhead fittings are available in other materials, such as PVC, PVDF, and SS.

VERTICAL - DOME TOP

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Lid	PP Bulkhead Fitting	Price
VT0010-12	10	2.0	9	12 x 25	8”	3/4”	$68.72
VT0020-16	20	2.0	13	16 x 28	8”	3/4”	$97.48
VT0025-18	25	2.0	12	18 x 30	5”	3/4”	$81.38
VT0040-18	40	2.0	17	18 x 43	5”	3/4”	$100.67
VT0055-20	55	2.0	22	20 x 47	5”	1”	$126.63
VT0065-23	65	2.0	25	23 x 42	5”	1”	$145.24
VT0065-23-1.9	65	1.9	27	23 x 42	5”	1”	$163.26
VT0110-32	110	2.0	40	32 x 41	5”	2” Top	$211.98
VT0110-32-1.9	110	1.9	42	32 x 41	5”	2” Top	$246.37
VT0135-23	135	2.0	47	23 x 82	16”	1”	$257.17
VT0135-23-1.9	135	1.9	47	23 x 82	16”	1”	$288.54
VT0300-42	300	2.0	72	42 x 55	8”	2”	$384.35
VT0300-42-1.9	300	1.9	74	42 x 55	8”	2”	$433.75
VT0405-52	405	2.0	90	52 x 48	8”	2”	$460.39
VT0405-52-1.9	405	1.9	92	52 x 48	8”	2”	$521.79
VT0425-42	425	2.0	100	42 x 75	8”	2”	$495.11
VT0425-42-1.9	425	1.9	102	42 x 75	8”	2”	$563.19
VT0505-46	505	2.0	118	46 x 80	16”	2”	$575.30
VT0505-46-1.9	505	1.9	120	46 x 80	16”	2”	$655.39
VT0550-52	550	2.0	116	52 x 66	8”	2”	$562.06
VT0550-52-1.9	550	1.9	118	52 x 66	8”	2”	$640.82
VT0600-46	600	2.0	130	46 x 91	16”	2”	$629.97
VT0600-46-1.9	600	1.9	132	46 X 91	16”	2”	$718.07
VT0625-64	625	2.0	100	64 x 50	8”	2”	$508.86
VT0625-64-1.9	625	1.9	102	64 x 50	8”	2”	$576.94
VT0800-46	800	1.7	175	46 x 118	16”	2”	$817.17
VT0800-46-1.9	800	1.9	177	46 x 118	16”	2”	$935.31

Larger capacity tanks from 900 to 3000 Gallons are continued on the next page. Syphon tube included with tanks 300 gallons or greater.

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Plastic Tanks

Ace Roto-Mold Flat Bottom Vertical Storage Tanks

continued from previous page



Features

- Vertical tanks are free standing with a flat bottom for indoor or outdoor installations.
- Tanks are manufactured from medium- or high-density polyethylene with U.V. inhibitors.
- Tanks are available in 1.7, 1.9, and 2.0 Specific Gravity
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Syphon tube included with tanks 300 gallon or greater.
- All tanks include a PP/EPDM Bulkhead fitting at bottom of tank as standard
- Bulkhead fittings are available in other materials, such as PVC, PVDF, and SS.

VERTICAL - DOME TOP

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Lid	PP Bulkhead Fitting	Price
VT0900-46	900	1.7	220	46 x 132	16”	2”	$979.65
VT0900-46-1.9	900	1.9	222	46 x 132	16”	2”	$1127.83
VT1000-64	1000	1.7	250	64 x 81	16”	2”	$1085.67
VT1000-64-1.9	1000	1.9	252	64 x 81	16”	2”	$1253.87
VT1050-86	1050	1.7	190	86 x 54	16”	2”	$869.54
VT1050-86-1.9	1050	1.9	192	86 x 54	16”	2”	$997.68
VT1200-64	1200	1.7	275	64 x 97	16”	2”	$1194.07
VT1200-64-1.9	1200	1.9	277	64 x 97	16”	2”	$1378.95
VT1350-86	1350	1.7	228	86 x 65	16”	2”	$1021.60
VT1350-86-1.9	1350	1.9	230	86 x 65	16”	2”	$1175.11
VT1500-64	1500	1.7	335	64 x 115	16”	2”	$1436.09
VT1500-64-1.9	1500	1.9	337	64 x 115	16”	2”	$1661.02
VT1500-86	1500	1.7	250	86 x 69	16”	2”	$1081.44
VT1500-86-1.9	1500	1.9	252	86 x 69	16”	2”	$1249.63
VT1525-64	1525	1.7	350	64 x 122	16”	2”	$1500.07
VT1525-64-1.9	1525	1.9	352	64 x 122	16”	2”	$1735.01
VT1650-86	1650	1.7	276	86 x 74	16”	2”	$1159.57
VT1650-86-1.9	1650	1.9	280	86 x 74	16”	2”	$1346.46
VT2000-64	2000	1.7	465	64 x 156	16”	2”	$1938.34
VT2000-64-1.9	2000	1.9	467	64 x 156	16”	2”	$2250.03
VT2000-90	2000	1.7	375	90 x 84	16”	2”	$1567.96
VT2000-90-1.9	2000	1.9	377	90 x 84	16”	2”	$1819.58
VT2050-86	2050	1.7	402	86 x 93	16”	2”	$1651.12
VT2050-86-1.9	2050	1.9	402	86 x 93	16”	2”	$1919.43
VT2150-102	2150	1.7	417	102 x 71	16”	2”	$1781.69
VT2150-102-1.9	2150	1.9	417	102 x 71	16”	2”	$2060.02
VT2500-90	2500	1.7	420	90 x 103	16”	2”	$1800.04
VT2500-90-1.9	2500	1.9	422	90 X 103	16”	2”	$2081.70
VT3000-90	3000	1.7	550	90 X 120	16”	2”	$2176.03
VT3000-90-1.9	3000	1.9	552	90 x 120	16”	2”	$2544.46

Larger capacity tanks from 3100 to 12,500 Gallons are continued on the next page. Syphon tube included with tanks 300 gallons or greater.

Plastic Tanks

Ace Roto-Mold Flat Bottom Vertical Storage Tanks

continued from previous page



Features

- Vertical tanks are free standing with a flat bottom for indoor or outdoor installations.
- Tanks are manufactured from medium-or high-density polyethylene with U.V. inhibitors.
- Tanks are available in 1.7, 1.9, and 2.0 Specific Gravity
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Syphon tube included with tanks 300 gallon or greater.
- All tanks include a PP/EPDM Bulkhead fitting at bottom of tank as standard.
- Bulkhead fittings are available in other materials, such as PVC, PVDF, and SS.

VERTICAL - DOME TOP

Part #	Gal. Cap.	Specific Gravity	Weight /lbs.	Dia. x Height	Lid	PP Bulkhead Fitting	Price
VT3100-102	3100	1.7	550	102 x 103	16”	2”	$2324.70
VT3100-102-1.9	3100	1.9	550	102 x 103	16”	2”	$2693.13
VT3400-102	3400	1.7	585	102 x 107	16”	2”	$2469.51
VT3400-102-1.9	3400	1.9	585	102 x 107	16”	2”	$2861.29
VT4000-96*	4000	1.7	900	96 x 140	16”	2”	$3547.81
VT4000-96-1.9*	4000	1.9	900	96 x 140	16”	2”	$4149.85
VT4200-96*	4200	1.7	950	96 x 148	16”	2”	$3730.88
VT4200-96-1.9*	4200	1.9	950	96 x 148	16”	2”	$4366.28
VT5000-102+*	5000	1.7	1302	102 x 156	16”	2”	$5078.31
VT5000-102-1.9+*	5000	1.9	1302	102 x 156	16”	2”	$5947.32
VT5150-102+*	5150	1.7	1350	102 x 161	16”	2”	$5153.94
VT5150-102-1.9+*	5150	1.9	1350	102 x 161	16”	2”	$6056.32
VT6250-102+*	6250	1.7	1550	102 x 194	16”	2”	$5788.89
VT6250-102-1.9+*	6250	1.9	1550	102 x 194	16”	2”	$6824.76
VT6500-120+*	6500	1.7	1502	120 x 152	16”	2”	$5819.88
VT6500-120-1.9+*	6500	1.9	1502	120 x 152	16”	2”	$6822.38
VT7000-142+*	7000	1.7	1750	142 x 125	16”	2”	$6381.92
VT7000-142-1.9+*	7000	1.9	1750	142 x 125	16”	2”	$7551.28
VT7800-120+*	7800	1.7	1900	120 x 176	16”	2”	$7340.38
VT7800-120-1.9+*	7800	1.9	1900	120 x 176	16”	2”	$8609.85
VT8000-120+*	8000	1.7	1930	120 x 180	16”	2”	$7452.54
VT8000-120-1.9+*	8000	1.9	1930	120 x 180	16”	2”	$8742.04
VT9150-120+*	9150	1.7	2200	120 x 203	16”	2”	$8503.55
VT9150-120-1.9+*	9150	1.9	2200	120 x 203	16”	2”	$9973.25
VT9500-120+*	9500	1.7	2352	120 x 213	16”	2”	$9026.12
VT9500-120-1.9+*	9500	1.9	2352	120 x 213	16”	2”	$10595.94
VT10500-2500+*	10500	1.6	2500	142 x 177	16”	2”	$9813.82
VT10500-2500-1.9+*	10500	1.9	2502	142 X 177	16”	2”	$11483.75
VT10500-2800+*	10500	1.8	2800	142 x 177	16”	2”	$10838.90
VT10500-2800-1.9+*	10500	1.9	2802	142 x 177	16”	2”	$11463.09
VT12500-142*	12500	1.7	3402	142 x 208	16”	3”	$13166.16
VT12500-142-1.9+*	12500	1.9	3402	142 x 208	16”	3”	$15436.79

* indicates heavy duty fitting + indicates available with 3” fitting Syphon tube included with tanks 300 gallons or greater.

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Plastic Tanks

Ace Roto-Mold Flat Bottom Vertical Storage Tanks



Features

- Vertical tanks are free standing with a flat bottom for indoor or outdoor installations.
- Tanks are manufactured from medium- or high-density polyethylene with U.V. inhibitors.
- Tanks are available in 1.7, 1.9, and 2.0 Specific Gravity
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Syphon tube included with tanks 300 gallon or greater.
- All tanks include a PP/EPDM Bulkhead fitting at bottom of tank as standard
- Bulkhead fittings are available in other materials, such as PVC, PVDF, and SS.
- Additional flats for fitting installation or mounting.

VERTICAL - FLAT TOP

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Lid	PP Bulkhead Fitting	Price
VT0055-23	55	2.0	26	23 x 38	8”	1”	$141.94
VT0075-23	75	2.0	28	23 x 50	7”	1”	$156.36
VT0075-23-1.9	75	1.9	30	23 x 50	7”	1”	$176.39
VT0100-23	100	2.0	36	23 x 64	8”	1”	$203.54
VT0100-23-1.9	100	1.9	36	23 x 64	8”	1”	$220.94
VT0100-28	100	2.0	36	28 x 45	7”	1”	$209.64
VT0100-28-1.9	100	1.9	38	28 x 45	7”	1”	$235.00
VT0105-23	105	2.0	38	23 x 65	7”	1”	$216.90
VT0105-23-1.9	105	1.9	40	23 x 65	7”	1”	$243.60
VT0130-32	130	2.0	47	32 x 46	8”	1”	$254.40
VT0130-32-1.9	130	1.9	47	32 x 46	8”	1”	$285.77
VT0135-28	135	2.0	45	28 x 59	8”	1”	$243.15
VT0135-28-1.9	135	1.9	47	28 x 59	8”	1”	$274.52
VT0145-36	145	2.0	52	36 x 40	8”	1”	$256.59
VT0145-36-1.9	145	1.9	52	36 x 40	8”	1”	$282.82
VT0160-28	160	2.0	56	28 x 68	8”	1”	$294.30
VT0160-28-1.9	160	1.9	58	28 x 68	8”	1”	$333.01
VT0175-31	175	2.0	54	31 x 61	8”	1-1/2”	$269.64
VT0175-31-1.9	175	1.9	56	31 x 61	8”	1-1/2”	$307.02
VT0180-40	180	2.0	48	40 x 45	5”	2” Top(molded in)	$264.86
VT0180-40-1.9	180	1.9	50	40 x 45	5”	2” Top(molded in)	$298.24
VT0200-36	200	2.0	58	36 x 53	8”	1-1/2”	$266.61
VT0200-36-1.9	200	1.9	58	36 x 53	8”	1-1/2”	$296.42
VT0210-40	210	2.0	56	40 x 49	5”	2” Top(molded in)	$290.90
VT0210-40-1.9	210	1.9	58	40 x 49	5”	2” Top(molded in)	$329.61
VT0225-31	225	2.0	65	31 x 76	8”	1-1/2”	$359.05
VT0225-31-1.9	225	1.9	67	31 x 76	8”	1-1/2”	$403.77

Larger capacity tanks from 250 to 850 Gallons are continued on the next page. Syphon tube included with tanks 300 gallons or greater.

Plastic Tanks

Ace Roto-Mold Flat Bottom Vertical Storage Tanks



Features

- Vertical tanks are free standing with a flat bottom for indoor or outdoor installations.
- Tanks are manufactured from medium- or high-density polyethylene with U.V. inhibitors.
- Tanks are available in 1.7, 1.9, and 2.0 Specific Gravity
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Syphon tube included with tanks 300 gallon or greater.
- All tanks include a PP/EPDM Bulkhead fitting at bottom of tank as standard
- Bulkhead fittings are available in other materials, such as PVC, PVDF, and SS.
- Additional flats for fitting installation or mounting.

VERTICAL - FLAT TOP

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Lid	PP Bulkhead Fitting	Price
VT0250-36	250	2.0	76	36 x 62	8”	1-1/2”	$359.47
VT0250-36-1.9	250	1.9	76	36 x 62	8”	1-1/2”	$398.25
VT0265-31	265	2.0	74	31 x 88	8”	1-1/2”	$393.34
VT0265-31-1.9	265	1.9	76	31 x 88	8”	1-1/2”	$444.06
VT0295-42	295	2.0	74	42 x 55	16”	2”	$396.01
VT0295-42-1.9	295	1.9	74	42 x 55	16”	2”	$445.40
VT0300-35	300	2.0	86	35 x 81	8”	2”	$434.31
VT0300-35-1.9	300	1.9	88	35 x 81	8”	2”	$493.04
VT0325-36	325	2.0	92	36 x 81	8”	2”	$424.37
VT0325-36-1.9	325	1.9	92	36 x 81	8”	2”	$471.63
VT0420-42	420	2.0	102	42 x 75	16”	2”	$496.19
VT0420-42-1.9	420	1.9	102	42 x 75	16”	2”	$564.27
VT0500-46	500	2.0	118	46 x 77	8”	2”	$564.42
VT0500-46-1.9	500	1.9	120	46 x 77	8”	2”	$644.51
VT0850-54	850	1.7	182	54 x 94	8”	2”	$834.99
VT0850-54-1.9	850	1.9	184	54 x 94	8”	2”	$957.80

Ace Roto-Mold Vertical Tank Stands



- Stands are designed to hold vertical bulk storage tanks or open top vertical bulk storage tanks.
- Tank stands are made of metal or polyethylene as indicated and the VT-ST052FF is foam-filled.

Part #	Capacity	Weight /lbs.	Dia. x Height	Price
VT28/31-STP	31-1/2” Poly Stand	35	39 x 24	$199.69
VT-ST052	52” Poly Stand	165	52 x 36	$638.03
VT-ST052FF	52” Foam Filled Poly Stand	201	52 x 36	$803.46
VT160-28ST	160 Gallon metal Stand	83	30 x 26	261.59
VT265-31ST	265 Gallon metal Stand	89	33 x 26	270.50
VT300-35ST	300 Gallon metal Stand	114	37 x 38	295.11

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Plastic Tanks

Ace Roto-Mold Free-Standing Horizontal Bulk Storage Tanks



Features:

- Free Standing Tanks are selected when transportable (non-D.O.T. regulated) containment is required for indoor or outdoor applications.
- Tanks are equipped with molded-in legs to support the tank and band locators for tie down.
- Tanks are manufactured from medium- or high-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.

FREE STANDING HORIZONTAL WITHOUT SUMP

Part #	Capacity	Weight /lbs.	Dimensions	Lid	Fitting	Price
FS0035-18	35 Gallon	16	18 x 34	5”	1”	$94.30
FS0065-24	65 Gallon	33	24 x 39	5”	1”	$181.18
FS0070-24	70 Gallon stackable (3 high)	35	24 x 39	5”	1”	$208.71
FS0125-32	125 Gallon	52	32 x 40	8”	1”	$295.80
FS0165-32	165 Gallon	70	32 x 54	8”	1”	$365.53
FS0225-38	225 Gallon	85	38 x 52	8”	2”	$422.04
FS0325-38	325 Gallon	106	38 x 72	12”	2”	$509.14
FS0335-44	335 Gallon	116	44 x 56	16”	2”	$513.93
FS0510-57	510 Gallon Elliptical	162	57 x 80 x 39	16”	2”	$729.62
FS0535-48	535 Gallon	160	48 x 78	16”	2”	$697.71
FS0735-48	735 Gallon (Hoops req.)	250	48 x 103	16”	2”	$1077.90
FS0925-DW	925 Gallon (Hoops req.)	290	62 x 81	16”	2”	$1226.05
FS1005-48	1005 Gallon (Hoops req.)	340	48 x 130	16”	2”	$1414.35
FS1010-48*	1010 Gallon (Hoops req.)	350	48 x 130	16”	2”	$1416.98
FS1035-78	1035 Gallon (Hoops req.) Elliptical	290	78 x 90 x 52	16”	2”	$1241.11
FM1065-56W	1065 Gallon (Hoops req.)	340	56 x 105	16”	2”	$1373.24
FM1300-DW	1300 Gallon (Hoops req.)	425	62 x 114	16”	2”	$1716.13
FS1610-78	1610 Gallon (Hoops req.) Elliptical	530	78 x 139 x 56	16”	2”	$2548.29
FS1750-62W	1750 Gallon (Hoops req.)	616	62 x 147	16”	2”	$2732.04
FS1800-2W	1800 Gal (Hoops req.) multi tanks(2)	580	62 x 149	16”	2”	$2383.31
FS2350-88	2350 Gallon (Hoops req.) Elliptical	920	88 x 146 x 63	16”	2”	$3877.55
FSD2350-88	2350 Gallon (Hoops req.)Elliptical Dump Valve	920	88 x 146 x 63	16”	2”	$3764.61
FS2600-2W	2600 Gal (Hoops req.) multi tanks(2)	850	62 x 212	16”	2”	$3563.42
FS2750-88	2750 Gallon (Hoops req.) Elliptical	1150	88 x 146 x 70	16”	2”	$4703.83
FSD2750-88	2750 Gallon (Hoops req.) Elliptical Dump Valve	1150	88 x 146 x 70	16”	2”	$4566.83
FS3200-2S*	3200 Gal (Hoops req.) multi tanks(2) Elliptical	1100	88 x 172 x 74	16”	2”	$4466.05
FS3250-88	3250 Gallon (Hoops req.) Elliptical	1208	88 x 146 x 79	16”	2”	$4938.14
FSD3250-88	3250 Gallon (Hoops req.) Elliptical Dump Valve	1208	88 x 146 x 79	16”	2”	$4794.31

*** skid required to support elevated legs** **“Donut” stabilizes sectional (multi) tanks.**
FMxxxx-S = Sump FSxxxx-W - Without Sump D = Domed End
When ordering, please indicate whether the fitting should be installed, not installed, or shipped loose. If installed, indicate preferred fitting location (END or SIDE are most common). Tanks must be fully supported for transport.

Hoops, Skids, and Bands are located on the next page.

Plastic Tanks

Ace Roto-Mold Free-Standing Horizontal Bulk Storage Tanks



Features:

- Free Standing Tanks are selected when transportable (non-D.O.T. regulated) containment is required for indoor or outdoor applications.
- Tanks are equipped with molded-in legs to support the tank and band locators for tie down.
- Tanks are manufactured from medium- or high-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.

FREE STANDING HORIZONTAL WITH SUMP*

Part #	Capacity	Weight /lbs.	Dimensions	Lid	Fitting	Price
FM0015-14S	15 Gallon	13	14 x 30	5”	-	$80.89
FM0025-16S	25 Gallon	15	16 x 34	5”	-	$85.29
FM0925-DS	925 Gallon (Hoops req.)	292	62 x 81	16”	2”	$1226.05
FM1065-56S	1065 Gallon (Hoops req.)	342	56 x 105	16”	2”	$1414.44
FM1300-DS	1300 Gallon (Hoops req.)	427	62 x 114	16”	2”	$1767.61
FM1610-78S	1610 Gallon (Hoops req.) Elliptical	530	78 x 139 x 58	16”	2”	$2548.29
FM1750-62S	1750 Gallon (Hoops req.)	616	62 x 147	16”	2”	$2732.04
FM1800-2S	1800 Gallon (Hoops req.)	580	62 x 149	16”	2”	$2383.31
FM2350-88S	2350 Gallon (Hoops req.) Elliptical	920	88 x 146 x 63	16”	2”	$3877.55
FM2600-2S	2600 Gallon (Hoops req.)	850	62 x 212	16”	2”	$3563.42
FM2750-88S	2750 Gallon (Hoops req.) Elliptical	1150	88 x 146 x 70	16”	2”	$4703.83
FM3250-88S	3250 Gallon (Hoops req.) Elliptical	1208	88 x 146 x 79	16”	2”	$4938.14

* skid required to support elevated legs “Donut” stabilizes sectional (multi) tanks.
FMxxxx-S = Sump FSxxxx-W - Without Sump D = Domed End
When ordering, please indicate whether the fitting should be installed, not installed, or shipped loose. If installed, indicate preferred fitting location (END or SIDE are most common). Tanks must be fully supported for transport.

All prices subject to change without notice.

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Plastic Tanks

Ace Roto-Mold Free-Standing Horizontal Bulk Storage Tanks
Hoops and Skids



Part #	Capacity	Hoop Qty.	Weight /lbs.	Dimensions	Price
FS048-HP	735 Gallon Hoops	Set of 3	22	1.315 OD	$247.39
FS062-HP-925	925 Gallon Hoops	Set of 2	22	1.66 OD	$204.82
FS062-HP-1300	1300 Gallon Hoops	Set of 3	22	1.66 OD	$307.19
FS062-HP-1750	1750 Gallon Hoops	Set of 4	22	1.66 OD	$448.51
FS062-HP-1800C	1800 Gallon Hoops	Set of 4	22	1.66 OD	$451.07
FS062-HP-2600C	2600 Gallon Hoops	Set of 6	22	1.66 OD	$646.82
FS0510-HP	510 Gallon Hoops	Set of 3	22	1.315 OD	$255.51
FS1005-HP	1005 Gallon Hoops	Set of 4	22	1.315 OD	$318.91
FS1010-HP	1010 Gallon Hoops	Set of 4	22	1.315 OD	$323.56
FS1035-HP	1035 Gallon Hoops	Set of 3	22	1.66 OD	$311.71
FS1065-HP	1065 Gallon Hoops	Set of 3	22	1.315 OD	$302.26
FS1065-BAF	1065 Gallon Optional Baffle Kit	-	38	-	$252.97
FS1610-HP	1610 Gallon Hoops	Set of 4	22	1.66 OD	$436.59
FS2350-HP	2350 Gallon Hoops	Set of 4	22	1.90 OD	$818.94
FS2750-HP	2750 Gallon Hoops	Set of 4	22	1.90 OD	$912.01
FS3200-HP	3200 Gallon Hoops	Set of 4	22	1.66 OD	$544.30
FS3250-HP	3250 Gallon Hoops	Set of 4	22	1.90 OD	$1046.15
FS3250-LAD	3250 Gallon Ladder	-	46	16 x 78	$288.67

Part #	Capacity	Hoop Qty.	Weight /lbs.	Dimensions	Price
FS0925-SK	925 Gallon Skid	-	280	62 x 64	$639.99
FS1010-SK	1010 Gallon Skid	-	409	53 x 115	$929.77
FM1065-SKS	1065 Gallon Skid w/sump	-	280	61 x 78	$764.48
FS1065-SKW	1065 Gallon Skid w/o sump	-	200	59 x 100	$513.25
FS1300-SK	1300 Gallon Skid	-	450	64 x 104	$921.81
FS1610-SKC	1610 Gallon Skid Center sump	-	490	83 x 107	$1311.23
FS1610-SKE	1610 Gallon Skid End sump	-	490	83 x 112	$1325.75
FS1750-SK	1750 Gallon Skid	-	604	64 x 138	$1365.44
FM1800-SKS	1800 Gallon Skid w/sump	-	580	64 x 125	$1209.24
FS1800-SKW	1800 Gallon Skid w/o sump	-	382	64 x 125	$926.10
FM2350/3250-SKC	2350/2750/3250 Gallon Skid Center sump	-	1060	88 x 141	$2747.95
FM2350/3250-SKE	2350/2750/3250 Gallon Skid End sump	-	1060	88 x 141	$2667.91
FS2350/3250-SK	2350/2750/3250 Gallon Skid w/o sump	-	1078	88 x 141	$2517.35
FS2600-SK	2600 Gallon Skid	-	900	64 x 201	$1553.35
FS3200-SK	3200 Gallon Skid	-	1163	90 x 168	$2503.59

Bands are located on the next page.

Ace Roto-Mold Free-Standing Horizontal Bulk Storage Tanks Bands

Powder-Coated Steel Bands w/J-Bolts



Heavy gauge steel bands available for 35 through 535 gallon tanks. Silver powder coated finish on all bands except 35 and 65 gallon tanks which are stainless steel. Bands feature reinforced holes for J-Bolts, allow additional mounting hole flexibility.

Part #	Capacity		Weight	Bands	Price
FS0035-SB*	35 Gallon Kit Silver	-	18 ga.	45 x 2	$21.99
FS0065-SB*	65 Gallon Kit Silver	-	18 ga.	61 x 2	$22.12
FS125/165-SBPJ	125/165 Gallon Kit Silver	-	14 ga.	80 x 3	$49.74
FS225/325-SBPJ	225/325 Gallon Kit Silver	-	14 ga.	95 x 3	$60.07
FS0335-SBPJ	335 Gallon Kit Silver	-	14 ga.	110 x 3	$69.56
FS0535-SBPJ	535 Gallon Kit Silver	-	14 ga.	120 x 3	$72.86

*** FS0035 and FS0065 bands are stainless steel. Stainless is available on other sizes as a special quote.**

7

Powder-Coated Formed Steel Bands w/Feet



Heavy gauge steel bands available for 35 through 535 gallon tanks. Silver powder coated finish on all bands except 35 and 65 gallon tanks which are stainless steel. Bands feature a formed foot for securely fastening tank to platform surface. Formed foot provides a more rigid connection for tank.

Part #	Capacity		Weight/lbs.	Dimensions	Price
FS0035-SBPF	35 Gallon Kit Silver	-	8	2 x 47.5	$37.57
FS0065-SBPF	65 Gallon Kit Silver	-	12	2 x 67	$48.48
FS125/165-SBPF	125/165 Gallon Kit Silver	-	16	2.5 x 84.5	$57.49
FS225/325-SBPF	225/325 Gallon Kit Silver	-	19	2.5 x 99.5	$67.84
FS0335-SBPF	335 Gallon Kit Silver	-	34	2.75 x 116.5	$85.19
FS0535-SBPF	535 Gallon Kit Silver	-	36	2.75 x 125	$91.00

Plastic Tanks

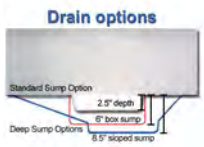
Ace Roto-Mold Elliptical Tanks

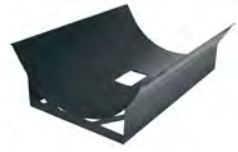


Features:

- Elliptical Tanks can be selected for stationary or transportable (non-D.O.T. regulated) applications both indoors and outdoors.
- The elliptical tank lowers the center of gravity to enhance stability and visibility.
- Standard 2-1/2" collection sump on the bottom for full drain out.
- An 8-1/2" deep sump option is available on five sizes.
- Sump is located directly under the lid on standard tanks, but a center sump option is available on tanks from 500 to 1250 gallons.
- Tanks require the bottom to be fully supported with a cradle for use.
- Tanks are manufactured from medium-density polyethylene with U.V. stabilizers and are designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.

Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
HE0200-41	200 Gallon	84	41 x 66 x 26	8"	3/4" & 1-1/4"	$410.29
HE0300-48	300 Gallon	114	48 x 70 x 30	8"	3/4" & 1-1/4"	$519.06
HE0400-57	400 Gallon	129	57 x 70 x 36	8"	3/4" & 1-1/4"	$576.61
HE0500-57	500 Gallon	167	57 x 82 x 36	8"	3/4" & 1-1/4"	$716.09
HED0500-57	500 Gal Deep (8.5") Sump	167	57 x 82 x 36	8"	3/4" & 1-1/4"	$716.09
HE0750-69	750 Gallon	222	69 x 89 x 42	16"	1-1/4" & 2"	$970.62
HED0750-69	750 Gal Deep (8.5") Sump	222	69 x 89 x 42	16"	1-1/4" & 2"	$970.62
HE0850-69	850 Gallon	248	69 x 89 x 46	16"	1-1/4" & 2"	$1100.99
HED0850-69	850 Gal Deep (8.5") Sump	248	69 x 89 x 46	16"	1-1/4" & 2"	$1100.99
HE1000-78	1000 Gallon	287	78 x 90 x 49	16"	1-1/4" & 2"	$1237.81
HED1000-78	1000 Gal Deep (8.5") Sump	287	78 x 90 x 49	16"	1-1/4" & 2"	$1237.81
HE1000-BAF	1000 Optional Baffle Kit	41	-	-	-	$313.42
HE1250-78+	1250 Gallon	402	78 x 92 x 60	16"	1-1/4" & 2"	$1734.71
HED1250-78+	1250 Gal Deep (8.5") Sump	402	78 x 92 x 60	16"	1-1/4" & 2"	$1734.71
HE1600-78+	1600 Gallon	439	78 x 138 x 49	16"	2"	$1832.88
HED1600-78+	1600 Gal Deep (6") Sump	439	78 x 138 x 49	16"	2"	$1832.88





Cradles for Elliptical Tanks

Part #	Capacity		Weight/lbs.	Bands	Price
HE0200-C	200 Gallon	-	140	3" x 61"	$381.54
HE0300-C	300 Gallon	-	155	3" x 74"	$435.75
HE0400-C	400 Gallon	-	190	4" x 88"	$508.93
HE0500-C	500 Gallon	-	202	4" x 88"	$587.89
HE0750-C	750 Gallon	-	451	4" x 91"	$953.78
HE0850-C	850 Gallon	-	453	4" x 99"	$959.25
HE1000-C	1000 Gallon	-	515	4" x 105"	$1303.20
HE1250-C	1250 Gallon	-	520	4" x 126"	$1358.12
HE1600-C	1600 Gallon	-	578	3.5" x 124"	$1900.61

Plastic Tanks

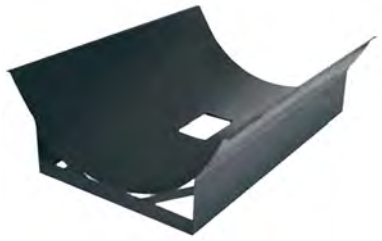
Ace Roto-Mold Round Horizontal Bulk Storage Tanks



Features:

- Round Horizontal Tanks are selected when transportable (non D.O.T. regulated) containment is required for indoor or outdoor applications.
- Tanks require skids and bands to support the round bottom.
- All tanks are equipped with drain out sumps.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.

Part #	Capacity	Weight /lbs.	Dia. x length	Lid	Fitting	Price
HZ0025-23	25 Gallon	16	23 x 22	5”	3/4”	$82.81
HZ0055-23	55 Gallon	25	23 x 38	5”	3/4”	$136.60
HZ0075-24	75 Gallon	33	24 x 47	5”	3/4”	$163.93
HZ0095-24	95 Gallon	37	24 x 56	5”	1-1/4”	$220.43
HZ0100-23	100 Gallon	40	23 x 64	5”	1-1/4”	$215.84
HZ0110-30	110 Gallon	42	30 x 44	8”	1-1/4”	$224.22
HZ0150-30	150 Gallon x 30	50	30 x 57	8”	3/4” & 1-1/4”	$275.71
HZ0150-32	150 Gallon x 32	50	32 x 52	8”	3/4” & 1-1/4”	$275.71
HZ0200-32	200 Gallon x 32	66	32 x 68	8”	3/4” & 1-1/4”	$327.78
HZ0200-38	200 Gallon x 38	66	38 x 51	8”	3/4” & 1-1/4”	$327.78
HZ0300-38	300 Gallon	90	38 x 76	8”	3/4” & 1-1/4”	$420.01
HZ0500-48	500 Gallon	124	48 x 79	8”	3/4” & 1-1/4”	$571.24



Cradles for Horizontal Tanks

Part #	Capacity		Weight/lbs.	Bands	Price
HZ0025-C*	25 Gallon	-	20	1.5” x 50”	$75.22
HZ0055-C*	55 Gallon	-	24	2” x 50.5”	$82.29
HZ0075-C	75 Gallon	-	36	2” x 51.5”	$135.68
HZ0095-C	95 Gallon	-	38	2” x 51.5”	$145.25
HZ0100-C	100 Gallon	-	40	1.75’ X 39.5”	$184.50
HZ0110-C	110 Gallon	-	40	2.75” x 60”	$164.94
HZ0150-C	150 Gallon x 32	-	56	2.75” x 56”	$230.23
HZ0153-C	150 Gallon x 30	-	57	2.75” x 55”	$236.11
HZ0232-C	200 Gallon x 32	-	110	2.75” x 57”	$334.86
HZ0238-C	200 Gallon x 38	-	85	2.75” x 65”	$318.81
HZ0300-C	300 Gallon	-	145	2.75” x 69.5”	$385.02
HZ0500-C	500 Gallon	-	170	2.75” x 86.5”	$469.10

* HZ0025-C and HZ0055-C have stainless steel bands.

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Plastic Tanks

Ace Roto-Mold Cone Bottom Bulk Storage Tanks



Features

- Cone Bottom Tanks are selected when a more complete drain out of stored chemical is required in indoor or outdoor installations.
- Tanks require stands to support the conical bottoms.
- Tanks are manufactured from medium-or high-density polyethylene with U.V. inhibitors.
- Tanks are available in 1.7, 1.9, and 2.0 Specific Gravity
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- All tanks include a PP/EPDM Bulkhead fitting at bottom of tank as standard
- Bulkhead fittings are available in other materials, such as PVC, PVDF, and SS.

Cone Bottom - Dome Top

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Height *	Lid	Fitting	Price
CB0300-42	300 - 45 deg	2.0	102	42 x 67	79”	16”	2”	$489.40
CB0300-42-1.9	300 - 45 deg	1.9	102	42 x 67	79”	16”	2”	$541.25
CB0800-86	800 - 15 deg	1.7	182	86 x 48	58”	16”	2”	$808.49
CB0800-86-1.9	800 - 15 deg	1.9	182	86 x 48	58”	16”	2”	$929.96
CB1000-64	1000 - 45 deg	1.7	252	64 x 98	112”	16”	2”	$1065.16
CB1000-64-1.9	1000 - 45 deg	1.9	252	64 x 98	112”	16”	2”	$1233.36
CB1000-90	1000 - 15 deg	1.7	212	90 x 54	64”	16”	2”	$928.64
CB1000-90-1.9	1000 - 15 deg	1.9	212	90 x 54	64”	16”	2”	$1070.13
CB1200-90	1200 - 15 deg	1.7	242	90 x 62	74”	16”	2”	$1035.41
CB1200-90-1.9	1200 - 15 deg	1.9	242	90 x 62	74”	16”	2”	$1196.93
CB1300-90	1300 - 15 deg	1.7	262	90 x 65	75”	16”	2”	$1113.15
CB1300-90-1.9	1300 - 15 deg	1.9	262	90 x 65	75”	16”	2”	$1288.02
CB1490-64	1490 - 45 deg	1.7	342	64 x 132	146”	16”	2”	$1416.74
CB1490-64-1.9	1490 - 45 deg	1.9	342	64 x 132	146”	16”	2”	$1645.01
CB1600-90	1600 - 30 deg	1.7	286	90 x 85	94”	16”	2”	$1235.80
CB1600-90-1.9	1600 - 30 deg	1.9	286	90 x 85	94”	16”	2”	$1426.69
CB1700-86	1700 - 15 deg	1.7	286	86 x 85	96”	16”	2”	$1228.09
CB1700-86-1.9	1700 - 15 deg	1.9	286	86 x 85	96”	16”	2”	$1418.98
CB2495-90	2495 - 30 deg	1.7	487	90 x 119	-	16”	2”	$1679.74
CB2495-90-1.9	2495 - 30 deg	1.9	487	90 x 119	-	16”	2”	$2004.79
CB2500-90	2500 - 15 deg	1.7	437	90 x 111	122”	16”	2”	$1624.24
CB2500-90-1.9	2500 - 15 deg	1.9	437	90 x 111	122”	16”	2”	$1915.91
CB2600-90	2600 - 30 deg	1.7	502	90 x 123	132”	16”	2”	$2014.20
CB2600-90-1.9	2600 - 30 deg	1.9	502	90 x 123	132”	16”	2”	$2349.25
CB2600-86	2600 - 45 deg	1.7	502	86 x 146	158”	16”	2”	$2014.20
CB2600-86-1.9	2600 - 45 deg	1.9	502	86 x 146	158”	16”	2”	$2349.25
CB3000-90	3000 - 15 deg	1.7	552	90 x 128	138”	16”	2”	$2147.98
CB3000-90-1.9	3000 - 15 deg	1.9	552	90 x 128	138”	16”	2”	$2516.41
CB3000-96	3000 - 30 deg	1.7	552	96 x 125	137”	16”	2”	$2147.98
CB3000-96-1.9	3000 - 30 deg	1.9	552	96 x 125	137”	16”	2”	$2516.41
CB4600-102	4600 - 15 deg	1.7	1202	102 x 155	166”	16”	2”	$4634.92
CB4600-102-1.9	4600 - 15 deg	1.9	1202	102 x 155	166”	16”	2”	$5437.18
CB4900-102	4900 - 15 deg	1.7	1302	102 x 159	170”	16”	2”	$5002.33
CB4900-102-1.9	4900 - 15 deg	1.9	1302	102 x 159	170”	16”	2”	$5871.34
CB6900-122+	6900 - 15 deg	1.7	1702	122 x 168	178”	16”	2”	$6278.60
CB6900-122-1.9+	6900 - 15 deg	1.9	1702	122 x 168	178”	16”	2”	$7414.58
CB8250-122+	8250 - 15 deg	1.7	2102	122 x 195	206”	16”	2”	$7837.96
CB8250-122-1.9+	8250 - 15 deg	1.9	2102	122 x 195	206”	16”	2”	$9240.92

+ indicates available with 3” fitting * Overall Height (including stand)

Plastic Tanks

Ace Roto-Mold Cone Bottom Bulk Storage Tanks



Features

- Cone Bottom Tanks are selected when a more complete drain out of stored chemical is required in indoor or outdoor installations.
- Tanks require stands to support the conical bottoms.
- Tanks are manufactured from medium-or high-density polyethylene with U.V. inhibitors.
- Tanks are available in 1.7, 1.9, and 2.0 Specific Gravity
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- All tanks include a PP/EPDM Bulkhead fitting at bottom of tank as standard
- Bulkhead fittings are available in other materials, such as PVC, PVDF, and SS.
- Additional flats for fitting installation or mounting.

Cone Bottom - Flat Top

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Height*	Lid	Fitting	Price
CB0055-23	55 - 15 deg	2.0	26	23 x 36	52”	8”	1-1/2”	$146.62
CB0100-23	100 - 15 deg	2.0	36	23 x 62	78”	8”	1-1/2”	$208.22
CB0100-23-1.9	100 - 15 deg	1.9	36	23 x 62	78”	8”	1-1/2”	$232.25
CB0145-36	145 - 15 deg	2.0	52	36 x 43	56”	8”	2”	$259.88
CB0146-36-1.9	145 - 15 deg	1.9	52	36 x 43	56”	8”	2”	$294.59
CB0150-36	150 - 45 deg	2.0	63	36 x 51	63”	12”	2”	$320.36
CB0150-36-1.9	150 - 45 deg	1.9	63	36 x 51	63”	12”	2”	$362.41
CB0200-36	200 - 15 deg	2.0	58	36 x 55	68”	8”	2”	$266.61
CB0200-36-1.9	200 - 15 deg	1.9	58	36 x 55	68”	8”	2”	$305.32
CB0200-42	200 - 45 deg	2.0	77	42 x 55	65”	12”	2”	$392.42
CB0200-42-1.9	200 - 45 deg	1.9	77	42 x 55	65”	12”	2”	$443.81
CBFD240-42	240FD - 45 deg	1.7	77	42 x 59	69”	12”	2”	$392.42
CBFD240-42-1.9	240FD - 45deg	1.9	77	42 x 59	69”	12”	2”	$443.81
CB0250-36	250 - 15 deg	2.0	76	36 x 69	80”	8”	2”	$359.47
CB0250-36-1.9	250 - 15 deg	1.9	76	36 x 69	80”	8”	2”	$410.20
CB0325-36	325 - 15 deg	2.0	92	36 x 84	97”	8”	2”	$421.86
CB0325-36-1.9	325 - 15 deg	1.9	92	36 x 84	97”	8”	2”	$483.26
CB0345-52	345 - 45 deg	2.0	102	52 x 58	70”	12”	2”	$525.16
CB0345-52-1.9	345 - 45 deg	1.9	102	52 x 58	70”	12”	2”	$593.23
CB0350-42	350 - 45 deg	2.0	120	42 x 81	93”	12”	2”	$554.02
CB0350-42-1.9	350 - 45 deg	1.9	120	42 x 81	93”	12”	2”	$634.11
CB0500-52	500 - 45 deg	2.0	132	52 x 81	92”	12”	2”	$604.56
CB0500-52-1.9	500 - 45 deg	1.9	132	52 x 81	92”	12”	2”	$692.66
CB0850-90	850 - 15 deg	1.7	212	90 x 56	67”	16”	2”	$917.95
CB0850-90-1.9	850 - 15 deg	1.9	212	90 x 56	67”	16”	2”	$1059.44
CB1150-90	1150 - 15 deg	1.7	242	90 x 67	78”	16”	2”	$1044.14
CB1150-90-1.9	1150 - 15 deg	1.9	242	90 x 67	78”	16”	2”	$1205.66
CB1550-90	1550 - 30 deg	1.7	286	90 x 88	97”	16”	2”	$1240.62
CB1550-90-1.9	1550 - 30 deg	1.9	286	90 x 88	97”	16”	2”	$1431.51
CB2450-90	2450 - 15 deg	1.7	437	90 x 114	125”	16”	2”	$1643.19
CB2450-90-1.9	2450 - 15 deg	1.9	437	90 x 114	125”	16”	2”	$1934.86
CB2550-90	2550 - 30 deg	1.7	502	90 x 126	134”	16”	2”	$1891.51
CB2550-90-1.9	2550 - 30 deg	1.9	502	90 x 126	134”	16”	2”	$2226.57

+ indicates available with 3” fitting

* Overall Height (including stand)

Cone Bottom Stands are located on the next page.

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Plastic Tanks

Ace Roto-Mold Cone Bottom Stands



from tank to ground

Part #	Capacity	Weight /lbs.	Clearance	Price
CB023-15ST	55 or 100 gal - 15 degree	37	13”	$163.03
CB036-15ST	145 - 325 gal - 15 degree	84	12”	$310.06
CB036-45ST	150 gal - 45 degree	63	12”	$280.74
CB042-45ST	200, 300 or 350 gal - 45 degree	82	11”	$318.43
CBFD042-45ST	240 gal - 45 degree full drain	82	10”	$318.43
CB052-45ST	345 or 500 gal - 45 degree	174	13”	$532.09
CB064-45ST	1000 or 1490 gal - 45 degree	320	14”	$813.78
CB086-15ST	800, 1700 or 1710 gal - 15 degree	360	11”	$1166.50
CB086-45ST	2600 or 2610 gal - 45 degree	580	12”	$1476.03
CB090-15ST	850 - 3000 gal - 15 degree	380	11”	$1191.84
CB090-30ST	1550 - 2600 gal - 30 degree	640	9”	$1487.94
CB096-30ST	3000 gal - 30 degree	553	12”	$1762.85
CB102-15ST	4600 or 4900 gal - 15 degree	640	11”	$1606.31
CB122-15ST	6900 or 8250 gal - 15 degree	1020	10”	$3512.03

Ace Roto-Mold Blow Molded Inductor Tank Sets





Leg Anchor Kit

Features:

- Blow Molded Inductor Tank Sets are designed for indoor outdoor stationary applications.
- Anchor Kits are available for transportable (non DOT regulated) applications.
- Four blow molded polyethylene legs are included that attach directly to the tank with stainless steel hardware.
- Tanks feature full drain conical bottoms and outlet for complete drainage.
- Tank walls are translucent for level viewing and equipped with gallon/liter indicators.
- Tanks are manufactured from high-density polyethylene with U.V. inhibitors and are designed for the containment of liquids of up to 1.7 specific gravity.

Part #	Capacity	Weight /lbs.	Dimensions*	Price
IBFD35-SET	35 Gallon Full Drain w/Poly Legs	41	25 x 25 x 43	$199.94
IBFD60-SET	60 Gallon Full Drain w/Poly Legs	47	25 x 25 x 55	$231.96
12695	Leg Anchor Kit for Blow Molded Inductors	2	6 x 6 x 6	$31.39

* Shipping carton dimensions

Plastic Tanks

Ace Roto-Mold Inductor Bulk Storage Tanks



Features:

- Inductor Tanks are selected as supply tanks for application systems and when a more complete drain out of stored liquids is required in indoor or outdoor applications.
- Tanks require stands to support the conical bottoms.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Inductor tanks (IN) are furnished with bulkhead fittings as standard.
- Some sizes are available with complete drain-out capability. These "INFD" tanks may have internal or external threads and have various outlet size options.

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Lid	Fitting	Price
IN0015-19	15	1.7	10	19 x 24	12"	2" FPT	$90.76
INFD15-19	15 Full Drain	1.7	10	19 x 27	12"	1 1/2" FPT BOSS	$90.76
IN0015-19SM	15 Side Mount	1.7	8	19 x 24	12"	2" FPT	$90.76
IN0030-24	30	1.7	15	24 x 30	12"	2" FPT	$117.27
INFD30-24	30 Full Drain	1.7	15	24 x 33	12"	1 1/2" FPT BOSS	$117.27
IN0040-30	40	1.7	26	30 x 34	12"	2" MPT BOSS	$160.80
IN0060-24	60 x 24	1.7	22	24 x 42	12"	2" FPT	$148.78
INFD60-24	60 x 24 Full Drain	1.7	22	24 x 46	12"	1 1/2" FPT BOSS	$148.78
INFD60-30	60 x 30 Full Drain	1.7	26	30 x 38	12"	2" MPT BOSS	$180.77
IN0085-30	85	1.7	37	30 x 44	12"	2" FPT	$216.26
INFD85-30	85 Full Drain	1.7	37	30 x 48	12"	2" FPT BOSS	$216.26
IN0110-30	110	1.7	44	30 x 51	12"	2" FPT	$254.71
INFD110-30	110 Full Drain	1.7	44	30 x 56	12"	2" FPT BOSS	$254.71



Ace Roto-Mold Inductor Stands

Part #	Capacity	Weight /lbs.	Dimensions	Price
IN15-ST	15 gallon	15	-	$81.73
INFD15-ST	15 gal. (4" taller for Full Drain tank)	16	-	$83.90
IN30/60-ST	30 or 60 gal. (for 24" dia. tanks)	18	-	$84.30
INFD30/60-ST	30 or 60 (24") gal (4" taller for Full Drain tank	19	-	$86.46
IN40/85-ST	40,60,85 or 110 gal. (for 30" dia. tanks)	40	-	$154.95
IN40-ST (UPS)	40 gal. (designed for UPS shipments)	40	-	$150.44

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Plastic Tanks

Ace Roto-Mold Batch Tanks



Features:

- These batch tanks are designed for indoor applications.
- The tanks support many features including vertical, open top vertical, cone bottom as well as open top cone bottom options.
- All tanks feature 8” lids and one standard fitting.
- A hinged lid option is also available on the open top styles.
- Both polyethylene and metal stands designed for all styles make these tanks very versatile.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and are designed for the containment of liquids up to 2.0 specific gravity.
- Tank walls are translucent for level viewing and equipped with liter and gallon indicators.

Vertical Batch Tanks



Additional Features:

- Perfect for batch chemical/mixer mounting systems as well as many other applications.
- Both polyethylene and metal stands (when used with Vertical Stand Adaptor) are available for the vertical batch tank.

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dimensions	Lid	Fitting	Price
VT0055-23	55	2.0	26	23 x 38	8”	1”	128.03
VT0100-23	100	2.0	36	23 x 64	8”	1”	183.59
VT0145-36	145	2.0	52	36 x 40	8”	1”	231.44
VT0200-36	200	2.0	58	36 x 53	8”	1-1/2”	240.47
VT0250-36	250	2.0	76	36 x 62	8”	1-1/2”	324.23
VT0325-36	325	2.0	92	36 x 81	8”	2”	382.77

Open Top - Vertical Batch Tanks



Additional Features:

- Perfect for batch chemical/mixer mounting systems as well as many other applications.
- Both polyethylene and metal stands (when used with Vertical Stand Adaptor) are available for the vertical batch tank.
- Open Top-Vertical batch tanks come standard with bolt-on lid, a PE hinged lid option is also available.

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dimensions	Lid	Fitting	Price
OP0055-23	55	2.0	26	23 x 36	8”	1”	152.57
OP0100-23	100	2.0	36	23 x 62	8”	1”	208.12
OP0145-36	145	2.0	52	36 x 39	8”	1”	255.97
OP0200-36	200	2.0	58	36 x 51	8”	1-1/2”	293.82
OP0250-36	250	2.0	76	36 x 61	8”	1-1/2”	348.77
OP0325-36	325	2.0	92	36 x 80	8”	2”	407.31

Plastic Tanks

Ace Roto-Mold Batch Tanks



Features:

- These batch tanks are designed for indoor applications.
- The tanks support many features including vertical, open top vertical, cone bottom as well as open top cone bottom options.
- All tanks feature 8” lids and one standard fitting.
- A hinged lid option is also available on the open top styles.
- Both polyethylene and metal stands designed for all styles make these tanks very versatile.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and are designed for the containment of liquids up to 2.0 specific gravity.
- Tank walls are translucent for level viewing and equipped with liter and gallon indicators.

Cone Bottom Batch Tanks



Additional Features:

- Perfect for batch chemical/mixer mounting systems as well as many other applications.
- Both polyethylene and metal stands (when used with Vertical Stand Adaptor) are available for the vertical batch tank.
- Tanks require stand for support.

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dimensions	Lid	Fitting	Price
CB0055-23	55 - 15 deg	2.0	26	23 x 39	8”	1-1/2”	142.35
CB0100-23	100 - 15 deg	2.0	36	23 x 65	8”	1-1/2”	202.16
CB0145-36	145 - 15 deg	2.0	52	36 x 43	8”	2”	252.31
CB0200-36	200 - 15 deg	2.0	58	36 x 55	8”	2”	258.84
CB0250-36	250 - 15 deg	2.0	76	36 x 67	8”	2”	380.99
CB0325-36	325 - 15 deg	2.0	92	36 x 84	8”	2”	409.57

Open Top - Cone Bottom Batch Tanks



Additional Features:

- Perfect for batch chemical/mixer mounting systems as well as many other applications.
- Both polyethylene and metal stands (when used with Vertical Stand Adaptor) are available for the vertical batch tank.
- Open Top-Cone bottom batch tanks come standard with bolt-on lid, a PE hinged lid option is also available.
- Tanks require stand for support.

Part #	Gal. Capacity	Specific Gravity	Weight /lbs.	Dimensions	Lid	Fitting	Price
OC0055-23	55 - 15 deg	2.0	26	23 x 37	8”	1-1/2”	$173.82
OC0100-23	100 - 15 deg	2.0	36	23 x 63	8”	1-1/2”	$235.43
OC0145-36	145 - 15 deg	2.0	52	36 x 41	8”	2”	$287.09
OC0200-36	200 - 15 deg	2.0	58	36 x 53	8”	2”	$293.82
OC0250-36	250 - 15 deg	2.0	76	36 x 65	8”	2”	$386.68
OC0325-36	325 - 15 deg	2.0	92	36 x 82	8”	2”	$449.06

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Plastic Tanks

Ace Roto-Mold Batch Tank Lids & Stands



Batch Tanks are offered with a variety of stand and lid options. Both a polyethylene and metal stand are available for the Cone Bottom versions of the Batch tanks. A polyethylene adaptor is offered to convert the polyethylene stand for use with a Vertical style Batch tank. The Open Top line comes standard with a bolt-on lid, however, a hinged lid is also available. The hinged lid allows a flat spot for mounting and the hinges can be removed to leave half of the tank uncovered.

Part #	Description	Weight /lbs.	Clearance	Price
19502	23" Hinged Lid	8	-	$90.97
19505	36" Hinged Lid	14	-	$129.06
OC023-STP	Poly Stand for 23" dia CB&OC	45	19"	$244.90
19506	23" Vertical Stand Adaptor	7	-	$38.55
OC036-STP	Poly Stand for 36" dia CB&OC	92	19"	$422.44
19507	36" Vertical Stand Adaptor	15	-	$56.93
CB023-15ST	55 or 100 gal-15 deg Metal Stand	37	13"	158.28
CB036-15ST	145,200,250 or 3250 gal-15 deg Metal Stand	84	12"	301.03

Ace Roto-Mold Fuel Tanks



Features:

- Typically used as a fuel tank on power equipment, these specialty tanks are manufactured from high-density cross-linked polyethylene with U.V. stabilizers and are available in natural and black colors.
- Tanks are designed for the containment of all chemicals (including gasoline and diesel fuels) rated for contact with cross-linked polyethylene.
- The standard weight tank is designed for chemicals with a specific gravity of 1.75.
- Tanks are provided with a collection sump on the bottom for fitting installation, but because of the variety of applications, no fittings are furnished.
- Please contact the sales dept. regarding available fittings.

Part #	Capacity	Weight/lbs.	Lid	Width x Length x Height	Price
SP0006-FU	6 Gallon Fuel XLPE	5	2"	10 x 15 x 10	$88.33
SP0006-FUWB	6 Gallon Fuel XLPE w/1/4" Brass Bulkhead	5	2"	10 x 15 x 10	$100.09
SP0012-FU	12 Gallon Fuel XLPE	9	2"	14 x 18 x 12	$106.78
SP0012-FUWB	12 Gallon Fuel XLPE w/1/4" Brass Bulkhead	9	2"	14 x 18 x 12	$118.53

Plastic Tanks

Ace Roto-Mold Open Top Containment Tanks



Features

- Open Top Tanks are selected for collection systems, temporary liquid storage or as secondary containment for tanks in indoor or outdoor stationary installations.
- Tanks are manufactured from medium-or high density polyethylene with U.V. inhibitors.
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Fittings are not furnished unless indicated.

Part #	Capacity	Specific Gravity	Weight /lbs.	Dia. x Height	Price
OP0055-2DC	55 Gallon Drum Containment-2 Drum	1.7	70	34 x 62 x 26	$221.47
OP0055-23	55 Gallon Vertical w/bolt-on top	2.0	26	23 x 36	$169.15
OP0100-23	100 Gallon Vertical w/bolt-on top	2.0	36	23 x 62	$230.74
OP0145-36	145 Gallon Vertical w/bolt-on top	2.0	52	36 x39	$283.80
OP0200-RT	200 Gallon Rectangle	1.7	78	66 x 78 x 12	$287.83
OP0210-40	210 Gallon	2.0	52	40 x 42	$267.14
OP0250-36	250 Gallon Vertical w/bolt-on top	2.0	76	36 x 63	$386.68
OP0325-RT	325 Gallon Rectangle	1.7	115	60 x 96 x 24	$506.21
OP0325-36	325 Gallon Vertical w/bolt-on top	2.0	92	36 x 80	$451.58
OP0360-48	360 Gallon	2.0	115	48 x 48	$416.27
OP0500-56	500 Gallon with bolt-on top	2.0	150	56 x 65	$712.53
OP0625-RT	625 Gallon Rectangle	1.7	145	72 x 108 x 24	$664.27
OP0825-RT	825 Gallon Rectangle	1.7	276	73 x 73 x 66	$1111.71
OP0900-86	900 Gallon	1.7	175	86 x 43	$802.58
OP1000-74	1000 Gallon with bolt-on top	1.7	277	74 x 64	$1109.88
OP1060-86	1060 Gallon with bolt-on top	1.7	192	86 x 56	$901.00
OP1200-86	1200 Gallon	1.7	200	86 x 54	$880.73
OP1325-RT	1325 Gallon Rectangle	1.7	360	84 x 84 x 60	$1422.81
OP1350-86	1350 Gallon	1.7	217	86 x 62	$945.24
OP1360-86	1360 Gallon with bolt-on top	1.7	230	86 x 67	$1048.07
OP1500-86	1500 Gallon	1.7	240	86 x 68	$1049.46
OP1510-86	1510 Gallon with bolt-on top	1.7	252	86 x 71	$1148.73
OP1660-86	1660 Gallon with bolt-on top	1.7	280	86 x 76	$1259.95
OP1700-90	1700 Gallon	1.7	317	90 x 66	$1341.84
OP1825-RT	1825 Gallon Rectangle	1.7	520	96 x 96 x 62	$2065.31
OP2000-RT	2000 Gallon Rectangle	1.7	570	96 x 96 x 68	$2648.98
OP2060-86	2060 Gallon with bolt-on top	1.7	402	86 x 95	$1741.12
OP2200-90	2200 Gallon	1.7	365	90 x 85	$1595.37
OP2700-90	2700 Gallon	1.7	480	90 x 103	$2039.33
OP3300-102	3300 Gallon	1.7	550	102 x 105	$2302.95
OP3700-96	3700 Gallon (optional bolt-on top)	1.7	625	96 x 128	$2590.36
OP6800-120	6800 Gallon (optional bolt-on top)	1.7	1525	120 x 146	$6121.45

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Ace Roto-Mold Dualline™ Double Wall Containment Tank



Tank shown with optional fitting

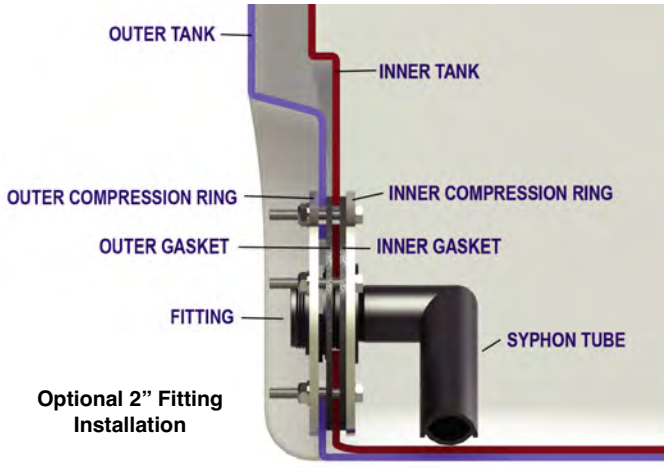
Dualline™ Double Wall Tank's strong, durable, quality construction is designed for the containment of all chemicals rated for contact with polyethylene. Dualline™ tanks are freestanding double wall vertical tanks with a flat bottom for indoor or outdoor stationary applications. Double wall construction provides containment in the event the inner or primary tank is compromised. An EPDM elastic seal is standard and seals the primary tank to the secondary tank to prevent dirt and moisture from entering the containment space between tanks.

Features:

- Furnished with a 16" vented lid assembly as standard.
- Three fitting flats are provided on the top for custom tank plumbing.
- A 1" service fitting is provided on the secondary tank in the event that the containment requires evacuation.
- Tanks manufactured from linear low density polyethylene with U.V. stabilizers.
- Standard colors are white, yellow, and black. Consult factory for optional colors.
- Designed for the containment of all chemicals rated for contact with polyethylene. Standard weight tank is designed for chemicals with a specific gravity of 1.7. Consult the Application Guideline Manual for known compatible chemicals and service temperatures. FDA compliant materials are available.

Optional Feature:

Furnished with a 2" polypropylene fitting with Santoprene® gasket and 316 stainless steel compression rings. Note that optional fitting must be factory installed. Accessory not sold separately. Consult factory regarding fitting and gasket options.



Optional 2" Fitting Installation

Dualline™ Double Wall Containment Tank

Description	Weight (lb)	Dimensions (in.)	Part #	Price $
65 Gallon	52	28 x 43	DW0065-28	400.19
120 Gallon	81	36 x 50	DW0120-36	640.03
150 Gallon	99	36 x 60	DW0150-36	775.15
300 Gallon	190	57 x 45	DW0300-57	1150.82
500 Gallon	264	57 x 69	DW0500-57	1449.99
1000 Gallon	522	77 x 82	DW1000-77	2577.37
1500 Gallon	673	77 x 119	DW1500-77	3312.43
2000 Gallon	907	102 x 97	DW2000-102	4219.54
Optional 1" Fitting	N/A	N/A	19557	301.71
Optional 2" Fitting	N/A	N/A	19563	547.81
Optional 3" Fitting	N/A	N/A	19569	1085.56

All prices subject to change without notice.

Plastic Tanks

Ace Roto-Mold Pickup Tanks

Features:

- Pickup Tanks are selected as applicator tanks or when transportable (non D.O.T. regulated) containment is required.
- Tanks are designed to fit most pickup trucks.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.





Part #	Capacity	Weight /lbs.	Dia. x Height	Lid	Fitting	Price
PU0200-52	200 Gallon	56	52 x 30	8”	2”	$269.91
PU0205-52*	205 Gallon Low Profile	87	52 x 52 x 26	7”	2”	$375.25
PU0305-60*+	305 Gallon Low Profile	107	60 x 58 x 30	7”	2”	$449.53
PU0350-62	350 Gallon	94	62 x 34	8”	2”	$411.36
PU0450-62	450 Gallon	104	62 x 41	8”	2”	$479.31

*Syphon tube included with all Pickup Tanks. * Tank requires sidewall support +Tank specific gravity is 1.5

7

Ace Roto-Mold Stock Tanks



Features:

- Stock Tanks are designed for portable livestock watering.
- Tank tops, sides and bottom are ribbed for strength.
- Drain plug is provided on all tanks except 124 models.
- Tank models are nestable for shipping and storage.
- Tanks are manufactured from U.S.D.A. compliant low-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.0 specific gravity.

Part #	Capacity	Model No.	Dia.xLengthxHeight	Weight/Lbs.	Drain Plug	Price
ARM-10115	50 Gallon Oval	RE124	50 x 31 x 12	15	No outlet	$93.46
ARM-10116	100 Gallon Oval	RE224	55 x 31 x 25	25	1”	$116.16
ARM-19455	120 Gallon Round	R42	48 x 24	32	1-1/2”	$157.86
ARM-10117	150 Gallon Oval	RE226	75 x 31 x 25	46	1”	$197.82
ARM-10138	320 Gallon Round	R62	72 x 24	62	1-1/2”	$264.56
ARM-10139	610 Gallon Round	R82	96 x 24	92	1-1/2”	$390.41
ARM-10135	920 Gallon Round	R92	106 x 29	137	1-1/2”	$545.17

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Plastic Tanks

Ace Roto-Mold Spot Sprayer Applicator Tanks



Features:

- Spot Sprayer Tanks are designed as portable applicator supply tanks and are equipped with pump and equipment mount inserts.
- Tanks are equipped with molded in legs to support the tank and band locators for tie down.
- Tanks mount with bottom inserts.
- Tanks are manufactured from linear low-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.

Part #	Capacity	Weight/lbs.	Lid	W x L x H	Price
SM0014-14S	14 Gallon with sump	8	5”	14 x 30 x 14	$68.05
SS0014-14	14 Gallon without sump	8	5”	14 x 30 x 14	$68.05
SM0025-18S	25 Gallon with sump	14	5”	18 x 34 x 18	$91.82
SS0025-18	25 Gallon without sump	14	5”	18 x 34 x 18	$91.82

Ace Roto-Mold Blow-Molded Applicator Tanks



Features:

- Blow Molded Applicator Tanks are designed with injection-molded leg inserts that allow the tanks to be anchored for transportable applications.
- They are furnished with brass inserts for pump and wand clip mounting.
- Tanks are available in white or yellow.
- Tanks are manufactured from high-density polyethylene with U.V. stabilizers and designed for containment of liquids of up to 1.7 specific gravity.
- Tanks are equipped with U.S. gallon and metric indicators for liquid level viewing.

Part #	Capacity	Weight/lbs.	Lid	W x L x H	Price
SB00040SWSS	40 Gallon White Single Tank	18	5”	24 x 36 x 19	$82.25
SB40WP-DR	40 Gallon White Pallet Quantity	193	5”	pallet of 10 tanks	$763.80
SB00040SYSS	40 Gallon Yellow Single Tank	18	5”	24 x 36 x 19	$83.84
SB40YP-DR	40 Gallon Yellow Pallet Quantity	193	5”	pallet of 10 tanks	$777.69
SB00060SWSS	60 Gallon White Single Tank	21	5”	24 x 36 x 26	$107.82
SB60WP-DR	60 Gallon White Pallet Quantity	188	5”	pallet of 8 tanks	$761.49
SB00060SYSS	60 Gallon Yellow Single Tank	21	5”	24 x 36 x 26	$108.56
SB60YP-DR	60 Gallon Yellow Pallet Quantity	188	5”	pallet of 8 tanks	$774.87

Plastic Tanks

Ace Roto-Mold Stackable Tote Tanks



Features:

- Stackable Totes can be used for indoor or outdoor, stationary or portable applications (non DOT regulated).
- Four lift lugs are provided for lifting each tote and a 4-way forklift accessible skid is available for easy handling.
- Each tote features three 2" threaded ports for dispensing the totes contents.
- Tanks are manufactured from medium-density polyethylene with U.V. stabilizers.

+ ST0035-32 is limited to stacking 5 high
ST0070-32 is limited to stacking 3 high
ST0120-32 is limited to stacking 2 high

Part #	Capacity	Weight/lbs.	Lid	W x L x H	Price
ST0035-32+	35 Gallon Stackable	30	7"	32 x 32 x 15	$207.95
ST0070-32+	70 Gallon Stackable	42	7"	32 x 32 x 25	$244.94
ST0120-32+	120 Gallon Stackable	77	7"	32 x 32 x 38	$372.86





Part #	Description	Weight/lbs.	Lid	W x L x H	Price
ST70/120-SK	35, 70 or 120 Gallon Tote Skid	50	-	30 x 30 x 8	$170.33
ST024-LG	24" Leg Kit for 35, 70 or 120 Gallon Tote Skid	24	-	5 x 5 x 26	$150.61
ST036-LG	36" Leg Kit for 35, 70 or 120 Gallon Tote Skid	70	-	8 x 8 x 41	$179.68
ST70/120-DT	35, 70 or 120 Gallon Drip Tray Kit	15	-	5 x 20 x 35	$162.50
ST70/120-PL-1	35, 70 or 120 Gal Plumbing Kit for single tank	1	-	6 x 6 x 6	$32.83
ST70/120-PL-2	35, 70 or 120 Gal Plumbing Kit for 2 tanks	10	-	16 x 10.5 x 9	$186.14
ST70/120-PL-3	35, 70 or 120 Gal Plumbing Kit for 3 tanks	12	-	16 x 10.5 x 9	$251.21

Plastic Tanks

Ace Roto-Mold Pallet Paks



Features:

- Pallet Pak units are designed for light-duty transport (non-D.O.T. regulated) for indoor or outdoor applications.
- The base of the pallet frame is designed for forklift transportability.
- The rectangular pallet paks have a metal frame and plastic base.
- The vertical paks have poly bases.
- The 300 gallon pak can be stacked two-high.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.

Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
SP0150-PP	150 Gal Pallet Pak-1 Tank,Pallet,Frame	201	27 x 43 x 47	7”	2”	$653.10
SP0150-2TPP	150 Gal Pallet Pak-2 Tanks,Pallet,Frame	356	51 x 43 x 47	7”	2”	$1154.58
SP0300-PP	300 Gal Pallet Pak-1 Tank,Pallet,Frame	316	51 x 43 x 47	7”	2”	$935.62
VT0110-PP	110 Gal Pallet & Tank	68	33 x 40 x 44	5”	2” Top	$326.21
VT0210-PP	210 Gal Pallet & Tank	84	41 x 52	5”	2” Top	$406.05

Ace Roto-Mold Pallet Tanks only

Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
SP0150-PPTK*	150 Gal Rectangle	80	24 x 40 x 42	7”	2”	$335.69
SP0300-PPTK*	300 Gal Rectangle	120	48 x 40 x 42	7”	2”	$538.87
VT0110-32	110 Gal Tank Only	40	32 x 41	5”	2” Top	$218.34
VT0210-40	210 Gal Tank Only	56	40 x 49	5”	2” Top	$262.38

* Rectangle tanks used without the pallet still require side support.

Ace Roto-Mold Gusseted Top Vertical Tanks



- Vertical tanks are free standing with a flat bottom for indoor or outdoor installations.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.5 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.

Part #	Capacity	Weight /lbs.	Dia. x Height	Lid	Fitting	Price
GV1050-86	1050 Gallon	175	86 x 50	16”	2”	$747.62
GV1350-86	1350 Gallon	207	86 x 62	16”	2”	$885.34
GV1500-86	1500 Gallon	228	86 x 69	16”	2”	$961.06
GV1650-86	1650 Gallon	255	86 x 74	16”	2”	$1092.65

Plastic Tanks

Ace Roto-Mold Specialty Bulk Storage & Applicator Tanks

Features:

- Specialty Tanks are available for a variety of custom applications in both stationary and portable configurations.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.



Specialty Rinse Tanks

Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
SP002.5-RT	2.5 Gal Rectangle	3	7 x 15 x 14	5”	3/4”	$39.52
SP0003-RT	3 Gal Rectangle	3	7 x 12 x 14	5”	3/4”	$41.14
SP003.5-CL	3.5 Gal Cylinder	4	11 x 15	5”	3/4”	$41.60
SP0004-SQ5	4 Gal Square	4	11 x 11 x 15	5”	1 1/4”	$61.41
SP0004-SQ8	4 Gal Square	4	11 x 11 x 14	8”	1 1/4”	$61.41
SP0005-SQ5	5 Gal Square	5	11 x 11 x 20	5”	1 1/4”	$61.17
SP0005-SQ8	5 Gal Square	5	11 x 11 x 19	8”	1 1/4”	$61.17
SP0010-SQ8	10 Gal Square	10	13 x 13 x 21	8”	1 1/4”	$87.34

Rectangle Tanks Flat Bottom



Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
SP0005-RT	5 Gallon	5	10 x 22 x 8	5”	-	$47.30
SP0006-2P	6 Gal w/pump mount & 2” lid	5	12 x 15 x 8	2”	-	$50.87
SP0006-5N	6 Gal w/5” lid	5	12 x 15 x 8	5”	-	$50.87
SP0007-RT	7 Gallon	7	9 x 14 x 15	5”	-	$56.83
SP0016-MM	16 Gallon	9	14 x 21 x 14	5”	-	$64.17
SP0020-OM	20 Gal Upright	16	11 x 15 x 31	5”	1/2” outlet	$102.89

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Plastic Tanks

Ace Roto-Mold Specialty Bulk Storage & Applicator Tanks

Applicator Tanks Sump on Bottom



Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
SP0008-VM	8 Gal Loaf	6	12 x 16 x 17	5”	1/2” FPT Boss	$63.40
SP0012-RT	12 Gal Rectangle	9	14 x 18 x 12	5”	3/4”	$67.25
SP0012-VM	12 Gal Loaf	9	12 x 16 x 22	5”	1/2” FPT Boss	$65.51
SP0019-VM	19 Gal Loaf	15	12 x 16 x 28	5”	1/2” FPT Boss	$95.22
SP0020-LC	20 Gal Rectangle	11	14 x 28 x 12	5”	3/4”	$89.55



Utility Tanks Flat Bottom

Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
SP0026-RT	26 Gal Rectangle	14	18 x 25 x 19	8”	3/4” outlet	$109.14
SP0045-AS	45 Gal Rectangle	22	18 x 37 x 18	5”	-	$121.78
SP0050-RT*	50 Gal Rectangle	25	19 x 38 x 20	8”	1”	$159.77
SP0055-MM	55 Gal Rectangle	30	18 x 18 x 44	5”	1”	$157.38
SP0080-RT*	80 Gal Rectangle (Support Req.)	42	18 x 27 x 44	5”	1”	$212.03
SP0100-RT*	100 Gal Rectangle	48	27 x 43 x 26	8”	1”	$240.67
SP0150-RT*	150 Gal Rectangle	60	36 x 48 x 25	8”	1”	$284.49
SP0200-RT*	200 Gal Rectangle	80	36 x 48 x 34	8”	1”	$352.02
SP0250-UT	250 Gal Upright Rectangle	113	29 x 62 x 42	16”	1 1/2”	$495.07
SP0300-UT	300 Gal Upright Rectangle	159	29 x 62 x 53	16”	1 1/2”	$635.58
SP0400-UT	400 Gal Upright Rectangle	207	29 x 62 x 66	16”	2”	$821.37

* Sloped bottom for full drainage

Powder-Coated Steel Bands

Part #	Capacity	Weight /lbs.	Bands	Lid	Fitting	Price
SP0050-SBP	50 Gallon Rectangle Kit	7	2 x 54.5	-	-	$38.29
SP0080-SBP	80 Gal Rect Support Band	21	3 x 93	-	-	$52.04
SP0100-SBP	100 Gallon Rectangle Kit	11	2.25 x 70.5	-	-	$50.79
SP0150-SBP	150 Gallon Rectangle Kit	14	2.25 x 77.5	-	-	$51.73
SP0200-SBP	200 Gallon Rectangle Kit	16	2.25 x 94	-	-	$57.76

Plastic Tanks

Ace Roto-Mold Specialty Bulk Storage & Applicator Tanks

Low-Profile Rectangle Tanks



Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
LP0050-RT	50 Gal. Low-Profile Rectangle	37	24 x 43 x 15	5”	1”	$193.13
LP0068-RT	68 Gal. Low-Profile Rectangle	42	26 x 42 x 17	6”	1”	$225.69
LP0110-RT	110 Gal. Low-Profile Rectangle	60	35 x 48 x 19	5”	1”	$278.87
LP0200-RT	200 Gal. Low-Profile Rectangle	84	48 x 60 x 19	8”	1”	$358.07
LP0300-RT	300 Gal. Low-Profile Rectangle	135	48 x 80 x 21	8”	2”	$556.91

Powder-Coated Steel Bands

Part #	Capacity	Weight /lbs.	Bands	Lid	Fitting	Price
LP0050-SBP	50 Gal Low-Profile Band Kit	7	2 x 51	-	-	$37.51
LP0068-SBP	68 Gal Low-Profile Band Kit	7	2 x 58	-	-	$42.72
LP0110-SBP	110 Gal Low-Profile Band Kit	11	2 x 69	-	-	$49.96
LP0200-SBP	200 Gal Low-Profile Band Kit	14	2 x 86.5	-	-	$69.56
LP0300-SBP	300 Gal Low-Profile Band Kit	16	2 x 86.5	-	-	$89.97



Rectangle Tanks Total Drain

Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
SP0035-RT*	35 Gal Rectangle	17	19 x 28 x 20	5”	1”	$112.99
SP0056-RT*	56 Gal Rectangle	28	20 x 38 x 26	5”	3/4”	$155.87

* Sloped bottom for full drainage

Ace Roto-Mold H2O Water Only Vertical Tanks



Features:

- Water Only Vertical Tanks are free standing for indoor or outdoor stationary applications.
- Tanks are manufactured from FDA compliant high-density polyethylene with U.V. inhibitors.
- They are designed for the storage of chemicals with a specific gravity of 1.0 or less and available in dark green.

Part #	Capacity	Weight /lbs.	Dia.xheight	Lid	Fitting	Price
WO2500-VT	2500 Gallon Vertical	392	96 x 92	16”	2”	$1551.16
WO3000-VT	3000 Gallon Vertical	487	96 x 109	16”	2”	$1843.14

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Plastic Tanks

Ace Roto-Mold PCO (Pest Control Operator) Tanks



Features:

- PCO tanks can be selected for stationary or transportable (non-D.O.T. regulated) applications both indoor and outdoors.
- The 50-300 gallon tanks have a rounded bottom for best fluid drainage.
- A 2" deep sump option is also available on these sizes.
- PCO tanks must be securely anchored for use in transportable applications and powder coated steel bands are available for this purpose.
- Tanks are manufactured from medium-density polyethylene with U.V. stabilizers and designed for containment of liquids of up to 1.7 specific gravity.

Part #	Capacity	Weight /lbs.	Widthxlengthxheight	Lid	Fitting	Price
PCO035-16W	35 Gallon	25	16 x 35 x 21	5"	1"	$144.32
PCO050-19S	50 Gallon w/sump	25	19 x 38 x 23	8"	1"	$159.01
PCO050-19W	50 Gallon	25	19 x 38 x 23	8"	1"	$159.01
PCO100-30S	100 Gallon w/sump	50	30 x 38 x 29	8"	1"	$247.51
PCO100-30W	100 Gallon	50	30 x 38 x 29	8"	1"	$247.51
PCO150-37S	150 Gallon w/sump	61	37 x 48 x 29	12"	1 1/4"	$297.37
PCO150-37W	150 Gallon	61	37 x 48 x 29	12"	1 1/4"	$297.37
PCO200-37S	200 Gallon w/sump	82	37 x 48 x 38	12"	1 1/4"	$367.91
PCO200-37W	200 Gallon	82	37 x 48 x 38	12"	1 1/4"	$367.91
PCO300-37S*	300 Gallon w/sump	160	37 x 69 x 40	16"	2"	$785.95
PCO300-37W*	300 Gallon	160	37 x 69 x 40	16"	2"	$785.95

* S = Sump / W = Without sump

PCO300-37 comes with internal baffle for support and fluid control.

Powder-Coated Steel Bands for PCO's

Part #	Capacity		Weight/lbs.	Dimensions	Price
PC0035-SB*	35 Gallon Kit Silver	-	3	2 x 50.5	$37.28
PC0050-SBP	50 Gallon Kit Silver	-	6	2.5 x 57.5	$44.96
PC0100-SBP	100 Gallon Kit Silver	-	10	2.5 x 76	$49.44
PC0150-SBP	150 Gallon Kit Silver	-	15	3.5 x 82	$69.34
PC0200-SBP	200 Gallon Kit Silver	-	18	3.5 x 98	$100.19
PC0300-SBP	300 Gallon Kit Silver	-	20	4 x 100	$126.01

* PC0035-SB is stainless steel. All other sizes are powder coated silver. 2 Bands per Set.

Plastic Tanks

Ace Roto-Mold Septic/Cistern Tanks



Features:

- Septic Tanks are designed and manufactured to meet waste-water treatment system standards.
- Cistern water tanks are designed for bulk storage or collection of potable water.
- Manufactured from high-density polyethylene with U.V. inhibitors, tanks are designed for containment of liquids up to 1.7 specific gravity.
- Tanks feature deep ribbing for strength to permit below-ground installations of up to 36" depths.
- The 1000, 1250, and 1500 gallon double-compartment septic tanks have been tested by NSF to meet the IAPMO Z1000 and CAN/CSA-B-66 standards.
- Consult with the applicable state, county or local codes for polyethylene septic tank compliance and installation requirements.

Septic Tanks

Part #	Capacity	Description	Weight/lbs.	Width x Length x Height	Price
AST-0300-1	300 Gallon	Pump Tank w/One Access Cover	134	54 x 56	$566.15
AST-0500-1	500 Gallon	Pump Tank w/One Access Cover	197	63 x 74	$736.21
AST-0750-1	750 Gallon	Single Compartment w/One Access Cover	259	60 x 70 x 60	$983.60
AST-1000-1	1000 Gallon	Single Compartment w/Two Access Covers	390	60 x 101 x 60	$1370.42
AST-1000-2	1000 Gallon	Double Compartment w/Two Access Covers	436	60 x 101 x 60	$1583.40
AST-1250-1	1250 Gallon	Single Compartment w/Two Access Covers	443	58 x 118 x 72	$1577.19
AST-1250-2	1250 Gallon	Double Compartment w/Two Access Covers	489	58 x 118 x 72	$1794.53
AST-1500-1	1500 Gallon	Single Compartment w/Two Access Covers	528	58 x 137 x 72	$1852.08
AST-1500-2	1500 Gallon	Double Compartment w/Two Access Covers	574	58 x 137 x 72	$2080.02



Cistern Tanks

Part #	Capacity	Description	Weight/lbs.	Width x Length x Height	Price
AST-0325-1W	325 Gallon	Cistern Tank	134	54 x 56	$582.57
AST-0525-1W	525 Gallon	Cistern Tank	194	63 x 74	$763.05
AST-0850-1W	850 Gallon	Cistern Single Compartment	259	60 x 70 x 60	$1020.38
AST-1150-1W	1150 Gallon	Cistern Single Compartment	414	60 x 101 x 60	$1416.97
AST-1450-1W	1450 Gallon	Cistern Single Compartment	473	58 x 118 x 72	$1607.38
AST-1700-1W	1700 Gallon	Cistern Single Compartment	567	58 x 137 x 72	$1898.69

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Ace Roto-Mold Septic/Cistern Tanks



Features:

- Aquifer Low Profile Cistern Tanks are designed to provide a safe and durable means for the storage of potable or non-potable water.
- Their sectional ribbing design will sustain vertical soil pressures of up to 400 PSF.
- Tanks can be buried up to 28" deep and can be backfilled empty.
- Multiple fitting locations are provided to accommodate a variety of plumbing configurations.
- Manufactured from high density polyethylene with U.V. inhibitors.
- Aquifers are made from FDA compliant resins and conform to the requirements of NSF/ANSI Standard 61.
- Designed for the containment of liquids of up to 1.7 specific gravity.
- Tanks are available with burial lid or ground access assembly options.

Aquifer Low Profile Cistern Tanks

Part #	Capacity	Description	Weight/lbs.	Width x Length x Height	Price
ACT1000-LPB	1000 Gallon	Low-Profile w/Burial Lid	559	98 x 111 x 36	$2077.92
ACT1000-LPG	1000 Gallon	Low-Profile w/28" Ground Access Assy	595	98 x 111 x 36	$2202.24
ACT1500-LPB	1500 Gallon	Low-Profile w/Burial Lid	702	98 x 111 x 48	$2549.52
ACT1500-LPG	1500 Gallon	Low-Profile w/28" Ground Access Assy	738	98 x 111 x 48	$2673.87
ACT2000-LPB	2000 Gallon	Low-Profile w/Burial Lid	917	98 x 158 x 45	$3259.86
ACT2000-LPG	2000 Gallon	Low-Profile w/28" Ground Access Assy	953	98 x 158 x 45	$3384.19
ACT2500-LPB	2500 Gallon	Low-Profile w/Burial Lid	1031	98 x 158 x 54	$3658.20
ACT2500-LPG	2500 Gallon	Low-Profile w/28" Ground Access Assy	1067	98 x 158 x 54	$3782.53

Septic/Cistern Tank Accessories are located on the next page.

Plastic Tanks

Septic/Cistern Tank Accessories

Only Ace Tanks have double-walled access covers that lock securely to the tank body and can be secured using nylon ties, eliminating the need for metal fasteners that can corrode and fail. They feature a custom-molded gasket in the lid. Manufactured from extruded Nitrile Rubber, the gasket snaps into the lid to make a watertight seal.

Part #	Capacity	Description	Weight/lbs.	Dimensions	Price
AST19365	-	7" Access Extension - Black	13	32.5 x 13.5	$75.15
AST19379	-	7" Access Extension - White	13	32.5 x 13.5	$86.12
AST19212	-	16" Access Extension - Black	35	32.5 x 22	$95.71
AST19214	-	16" Access Extension - White	35	32.5 x 22	$122.30
AST19368	-	16" Access Extension - Green	35	32.5 x 22	$148.61
AST19211	-	24" Ace Access Cover - Black	14	32.5 x 8	$65.65
AST19213	-	24" Ace Access Cover - White	14	32.5 x 8	$79.06
AST19366	-	24" Ace Access Cover - Green	14	32.5 x 8	$83.37
ACT-19486	-	24" Ace Access Cover - Blue	14	32.5 x 8	$76.24
ACT-16054	-	16" Aquifer Ground Access Assy-Riser & Lid	43	34 x 24	$195.56
ACT-16052	-	28" Aquifer Ground Access Assy-Riser & Lid	53	34 x 38	$226.26
ACT-16053	-	24" Aquifer Burial Lid & Gasket	17	35 x 8	$101.92
AST19257	-	8" dia. Riser & Lid - Black	20	32.5 x 29	$97.09
AST19258	-	8" dia. Riser & Lid - White	20	32.5 x 29	$97.09
AST10078	-	4" Sanitary Gasket	1	4.00 ID x 8 OD	$6.32
AST10084	-	4" Sch. 40 Gasket	1	4.25 ID x 8 OD	$6.04
AST19256	-	4" Gasket Retainer & Hardware	1	-	$8.31
AST10154	-	Divider Panel Assembly for 1000 gal w/Hardware	46	-	$199.86
AST19233	-	Divider Panel Assembly for 1250/1500 gal w/Hardware	46	-	$203.87
AST18000-xx	-	Internal Plumbing Kit xx = State Specific	-	-	$119.66



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Plastic Tanks

Ace Roto-Mold Tractor Mounted Tanks



Oval Tank

Features:

- Tractor Mounted Tanks are designed as portable (non D.O.T. regulated) applicator tanks.
- Tanks require the bottom to be fully supported with a cradle for use.
- Gallon indicators are included and the tank walls are translucent for level viewing.
- Ends of tanks feature flats to facilitate a variety of installation options.
- Bottom of tanks feature a collection sump for full drain out.
- The tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.7 specific gravity.

Oval and Tear Drop Tanks

Part #	Capacity	Weight /lbs.	WidthxLengthxHeight	Lid	Fitting	Price
OT0300-31	300 Gallon Oval	100	31 x 49 x 56	16”	3/4” & 1-1/4”	$493.93
TD0250-36	250 Gallon Tear Drop	97	36 x 52 x 45	12”	3/4” & 1-1/4”	$462.69
TD0300-36	300 Gallon Tear Drop	109	36 x 62 x 45	12”	3/4” & 1-1/4”	$500.72

Cradles for Tear Drop Tanks

Part #	Capacity		Weight/lbs.	Bands	Price
TD0250-C	250 Gallon	-	96	2.5” x 74.5”	$323.17
TD0300-C	300 Gallon	-	108	2.5” x 74.5”	$353.08



Tear Drop Tank

Cut-Away Applicator Tank



Cut-Away Applicator Tanks

Part #	Capacity	Weight /lbs.	WidthxLengthxHeight	Lid	Fitting	Price
CAW0200-24	200 Gallon	80	24 x 55 x 46	8”	3/4” & 1-1/4”	$382.38
CAW0250-24	250 Gallon	95	24 x 61 x 51	8”	3/4” & 1-1/4”	$436.76

Cradles for Cut-Away Tanks

Part #	Capacity		Weight/lbs.	Bands	Price
CAW0200-C	200 Gallon	-	135	3” x 60”; 3” x 40”	$474.89
CAW0250-C	250 Gallon	-	143	3” x 72”; 3” x 51”	$480.65

Plastic Tanks

Ace Roto-Mold Crop Care Tanks



Features:

- Crop Care Tanks are designed for OEM sprayer applications that contain chemicals rated for contact with polyethylene.
- Three hoop recesses are provided around the tank to facilitate installation and anchoring.
- Wide bottom tanks are available with either box-style or sloped-style sump on the bottom for withdrawal.
- Narrow bottom tanks are cutout on each side to facilitate narrow track widths and are only available with a sloped-style sump.
- Tanks are furnished with polyethylene baffles for fluid control and a five-gallon rinse tank.
- The tanks are manufactured from high-density polyethylene with U.V. stabilizers and are designed for liquids of up to 1.9 specific gravity.

Part #	Capacity	Weight /lbs.	WidthxLengthxHeight	Lid	Fitting	Price
CM0500-48	500 Gallon w/box sump	202	48 x 90 x 38	16”	2”	$862.54
CM0750-48	750 Gallon w/box sump	262	48 x 90 x 50	6”	2”	$1060.90
CC1000-58S*	1000 Gallon w/sloped sump	305	58 x 115 x 47	16”	2”	$1553.45
CC1000-58N*	1000 Gal narrow btm w/sloped sump	305	58 x 115 x 51	16”	2”	$1553.45
CM1000-58B*	1000 Gallon w/box sump	305	58 x 115 x 47	16”	2”	$1553.45
CC1250-58S*	1250 Gallon w/sloped sump	432	58 x 115 x 57	16”	2”	$2084.59
CC1250-58N*	1250 Gal narrow btm w/sloped sump	432	58 x 115 x 61	16”	2”	$2084.59
CM1250-58B*	1250 Gallon w/box sump	432	58 x 115 x 57	16”	2”	$2084.59
CC1500-58S*	1500 Gallon w/sloped sump	483	58 x 115 x 66	16”	2”	$2341.28
CC1500-58N*	1500 Gal narrow btm w/sloped sump	483	58 x 115 x 70	16”	2”	$2341.28
CM1500-58B*	1500 Gallon w/box sump	483	58 x 115 x 66	16”	2”	$2341.28

*Baffles and a 5-gallon rinse tank are included with larger Crop Care tank. Tanks are shipped on returnable pallet. Fittings are shipped loose.

Hoops for Crop Care Tanks

Part #	Capacity		Kit	Kit	Price
CC0500-HPS	500 Gallon Hoops	-	1 Hoop	1-2/3” pipe	$57.32
CC0750-HPS	750 Gallon Hoops	-	1 Hoop	1-2/3” pipe	$66.18
CC1000-HP	1000 Gallon Hoops	-	1 set	3 - 2 3/8” pipes	$301.79
CC1250-HP	1250 Gallon Hoops	-	1 set	3 - 2 3/8” pipes	$381.17
CC1500-HP	1500 Gallon Hoops	-	1 set	5 - 2 3/8” pipes	$635.65

All prices subject to change without notice.

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Plastic Tanks

Ace Roto-Mold Liquid Feeder Tanks



Features:

- These tanks are designed for dispensing liquid feed supplements to livestock.
- Tanks are equipped with rotary dispensing wheels and fill port.
- Tanks are manufactured from medium-density polyethylene with U.V. inhibitors and designed for containment of liquids of up to 1.5 specific gravity.
- Tank walls are translucent for level viewing and equipped with gallon indicators.
- Wheels sold separately.

Part #	Capacity	Description	Weight/lbs.	Dia. x Height	Price
LTA155-55	155 Gallon	Uses up to three 24-inch wheels	60	50 x 38	$241.96
LTA180-68	180 Gallon	Uses up to four 17-inch wheels	75	68 x 34	$300.64
LTA285-68	285 Gallon	Uses up to four 24-inch wheels	98	68 x 39	$380.79
LT17W		17-inch wheel	2	-	$32.97
LT24W		24-inch wheel	4	-	$39.04

Ace Roto-Mold Mineral Feeders/Carts



Features:

- Mineral Feeders feature a heavy metal base and pivot system to prevent mineral loss in wind.
- Polyethylene feeder housing is corrosion resistant with U.V. inhibitors.
- Mineral Feeder capacity is 100 lbs. and is U.S.D.A. compliant.
- Feed carts feature a polyethylene tub with a 3.5 bushel capacity.
- The metal frame is powder coated.

Part #	Capacity	Description	Weight/lbs.	Dimensions(Assembled)	Price
MF-10198	-	100 lb. Mineral Feeder	91	72 x 72 x 54	$378.31
SJ-10183	-	3.5 Bushel Standard Feed Cart	60	18 x 40 x 36	$345.61
SJ-10232	-	3.5 Bushel Deluxe Feed Cart	65	18 x 40 x 36	$604.84

Plastic Tanks

Assmann Small Double Wall Day Tanks

This polyethylene system consists of a primary inner tank and secondary containment, with a capacity of 120% of the inner tank, exceeding EPA standards and complies with 40 CFR-264.193.



Features:

- Inner tank dome overlaps outer tank sidewall to prevent rainwater, snow, and debris from entering secondary containment, making system ideal for outdoor storage of chemicals.
- Molded 7" threaded top access opening is standard. This access opening is chemically resistant and fume tight. Larger access openings available.
- Small footprints of 34-1/2" & under will fit through standard 36" doorway to allow convenient system location within tight manufacturing areas.
- Molded in pump shelf is ideal for installing chemical pumps and metering equipment. This pump shelf is recessed in the top of the tank to contain small chemical spills.
- Recessed lower fitting flat will allow fittings to penetrate through the secondary containment wall and into the primary tanks sump. This feature allows full flooded suction for outlet assemblies.
- Interstitial leak detection systems option available.



Inner tank dome overlaps outer tank to prevent contamination.



Molded in sump in the primary tank is located directly below the pump shelf. Suction lines can be lowered onto the sump area, which will allow for maximum drainage of chemical with top discharge assemblies.

Part #	Gal. Capacity	Specific Gravity	Weight/lbs.	Diameter	Height
IMT20-L	20	1.9	34	26-1/8"	22"
IMT20-XL	20	1.9	34	26-1/8"	22"
IMT40-L	40	1.9	52	26-1/8"	34"
IMT40-XL	40	1.9	52	26-1/8"	34"
IMT65-L	65	1.9	71	26-1/8"	48"
IMT65-XL	65	1.9	71	26-1/8"	48"
IMT85-L	85	1.9	90	34-1/2"	38-1/2"
IMT85-XL	85	1.9	90	34-1/2"	38-1/2"
IMT120-L	120	1.9	112	34-1/2"	51"
IMT120-XL	120	1.9	112	34-1/2"	51"
IMT165-L	165	1.9	138	34-1/2"	66"
IMT165-XL	165	1.9	138	34-1/2"	66"
IMT150-L-1.9	150	1.9	130	47"	44"
IMT150-XL-1.9	150	1.9	130	47"	44"
IMT150-L-2.2	150	2.2	164	47"	44"
IMT150-XL-2.2	150	2.2	164	47"	44"
IMT250-L-1.9	250	1.9	190	47"	61"
IMT250-XL-1.9	250	1.9	190	47"	61"
IMT250-L-2.2	250	2.2	220	47"	61"
IMT250-XL-2.2	250	2.2	220	47"	61"

POA - Price On Application
* L = Linear, XL = Crosslink
Above tanks are natural white. Tanks can be special ordered in Blue, Green, Yellow, or Black.
Larger capacity tanks are located on the next page.

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Plastic Tanks

Assmann Large Secondary Containment Double Wall Tanks

This polyethylene storage tank system consists of a primary inner tank and a secondary, locked-on outer tank with a capacity of 120% of the inner tank, exceeding EPA standards.





Features:

- Inner tank dome overlaps outer tank sidewall to prevent rainwater, snow, and debris from entering secondary containment, making system ideal for outdoor storage of chemicals.
- Our Double Wall Storage Tanks provides individualized secondary containment that, when placed with other tanks in large containment areas, prevents cross-contamination, and eliminates possible dangers of commingling of reactive chemicals.
- Small footprint saves space, while portability assures convenient system relocation.
- Standard lifting lugs and specially designed indentations in the lower sidewall minimize inner tank movement during transport and installation.
- Wide range of fittings and accessories to meet your specifications for all of our poly tanks.
- Available with heat tracing and insulation for use with temperature sensitive chemicals.

Part #	Gal. Capacity	Specific Gravity	Weight/lbs.	Diameter	Height
IMT550-L-1.9	550	1.9	260	60”	73”
IMT550-XL-1.9	550	1.9	260	60”	73”
IMT550-L-2.2	550	2.2	310	60”	73”
IMT550-XL-2.2	550	2.2	310	60”	73”
IMT1050-L-1.5	1050	1.5	376	72”	87”
IMT1050-XL-1.5	1050	1.5	361	72”	87”
IMT1050-L-1.9	1050	1.9	449	72”	87”
IMT1050-XL-1.9	1050	1.9	426	72”	87”
IMT1050-L-2.2	1050	2.2	516	72”	87”
IMT1050-XL-2.2	1050	2.2	482	72”	87”
IMT1550-L-1.5	1550	1.5	634	72”	123”
IMT1550-XL-1.5	1550	1.5	580	72”	123”
IMT1550-L-1.9	1550	1.9	800	72”	123”
IMT1550-XL-1.9	1550	1.9	739	72”	123”
IMT1550-L-2.2	1550	2.2	926	72”	123”
IMT1550-XL-2.2	1550	2.2	856	72”	123”
IMT2550-L-1.5	2550	1.5	1142	96”	119”
IMT2550-XL-1.5	2550	1.5	1057	96”	119”
IMT2550-L-1.9	2550	1.9	1455	96”	119”
IMT2550-XL-1.9	2550	1.9	1327	96”	119”
IMT2550-L-2.2	2550	2.2	1685	96”	119”
IMT2550-XL-2.2	2550	2.2	1537	96”	119”
IMT3050-L-1.5	3050	1.5	1511	96”	138”
IMT3050-XL-1.5	3050	1.5	1375	96”	138”
IMT3050-L-1.9	3050	1.9	1901	96”	138”
IMT3050-XL-1.9	3050	1.9	1750	96”	138”
IMT3050-L-2.2	3050	2.2	2201	96”	138”
IMT3050-XL-2.2	3050	2.2	2026	96”	138”

POA - Price On Application
* L = Linear, XL = Crosslink
Above tanks are natural white. Tanks can be special ordered in Blue, Green, Yellow, or Black.
4050 through 6550 gallon capacity tanks are located on the next page.

Assmann Large Secondary Containment Double Wall Tanks

continued from previous page

This polyethylene storage tank system consists of a primary inner tank and a secondary, locked-on outer tank with a capacity of 120% of the inner tank, exceeding EPA standards.





Features:

- Inner tank dome overlaps outer tank sidewall to prevent rainwater, snow, and debris from entering secondary containment, making system ideal for outdoor storage of chemicals.
- Our Double Wall Storage Tanks provides individualized secondary containment that, when placed with other tanks in large containment areas, prevents cross-contamination, and eliminates possible dangers of commingling of reactive chemicals.
- Small footprint saves space, while portability assures convenient system relocation.
- Standard lifting lugs and specially designed indentations in the lower sidewall minimize inner tank movement during transport and installation.
- Wide range of fittings and accessories to meet your specifications for all of our poly tanks.
- Available with heat tracing and insulation for use with temperature sensitive chemicals.

Part #	Gal. Capacity	Specific Gravity	Weight/lbs.	Diameter	Height
IMT4050-L-1.5	4050	1.5	2430	96”	177”
IMT4050-XL-1.5	4050	1.5	2336	96”	177”
IMT4050-L-1.9	4050	1.9	3099	96”	177”
IMT4050-XL-1.9	4050	1.9	2968	96”	177”
IMT4050-L-2.2	4050	2.2	3598	96”	177”
IMT4050-XL-2.2	4050	2.2	3428	96”	177”
IMT5250-L-1.5	5250	1.5	2826	119”	154”
IMT5250-XL-1.5	5250	1.5	2602	119”	154”
IMT5250-L-1.9	5250	1.9	3619	119”	154”
IMT5250-XL-1.9	5250	1.9	3311	119”	154”
IMT5250-L-2.2	5250	2.2	4193	119”	154”
IMT5250-XL-2.2	5250	2.2	3829	119”	154”
IMT6550-L-1.5	6550	1.5	4209	119”	186”
IMT6550-XL-1.5	6550	1.5	4028	119”	186”
IMT6550-L-1.9	6550	1.9	5347	119”	186”
IMT6550-XL-1.9	6550	1.9	5139	119”	186”
IMT6550-L-2.2	6550	2.2	6174	119”	186”
IMT6550-XL-2.2	6550	2.2	5934	119”	186”

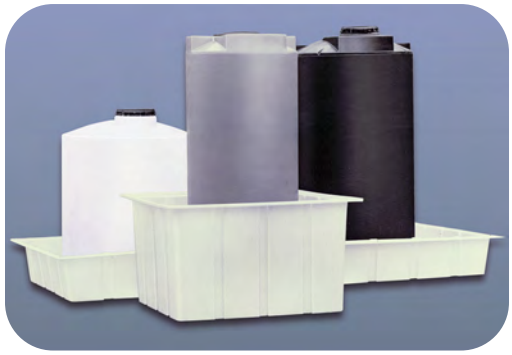
POA - Price On Application
* L = Linear, XL = Crosslink
Above tanks are natural white. Tanks can be special ordered in Blue, Green, Yellow, or Black.

Availability and individual specifications subject to change without notice. All specifications are approximate. All wall thicknesses conform to ASTM D-1998 standards.

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Plastic Tanks

Assmann Rectangular Secondary Containment Basins



Features:

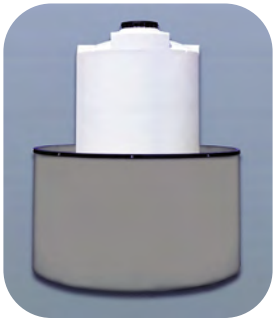
Secondary containment basins (IRD) are molded in virgin high density crosslink or FDA-compliant linear polyethylene. They have a tapered design for nesting during shipping. These meet or exceed EPA requirements for containment of dangerous chemicals. Check with local regulatory agencies for compliance in your area. When determining size of secondary containment basins, always refer to factory drawings to confirm primary polyethylene storage tank size compatibility.

Part #	Gal. Capacity	Specific Gravity	Weight/lbs.	LengthxWidthxHeight	Max. Tank Dia.
IRD40-L	52	1.9	25	32” x 26” x 20”	20”
IRD40-XL	52	1.9	25	32” x 26” x 20”	20”
IRD80-L	95	1.9	40	47” x 32” x 20”	24”
IRD80-XL	95	1.9	40	47” x 32” x 20”	24”
IRD140-L	155	1.9	65	52” x 38” x 24”	29”
IRD140-XL	155	1.9	65	52” x 38” x 24”	29”
IRD200-L	200	1.9	70	57-1/2”x45”x24”	38”
IRD200-XL	200	1.9	70	57-1/2”x45”x24”	38”
IRD240-L	240	1.9	80	60” x 43” x 28”	35”
IRD240-XL	240	1.9	80	60” x 43” x 28”	35”
IRD275-L	275	1.9	85	64-1/2”x52”x24”	45”
IRD275-XL	275	1.9	85	64-1/2”x52”x24”	45”
IRD330-L	330	1.9	90	72” x 43” x 31”	35”
IRD330-XL	330	1.9	90	72” x 43” x 31”	35”
IRD375-L	375	1.9	100	66” x 66” x 24”	58”
IRD375-XL	375	1.9	100	66” x 66” x 24”	58”
IRD495-L	495	1.9	125	69” x 69” x 29”	61”
IRD495-XL	495	1.9	125	69” x 69” x 29”	61”
IRD660-L	660	1.9	220	83” x 64” x 40”	48”
IRD660-XL	660	1.9	220	83” x 64” x 40”	48”
IRD950-L	950	1.9	320	83” x 83” x 46”	68”
IRD950-XL	950	1.9	320	83” x 83” x 46”	68”
IRD1650-L	1650	1.9	400	99” x 99” x 53”	84”
IRD1650-XL	1650	1.9	400	99” x 99” x 53”	84”
IRD1750-L	1750	1.9	400	218”x108”x21”	2x90”
IRD1750-XL	1750	1.9	400	218”x108”x21”	2x90”
IRD3500-L	3500	1.9	700	218”x108”x40”	2x90”
IRD3500-XL	3500	1.9	700	218”x108”x40”	2x90”

POA - Price On Application

Availability and individual specifications subject to change without notice. All specifications are approximate. All wall thicknesses conform to ASTM D-1998 standards.

Assmann Cylindrical Secondary Containment Basins



Features:

These cylindrical containment tanks (IRD) are available in either virgin high density crosslink or medium density FDA-compliant linear polyethylene. A 2” x 2” x 3/16” angle iron top support ring is optional and can be ordered separately. Epoxy painted mild steel or 316 stainless steel rings are available. Basins meet or exceed EPA standards. Local regulations should be checked to assure compliance.

Part #	Gal. Capacity	Specific Gravity	Tank Diameter	Cut Height	Contains Tank Max. Dia.
IRD550-L-1.9	up to 690	1.9	60”	0 to 58”	48”
IRD550-XL-1.9	up to 690	1.9	60”	0 to 58”	48”
IRD550-L-2.2	up to 690	2.2	60”	0 to 58”	48”
IRD550-XL-2.2	up to 690	2.2	60”	0 to 58”	48”
IRD1050-L-1.5	up to 1200	1.5	72”	58” to 72”	64”
IRD1050-XL-1.5	up to 1200	1.5	72”	58” to 72”	64”
IRD1050-L-1.9	up to 1200	1.9	72”	58” to 72”	64”
IRD1050-XL-1.9	up to 1200	1.9	72”	58” to 72”	64”
IRD1050-L-2.2	up to 1200	2.2	72”	58” to 72”	64”
IRD1050-XL-2.2	up to 1200	2.2	72”	58” to 72”	64”
IRD1550-L-1.5	1200 to 1800	1.5	72”	72” to 108”	64”
IRD1550-XL-1.5	1200 to 1800	1.5	72”	72” to 108”	64”
IRD1550-L-1.9	1200 to 1800	1.9	72”	72” to 108”	64”
IRD1550-XL-1.9	1200 to 1800	1.9	72”	72” to 108”	64”
IRD1550-L-2.2	1200 to 1800	2.2	72”	72” to 108”	64”
IRD1550-XL-2.2	1200 to 1800	2.2	72”	72” to 108”	64”
IRD2300-L-1.5	1800 to 2300	1.5	72”	108” to 135”	64”
IRD2300-XL-1.5	1800 to 2300	1.5	72”	108” to 135”	64”
IRD2300-L-1.9	1800 to 2300	1.9	72”	108” to 135”	64”
IRD2300-XL-1.9	1800 to 2300	1.9	72”	108” to 135”	64”
IRD2300-L-2.2	1800 to 2300	2.2	72”	108” to 135”	64”
IRD2300-XL-2.2	1800 to 2300	2.2	72”	108” to 135”	64”
IRD1100-L-1.5	up to 982	1.5	86”	0 to 40”	82”
IRD1100-XL-1.5	up to 982	1.5	86”	0 to 40”	82”
IRD1100-L-1.9	up to 982	1.9	86”	0 to 40”	82”
IRD1100-XL-1.9	up to 982	1.9	86”	0 to 40”	82”
IRD1100-L-2.2	up to 982	2.2	86”	0 to 40”	82”
IRD1100-XL-2.2	up to 982	2.2	86”	0 to 40”	82”
IRD150A-L-1.5	982 to 1301	1.5	86”	40” to 53”	82”
IRD150A-XL-1.5	982 to 1301	1.5	86”	40” to 53”	82”
IRD150A-L-1.9	982 to 1301	1.9	86”	40” to 53”	82”
IRD150A-XL-1.9	982 to 1301	1.9	86”	40” to 53”	82”
IRD150A-L-2.2	982 to 1301	2.2	86”	40” to 53”	82”
IRD150A-XL-2.2	982 to 1301	2.2	86”	40” to 53”	82”
IRD2000-L-1.5	1301 to 1891	1.5	86”	53” to 77”	82”
IRD2000-XL-1.5	1301 to 1891	1.5	86”	53” to 77”	82”
IRD2000-L-1.9	1301 to 1891	1.9	86”	53” to 77”	82”
IRD2000-XL-1.9	1301 to 1891	1.9	86”	53” to 77”	82”
IRD2000-L-2.2	1301 to 1891	2.2	86”	53” to 77”	82”
IRD2000-XL-2.2	1301 to 1891	2.2	86”	53” to 77”	82”
IRD2500-L-1.5	1891 to 2406	1.5	86”	77” to 98”	82”
IRD2500-XL-1.5	1891 to 2406	1.5	86”	77” to 98”	82”
IRD2500-L-1.9	1891 to 2406	1.9	86”	77” to 98”	82”
IRD2500-XL-1.9	1891 to 2406	1.9	86”	77” to 98”	82”
IRD2500-L-2.2	1891 to 2406	2.2	86”	77” to 98”	82”
IRD2500-XL-2.2	1891 to 2406	2.2	86”	77” to 98”	82”

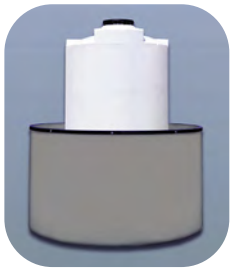
POA - Price On Application * L = Linear , XL = Crosslink Larger capacity tanks are located on the next page.

Availability and individual specifications subject to change without notice. All specifications are approximate.
All wall thicknesses conform to ASTM D-1998 standards.

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Assmann Cylindrical Secondary Containment Basins

continued from previous page



Features:

These cylindrical containment tanks (IRD) are available in either virgin high density crosslink or medium density FDA-compliant linear polyethylene. A 2" x 2" x 3/16" angle iron top support ring is optional and can be ordered separately. Epoxy painted mild steel or 316 stainless steel rings are available. Basins meet or exceed EPA standards. Local regulations should be checked to assure compliance.

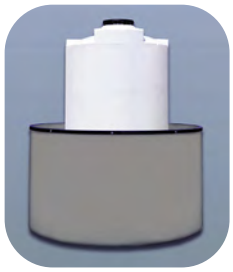
Part #	Gal. Capacity	Specific Gravity	Tank Diameter	Cut Height	Contains Tank Max. Dia.
IRD3000-L-1.5	up to 2881	1.5	90"	0 to 107"	86"
IRD3000-XL-1.5	up to 2881	1.5	90"	0 to 107"	86"
IRD3000-L-1.9	up to 2881	1.9	90"	0 to 107"	86"
IRD3000-XL-1.9	up to 2881	1.9	90"	0 to 107"	86"
IRD3000-L-2.2	up to 2881	2.2	90"	0 to 107"	86"
IRD3000-XL-2.2	up to 2881	2.2	90"	0 to 107"	86"
IRD4000-L-1.5	2881 to 3877	1.5	90"	107" to 144"	86"
IRD4000-XL-1.5	2881 to 3877	1.5	90"	107" to 144"	86"
IRD4000-L-1.9	2881 to 3877	1.9	90"	107" to 144"	86"
IRD4000-XL-1.9	2881 to 3877	1.9	90"	107" to 144"	86"
IRD4000-L-2.2	2881 to 3877	2.2	90"	107" to 144"	86"
IRD4000-XL-2.2	2881 to 3877	2.2	90"	107" to 144"	86"
IRD1850-L-1.5	up to 1760	1.5	96"	0 to 58"	92"
IRD1850-XL-1.5	up to 1760	1.5	96"	0 to 58"	92"
IRD1850-L-1.9	up to 1760	1.9	96"	0 to 58"	92"
IRD1850-XL-1.9	up to 1760	1.9	96"	0 to 58"	92"
IRD1850-L-2.2	up to 1760	2.2	96"	0 to 58"	92"
IRD1850-XL-2.2	up to 1760	2.2	96"	0 to 58"	92"
IRD2400-L-1.5	1760 to 2277	1.5	96"	58" to 75"	92"
IRD2400-XL-1.5	1760 to 2277	1.5	96"	58" to 75"	92"
IRD2400-L-1.9	1760 to 2277	1.9	96"	58" to 75"	92"
IRD2400-XL-1.9	1760 to 2277	1.9	96"	58" to 75"	92"
IRD2400-L-2.2	1760 to 2277	2.2	96"	58" to 75"	92"
IRD2400-XL-2.2	1760 to 2277	2.2	96"	58" to 75"	92"
IRD2900-L-1.5	2277 to 2762	1.5	96"	75" to 91"	92"
IRD2900-XL-1.5	2277 to 2762	1.5	96"	75" to 91"	92"
IRD2900-L-1.9	2277 to 2762	1.9	96"	75" to 91"	92"
IRD2900-XL-1.9	2277 to 2762	1.9	96"	75" to 91"	92"
IRD2900-L-2.2	2277 to 2762	2.2	96"	75" to 91"	92"
IRD2900-XL-2.2	2277 to 2762	2.2	96"	75" to 91"	92"
IRD4100-L-1.5	up to 3946	1.5	119"	0 to 84"	115"
IRD4100-XL-1.5	up to 3946	1.5	119"	0 to 84"	115"
IRD4100-L-1.9	up to 3946	1.9	119"	0 to 84"	115"
IRD4100-XL-1.9	up to 3946	1.9	119"	0 to 84"	115"
IRD4100-L-2.2	up to 3946	2.2	119"	0 to 84"	115"
IRD4100-XL-2.2	up to 3946	2.2	119"	0 to 84"	115"
IRD4200-L-1.5	2762 to 4200	1.5	96"	91" to 140"	92"
IRD4200-XL-1.5	2762 to 4200	1.5	96"	91" to 140"	92"
IRD4200-L-1.9	2762 to 4200	1.9	96"	91" to 140"	92"
IRD4200-XL-1.9	2762 to 4200	1.9	96"	91" to 140"	92"
IRD4200-L-2.2	2762 to 4200	2.2	96"	91" to 140"	92"
IRD4200-XL-2.2	2762 to 4200	2.2	96"	91" to 140"	92"
IRD5600-L-1.5	4200 to 5300	1.5	96"	140" to 177"	92"
IRD5600-XL-1.5	4200 to 5300	1.5	96"	140" to 177"	92"
IRD5600-L-1.9	4200 to 5300	1.9	96"	140" to 177"	92"
IRD5600-XL-1.9	4200 to 5300	1.9	96"	140" to 177"	92"
IRD5600-L-2.2	4200 to 5300	2.2	96"	140" to 177"	92"
IRD5600-XL-2.2	4200 to 5300	2.2	96"	140" to 177"	92"

POA - Price On Application * L = Linear , XL = Crosslink Larger capacity tanks are located on the next page.

Availability and individual specifications subject to change without notice. All specifications are approximate.
All wall thicknesses conform to ASTM D-1998 standards.

Assmann Cylindrical Secondary Containment Basins

continued from previous page



Features:

These cylindrical containment tanks (IRD) are available in either virgin high density crosslink or medium density FDA-compliant linear polyethylene. A 2" x 2" x 3/16" angle iron top support ring is optional and can be ordered separately. Epoxy painted mild steel or 316 stainless steel rings are available. Basins meet or exceed EPA standards. Local regulations should be checked to assure compliance.

Part #	Gal. Capacity	Specific Gravity	Tank Diameter	Cut Height	Contains Tank Max. Dia.
IRD5200-L-1.5	up to 4800	1.5	105"	0 to 133"	101"
IRD5200-XL-1.5	up to 4800	1.5	105"	0 to 133"	101"
IRD5200-L-1.9	up to 4800	1.9	105"	0 to 133"	101"
IRD5200-XL-1.9	up to 4800	1.9	105"	0 to 133"	101"
IRD5200-L-2.2	up to 4800	2.2	105"	0 to 133"	101"
IRD5200-XL-2.2	up to 4800	2.2	105"	0 to 133"	101"
IRD6500-L-1.5	4800 to 6200	1.5	105"	133" to 172"	101"
IRD6500-XL-1.5	4800 to 6200	1.5	105"	133" to 172"	101"
IRD6500-L-1.9	4800 to 6200	1.9	105"	133" to 172"	101"
IRD6500-XL-1.9	4800 to 6200	1.9	105"	133" to 172"	101"
IRD6500-L-2.2	4800 to 6200	2.2	105"	133" to 172"	101"
IRD6500-XL-2.2	4800 to 6200	2.2	105"	133" to 172"	101"
IRD5500-L-1.5	up to 5400	1.5	119"	0 to 116"	115"
IRD5500-XL-1.5	up to 5400	1.5	119"	0 to 116"	115"
IRD5500-L-1.9	up to 5400	1.9	119"	0 to 116"	115"
IRD5500-XL-1.9	up to 5400	1.9	119"	0 to 116"	115"
IRD5500-L-2.2	up to 5400	2.2	119"	0 to 116"	115"
IRD5500-XL-2.2	up to 5400	2.2	119"	0 to 116"	115"
IRD6510-L-1.5	5400 to 6100	1.5	119"	116" to 131"	115"
IRD6510-XL-1.5	5400 to 6100	1.5	119"	116" to 131"	115"
IRD6510-L-1.9	5400 to 6100	1.9	119"	116" to 131"	115"
IRD6510-XL-1.9	5400 to 6100	1.9	119"	116" to 131"	115"
IRD6510-L-2.2	5400 to 6100	2.2	119"	116" to 131"	115"
IRD6510-XL-2.2	5400 to 6100	2.2	119"	116" to 131"	115"
IRD8400-L-1.5	6100 to 8400	1.5	119"	131" to 163"	115"
IRD8400-XL-1.5	6100 to 8400	1.5	119"	131" to 163"	115"
IRD8400-L-1.9	6100 to 8400	1.9	119"	131" to 163"	115"
IRD8400-XL-1.9	6100 to 8400	1.9	119"	131" to 163"	115"
IRD8400-L-2.2	6100 to 8400	2.2	119"	131" to 163"	115"
IRD8400-XL-2.2	6100 to 8400	2.2	119"	131" to 163"	115"
IRD8000-L-1.5	up to 7800	1.5	143"	0 to 116"	139"
IRD8000-XL-1.5	up to 7800	1.5	143"	0 to 116"	139"
IRD8000-L-1.9	up to 7800	1.9	143"	0 to 116"	139"
IRD8000-XL-1.9	up to 7800	1.9	143"	0 to 116"	139"
IRD8000-L-2.2	up to 7800	2.2	143"	0 to 116"	139"
IRD8000-XL-2.2	up to 7800	2.2	143"	0 to 116"	139"
IRD10000-L-1.5	7800 to 9900	1.5	143"	116" to 147"	139"
IRD10000-XL-1.5	7800 to 9900	1.5	143"	116" to 147"	139"
IRD10000-L-1.9	7800 to 9900	1.9	143"	116" to 147"	139"
IRD10000-XL-1.9	7800 to 9900	1.9	143"	116" to 147"	139"
IRD10000-L-2.2	7800 to 9900	2.2	143"	116" to 147"	139"
IRD10000-XL-2.2	7800 to 9900	2.2	143"	116" to 147"	139"
IRD12000-L-1.5	9900 to 11000	1.5	143"	147" to 163"	139"
IRD12000-XL-1.5	9900 to 11000	1.5	143"	147" to 163"	139"
IRD12000-L-1.9	9900 to 11000	1.9	143"	147" to 163"	139"
IRD12000-XL-1.9	9900 to 11000	1.9	143"	147" to 163"	139"
IRD12000-L-2.2	9900 to 11000	2.2	143"	147" to 163"	139"
IRD12000-XL-2.2	9900 to 11000	2.2	143"	147" to 163"	139"

POA - Price On Application * L = Linear , XL = Crosslink

Availability and individual specifications subject to change without notice. All specifications are approximate.
All wall thicknesses conform to ASTM D-1998 standards.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com

Plastic Tanks



* Height is from bottom of tank to under flange of lip.

Chemtainer Open Top Flat Bottom Cylindrical Tanks

• Heavy walled tanks • Ideal for acid and caustics • 5 to 2000 gallons.

Polyethylene

- Excellent chemical & impact resistance
- Operating temp. of 140°F • Open top
- Self-supporting • FDA approved

Polypropylene

- Operating temp. of 212°F • Self-supporting
- High chem. & stress cracking resistance
- Not recom. cold temp. or high impact

Options / Accessories

- Hinge covers • Stands (steel & SS)
- Agitator • Custom Outlets • Gaskets
- Bulkhead Fittings • Siphon Tube
- U Vents • Flange Adapter
- Sight Gauge • Ladder Assembly
- Secondary Containment
- Internal down pipe

Stands sold separately with or w/o agitator mount. Pictured with agitator mount



Part #	Gallon Capacity	Dimensions Dia. x H.*	Price Ea.	Part #	Gallon Capacity	Dimensions Dia. x Height*	Price Ea.
3302-PE	5	11 x 14	$46.00	3313-PE	28	22 x 18	$166.00
3302-C	5	11 x 14	$10.00	3313-C	28	22 x 18	$32.00
3302-A	5	11 x 14	$264.00	3313-A	28	22 x 18	$536.00
3302-S	5	11 x 14	$218.00	3313-S	28	22 x 18	$459.00
3303-PE	7	10 x 21	$80.00	3314-PE	30	18 x 29	$132.00
3303-PP	7	10 x 21	$120.00	3314-PP	30	18 x 29	$246.00
3303-C	7	10 x 21	$10.00	3314-C	30	18 x 29	$26.00
3303-A	7	10 x 21	$264.00	3314-A	30	18 x 29	$487.00
3303-S	7	10 x 21	$218.00	3314-S	30	18 x 29	$420.00
3304-PE	7 1/2	12 x 18	$48.00	3315-PE	36	15 x 48	$304.00
3304-C	7 1/2	12 x 18	$10.00	3315-C	36	15 x 48	$10.00
3304-A	7 1/2	12 x 18	$264.00	3315-A	36	15 x 48	$473.00
3304-S	7 1/2	12 x 18	$220.00	3315-S	36	15 x 48	$384.00
3305-PE	8	13 x 16	$94.00	3316-PE	40	18 x 40	$368.00
3305-C	8	13 x 16	$10.00	3316-PP	40	18 x 40	$532.00
3305-A	8	13 x 16	$433.00	3316-C	40	18 x 40	$26.00
3305-S	8	13 x 16	$384.00	3316-A	40	18 x 40	$536.00
3306-PE	10	13 x 21	$64.00	3316-S	40	18 x 40	$420.00
3306-PP	10	13 x 21	$148.00	3317-PE	55	22 x 36	$190.00
3306-C	10	13 x 21	$10.00	3317-PP	55	22 x 36	$360.00
3306-A	10	13 x 21	$433.00	3317-C	55	22 x 36	$32.00
3306-S	10	13 x 21	$384.00	3317-A	55	22 x 36	$536.00
3307-PE	12	15 x 16	$114.00	3317-S	55	22 x 36	$459.00
3307-C	12	15 x 16	$10.00	3318-PE	65	22 x 40	$252.00
3307-A	12	15 x 16	$433.00	3318-PP	65	22 x 40	$546.00
3307-S	12	15 x 16	$384.00	3318-C	65	22 x 40	$32.00
3308-PE	15	15 x 19	$74.00	3318-A	65	22 x 40	$536.00
3308-PP	15	15 x 19	$186.00	3318-S	65	22 x 40	$459.00
3308-C	15	15 x 19	$10.00	3319-PE	70	24 x 36	$566.00
3308-A	15	15 x 19	$433.00	3319-PP	70	24 x 36	$972.00
3308-S	15	15 x 19	$384.00	3319-C	70	24 x 36	$34.00
3309-PE	16	14 x 27	$94.00	3319-A	70	24 x 36	$711.00
3309-PP	16	14 x 27	$246.00	3319-S	70	24 x 36	$611.00
3309-C	16	14 x 27	$10.00	3320-PE	73	30 x 24	$604.00
3309-A	16	14 x 27	$433.00	3320-C	73	30 x 24	$58.00
3309-S	16	14 x 27	$384.00	3320-A	73	30 x 24	$816.00
3310-PE	16	15 x 22	$76.00	3320-S	73	30 x 24	$711.00
3310-C	16	15 x 22	$10.00	3321-PE	85	28 x 32	$334.00
3310-A	16	15 x 22	$433.00	3321-PP	85	28 x 32	$1048.00
3310-S	16	15 x 22	$384.00	3321-C	85	28 x 32	$56.00
3311-PE	17	18 x 15	$100.00	3321-A	85	28 x 32	$760.00
3311-PP	17	18 x 15	$180.00	3321-S	85	28 x 32	$663.00
3311-C	17	18 x 15	$26.00	3322-PE	90	30 x 30	$698.00
3311-A	17	18 x 15	$487.00	3322-C	90	30 x 30	$58.00
3311-S	17	18 x 15	$420.00	3322-A	90	30 x 30	$816.00
3312-PE	25	14 x 40	$166.00	3322-S	90	30 x 30	$711.00
3312-PP	25	14 x 40	$378.00	3323-PE	90	24 x 48	$326.00
3312-C	25	14 x 40	$10.00	3323-PP	90	24 x 48	$748.00
3312-A	25	14 x 40	$433.00	3323-C	90	24 x 48	$34.00
3312-S	25	14 x 40	$384.00	3323-A	90	24 x 48	$711.00
-	-	-	-	3323-S	90	24 x 48	$611.00

PE = Polyethylene, PP = Polypropylene, C = Cover , A = Stand w/Agitator mount, S = Stand

100 Gallon and larger capacity tanks are located on the next page.

Plastic Tanks

Chemtainer Open Top Flat Bottom Cylindrical Tanks

continued from previous page



Covers not included in tank price. Covers are PE and must be ordered separately.

* Height is from bottom of tank to under flange of lip.

Stands sold separately with or w/o agitator mount. Pictured w/o agitator mount.



Part #	Gallon Capacity	Dimensions Dia. x H.*	Price Ea.	Part #	Gallon Capacity	Dimensions Dia. x Height*	Price Ea.
3324-PE	100	28 x 42	$412.00	3335-PE	260	36 x 60	$910.00
3324-PP	100	28 x 42	$798.00	3335-PP	260	36 x 60	$2066.00
3324-C	100	28 x 42	$56.00	3335-C	260	36 x 60	$74.00
3324-A	100	28 x 42	$760.00	3335-A	260	36 x 60	$949.00
3324-S	100	28 x 42	$663.00	3335-S	260	36 x 60	$760.00
3325-PE	102	27 x 45	$796.00	3336-PE	260	39 x 53	$1352.00
3325-PP	102	27 x 45	$1208.00	3336-C	260	39 x 53	$100.00
3325-C	102	27 x 45	$56.00	3336-A	260	39 x 53	$1109.00
3325-A	102	27 x 45	$760.00	3336-S	260	39 x 53	$916.00
3325-S	102	27 x 45	$663.00	3337-PE	275	42 x 48	$758.00
3326-PE	105	36 x 24	$404.00	3337-PP	275	42 x 48	$1478.00
3326-C	105	36 x 24	$74.00	3337-C	275	42 x 48	$94.00
3326-A	105	36 x 24	$863.00	3337-A	275	42 x 48	$1109.00
3326-S	105	36 x 24	$760.00	3337-S	275	42 x 48	$916.00
3327-PE	105	24 x 54	$796.00	3338-PE	315	48 x 42	$1660.00
3327-PP	105	24 x 54	$1208.00	-	-	-	-
3327-C	105	24 x 54	$34.00	3338-C	315	48 x 42	$138.00
3327-A	105	24 x 54	$781.00	3338-A	315	48 x 42	$1219.00
3327-S	105	24 x 54	$611.00	3338-S	315	48 x 42	$1033.00
3328-PE	110	30 x 36	$426.00	3339-PE	325	36 x 74	$1660.00
3328-PP	110	30 x 36	$1336.00	3339-C	325	36 x 74	$74.00
3328-C	110	30 x 36	$58.00	3339-A	325	36 x 74	$999.00
3328-A	110	30 x 36	$816.00	3339-S	325	36 x 74	$760.00
3328-S	110	30 x 36	$711.00	3340-PE	330	45 x 48	$1826.00
3329-PE	125	36 x 30	$910.00	3340-C	330	45 x 48	$286.00
3329-C	125	36 x 30	$74.00	3340-A	330	45 x 48	$1219.00
3329-A	125	36 x 30	$863.00	3340-S	330	45 x 48	$1033.00
3329-S	125	36 x 30	$760.00	3341-PE	360	48 x 48	$916.00
3330-PE	150	31 x 48	$532.00	3341-PP	360	48 x 48	$2646.00
3330-PP	150	31 x 48	$946.00	3341-C	360	48 x 48	$138.00
3330-C	150	31 x 48	$60.00	3341-A	360	48 x 48	$1219.00
3330-A	150	31 x 48	$816.00	3341-S	360	48 x 48	$1033.00
3330-S	150	31 x 48	$711.00	3342-PE	440	52 x 48	$2286.00
3331-PE	155	36 x 36	$550.00	3342-PP	440	52 x 48	$3556.00
-	-	-	-	3342-C	440	52 x 48	$160.00
3331-C	155	36 x 36	$74.00	3342-A	440	52 x 48	$1463.00
3331-A	155	36 x 36	$863.00	3342-S	440	52 x 48	$1277.00
3331-S	155	36 x 36	$760.00	3343-PE	500	52 x 60	$1488.00
3332-PE	165	31 x 56	$546.00	3343-PP	500	52 x 60	$4204.00
3332-C	165	31 x 56	$60.00	3343-C	500	52 x 60	$160.00
3332-A	165	31 x 56	$900.00	3343-A	500	52 x 60	$1683.00
3332-S	165	31 x 56	$711.00	3343-S	500	52 x 60	$1497.00
3333-PE	180	30 x 60	$554.00	3344-PE	550	48 x 72	$2656.00
3333-PP	180	30 x 60	$1652.00	3344-PP	550	48 x 72	$4352.00
3333-C	180	30 x 60	$58.00	3344-C	550	48 x 72	$138.00
3333-A	180	30 x 60	$900.00	3344-A	550	48 x 72	$1340.00
3333-S	180	30 x 60	$711.00	3344-S	550	48 x 72	$1033.00
3334-PE	200	36 x 48	$604.00	3345-PE	575	60 x 46	$3198.00
3334-PP	200	36 x 48	$1202.00	3345-C	575	60 x 46	$258.00
3334-C	200	36 x 48	$74.00	3345-A	575	60 x 46	$4307.00
3334-A	200	36 x 48	$863.00	3345-S	575	60 x 46	$3819.00
3334-S	200	36 x 48	$760.00	-	-	-	-

PE = Polyethylene, PP = Polypropylene, C = Cover , A = Stand w/Agitator mount, S = Stand

575 Gallon and larger capacity tanks are located on the next page.

Plastic Tanks

Chemtainer Open Top Flat Bottom Cylindrical Tanks

continued from previous page



Covers not included in tank price. Covers are PE and must be ordered separately.

Stands sold separately with or w/o agitator mount. Pictured w/o agitator mount.



Stands sold separately with or w/o agitator mount. Pictured with agitator mount



* Height is from bottom of tank to under flange of lip.

Part #	Gallon Capacity	Dimensions Dia. x H.*	Price Ea.	Part #	Gallon Capacity	Dimensions Dia. x Height*	Price Ea.
3346-PE	575	42 x 96	$3198.00	-	-	-	-
3346-C	575	42 x 96	$94.00	-	-	-	-
3346-A	575	42 x 96	$2695.00	-	-	-	-
3346-S	575	42 x 96	$2325.00	-	-	-	-
3347-PE	650	48 x 84	$3234.00	3355-PE	1100	60 x 90	$4504.00
3347-C	650	48 x 84	$138.00	3355-C	1100	60 x 90	$258.00
3347-A	650	48 x 84	$2893.00	3355-A	1100	60 x 90	$4984.00
3347-S	650	48 x 84	$2649.00	3355-S	1100	60 x 90	$3819.00
3348-PE	675	66 x 46	$3356.00	3356-PE	1250	69 x 84	$4122.00
3348-C	675	66 x 46	$338.00	3356-C	1250	69 x 84	$462.00
3348-A	675	66 x 46	$5788.00	3356-A	1250	69 x 84	$6175.00
3348-S	675	66 x 46	$5093.00	3356-S	1250	69 x 84	$5419.00
3349-PE	700	55 x 70	$3470.00	3357-PE	1500	73 x 84	$5156.00
3349-C	700	55 x 70	$250.00	3357-C	1500	73 x 84	$704.00
3349-A	700	55 x 70	$3828.00	3357-A	1500	73 x 84	$6499.00
3349-S	700	55 x 70	$2940.00	3357-S	1500	73 x 84	$5759.00
3350-PE	800	72 x 46	$3890.00	3358-PE	2000	84 x 84	$5880.00
3350-C	800	72 x 46	$876.00	3358-C	2000	84 x 84	$946.00
3350-A	800	72 x 46	$6499.00	3358-A	2000	84 x 84	$7082.00
3350-S	800	72 x 46	$5724.00	3358-S	2000	84 x 84	$5991.00
3351-PE	800	60 x 66	$3942.00	3359-PE	2000	82 x 90	$5880.00
3351-C	800	60 x 66	$258.00	3359-A	2000	82 x 90	$10621.00
3351-A	800	60 x 66	$4499.00	3359-S	2000	82 x 90	$8987.00
3351-S	800	60 x 66	$3819.00	-	-	-	-
3353-PE	1000	66 x 72	$3900.00	-	-	-	-
3353-C	1000	66 x 72	$338.00	-	-	-	-
3353-A	1000	66 x 72	$7439.00	-	-	-	-
3353-S	1000	66 x 72	$6036.00	-	-	-	-

PE = Polyethylene, PP = Polypropylene, C = Cover , A = Stand w/Agitator mount, S = Stand

All prices subject to change without notice.

Plastic Tanks

Chemtainer Cylindrical Cone Bottom Tanks

Designed for complete drainage. Heavy wall construction provides durability under severe conditions.

• Cone bottom for complete drainage of liquids. • Operating temperature of 150°F HDPE; 220°F PP. • High chemical and impact resistance. • Smooth interior and conical bottom • FDA approved material available • Translucent—visible content level. • Polypropylene is not recommended for high impact or low temperature applications.



Covers not included in tank price. Covers are PE and must be ordered separately.

Stands sold separately.
With or without agitator mount.
Pictured with agitator mount.

Part #	Gallon Capacity	Dimensions Dia. x H.	Price Ea.	Part #	Gallon Capacity	Dimensions Dia. x Height	Price Ea.
3360-PE	5	11 x 13	$54.00	3369-PE	250	42 x 46	$902.00
-	-	-	-	3369-PP	250	42 x 46	$1612.00
3360-C	5	11 x 13	$10.00	3369-C	250	42 x 46	$94.00
3360-A	5	11 x 13	$433.00	3369-A	250	42 x 46	$1505.00
3360-S	5	11 x 13	$343.00	3369-S	250	42 x 46	$1316.00
3361-PE	10	15 x 17	$76.00	3370-PE	350	42 x 60	$1188.00
3361-C	10	15 x 17	$10.00	3370-PP	350	42 x 60	$4222.00
3361-A	10	15 x 17	$452.00	3370-C	350	42 x 60	$94.00
3361-S	10	15 x 17	$371.00	3370-A	350	42 x 60	$2187.00
3362-PE	15	15 x 19	$100.00	3370-S	350	42 x 60	$1660.00
3362-PP	15	15 x 19	$200.00	3371-PE	500	52 x 64	$2138.00
3362-C	15	15 x 19	$10.00	3371-PP	500	52 x 64	$5086.00
3362-A	15	15 x 19	$528.00	3371-C	500	52 x 64	$160.00
3362-S	15	15 x 19	$379.00	3371-A	500	52 x 64	$2671.00
3363-PE	30	18 x 29	$146.00	3371-S	500	52 x 64	$2225.00
3363-PP	30	18 x 29	$304.00	3372-PE	750	62 x 58	$4288.00
3363-C	30	18 x 29	$26.00	3372-C	750	62 x 58	$284.00
3363-A	30	18 x 29	$599.00	3372-A	750	62 x 58	$2887.00
3363-S	30	18 x 29	$495.00	3372-S	750	62 x 58	$2399.00
3364-PE	55	22 x 36	$230.00	3373-PE	1000	66 x 72	$5038.00
3364-PP	55	22 x 36	$468.00	3373-C	1000	66 x 72	$338.00
3364-C	55	22 x 36	$32.00	3373-A	1000	66 x 72	$3111.00
3364-A	55	22 x 36	$725.00	3373-S	1000	66 x 72	$2581.00
3364-S	55	22 x 36	$584.00	-	-	-	-
3365-PE	75	30 x 24	$436.00	-	-	-	-
3365-PP	75	30 x 24	$640.00	-	-	-	-
3365-C	75	30 x 24	$58.00	-	-	-	-
3365-A	75	30 x 24	$857.00	3375-PE	1350	86 x 70	$5174.00
3365-S	75	30 x 24	$743.00	3375-A	1350	86 x 70	$9664.00
3366-PE	100	30 x 36	$496.00	3375-S	1350	86 x 70	$9009.00
3366-PP	100	30 x 36	$844.00	3376-PE	1500	73 x 84	$6878.00
3366-C	100	30 x 36	$58.00	3376-C	1500	73 x 84	$704.00
3366-A	100	30 x 36	$857.00	3376-A	1500	73 x 84	$6765.00
3366-S	100	30 x 36	$743.00	3376-S	1500	73 x 84	$6059.00
3367-PE	125	42 x 24	$928.00	3377-PE	2000	80 x 86	$8158.00
3367-C	125	42 x 24	$94.00	3377-A	2000	80 x 86	$7823.00
3367-A	125	42 x 24	$1505.00	3377-S	2000	80 x 86	$7120.00
3367-S	125	42 x 24	$1316.00	3378-PE	2500	86 x 118	$8678.00
3368-PE	200	31 x 65	$656.00	3378-A	2500	86 x 118	$9029.00
3368-PP	200	31 x 65	$2050.00	3378-S	2500	86 x 118	$8151.00
3368-C	200	31 x 65	$52.00	-	-	-	-
3368-A	200	31 x 65	$1381.00	-	-	-	-
3368-S	200	31 x 65	$1219.00	-	-	-	-

PE = Polyethylene, PP = Polypropylene, C = Cover , A = Stand w/Agitator mount, S = Stand

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Plastic Tanks

Chemtainer Rectangular Tanks

These tanks are designed with heavy walls for long service under severe conditions. Straight sides allow maximum use of space. Our tanks are used in dozens of industries for plating, processing, and storage.

- **Polyethylene or Polypropylene**
- **Operating temperature 140°F HDPE; 212°F PP**
- **Large selection of sizes**
- **FDA approved material available**
- **Easy to clean**
- **Translucent—visible content level**

OPTIONS: • **FRP Encasements with PE or PP liners** • **PE covers** • **Steel Stands and Dollies** • **Complete Fabrication Capabilities**



Rectangular tanks with a height greater than 18" must be supported.

Covers are not included in tank prices. Available at an extra cost.

NOTE: Many other sizes available not listed, contact an ALSCO Sales consultant.

PE = Polyethylene PP = Polypropylene

Part #	Gallon Capacity	Dimensions Width x Length x Height	Price Ea.	Part #	Gallon Capacity	Dimensions Width x Length x Height	Price Ea.
3401-PE	2	8 x 8 x 8	$42.00	-	-	-	-
3402-PE	7	12 x 12 x 12	$60.00	-	-	-	-
-	-	-	-	3418-PE	40	18 x 18 x 30	$298.00
3403-PE	11	12 x 12 x 18	$112.00	3418-PP	40	18 x 18 x 30	$654.00
3405-PE	14	12 x 12 x 24	$128.00	3419-PE	50	18 x 18 x 36	$366.00
3405-PP	14	12 x 12 x 24	$220.00	3420-PE	30	24 x 24 x 12	$168.00
3406-PE	18	12 x 12 x 30	$140.00	3421-PE	45	24 x 24 x 18	$232.00
3406-PP	18	12 x 12 x 30	$320.00	3421-PP	45	24 x 24 x 18	$396.00
3407-PE	17	18 x 18 x 12	$108.00	3422-PE	60	24 x 24 x 24	$286.00
3408-PE	25	18 x 18 x 18	$144.00	3422-PP	60	24 x 24 x 24	$616.00
3408-PP	25	18 x 18 x 18	$322.00	3423-PE	75	24 x 24 x 30	$314.00
3409-PE	34	18 x 18 x 24	$158.00	3423-PP	75	24 x 24 x 30	$694.00
3410-PE	6	10 x 14 x 10	$56.00	3424-PE	90	24 x 24 x 36	$400.00
3411-PE	26	16 x 16 x 24	$244.00	3424-PP	90	24 x 24 x 36	$900.00
-	-	-	-	3425-PE	94	30 x 30 x 24	$450.00
3414-PE	12	4 x 24 x 30	$252.00	3426-PE	115	30 x 30 x 30	$508.00
3414-PP	12	4 x 24 x 30	$468.00	3426-PP	115	30 x 30 x 30	$736.00
3415-PE	11	6 x 24 x 18	$238.00	3427-PE	138	30 x 30 x 36	$562.00
3415-PP	11	6 x 24 x 18	$680.00	3427-PP	138	30 x 30 x 36	$1314.00
3416-PE	25	8 x 24 x 30	$280.00	-	-	-	-
3416-PP	25	8 x 24 x 30	$516.00	3429-PE	92	36 x 36 x 18	$720.00
-	-	-	-	3430-PE	42	14 x 24 x 30	$906.00
-	-	-	-	3430-PP	42	14 x 24 x 30	$1530.00

Chemtainer Acid Neutralization Tanks

These tanks have years of proven suitability in handling tough effluents. Our line of polyethylene and polypropylene neutralization tanks are designed to withstand the heat of neutralization and the corrosive attack of acids, alkalies, toxics or other types of chemical wastes.

- **Polyethylene or Polypropylene**
- **Operating temperature 140°F HDPE; 212°F PP**
- **S/S hardware and neoprene fume gasket**
- **Rugged, heavy wall construction**



Part #	Gallon Capacity	Size Dia. x H	Wall Approx. (in.)	PE Price	Part #	PP Price
3432-PE	5	11 x 14	3/16	$298.00	3432-PP	$486.00
3433-PE	15	18 x 15	3/16	$656.00	3433-PP	$912.00
3434-PE	30	18 x 29	1/4	$734.00	3434-PP	$1234.00
3435-PE	55	22 x 36	1/4	$912.00	3435-PP	$1626.00
3436-PE	100	28 x 42	5/16	$1246.00	3436-PP	$2182.00
3437-PE	150	31 x 48	5/16	$1826.00	3437-PP	$2940.00
3438-PE	200	36 x 48	5/16	$1980.00	3438-PP	$3046.00
3439-PE	275	42 x 48	5/16	$2730.00	3439-PP	$4788.00
3440-PE	350	48 x 48	5/16	$2978.00	3440-PP	$5004.00
3441-PE	500	52 x 60	3/8	$5298.00	3441-PP	$8226.00
3442-PE	1200	69 x 84	7/16	$13658.00	-	-
3443-PE	1500	73 x 84	7/16	$18360.00	-	-
3444-PE	2000	84 x 84	7/16	$21812.00	-	-

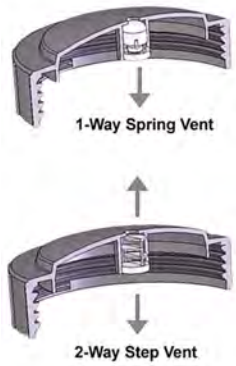
INLETS and OUTLETS are available in threaded, plain or flanged in PE and PP. Prices are per application.

Tank Lids and Accessories

Ace Tank Lids



These durable lids are available in a wide range of sizes from 2" to 22". Most are available with or without venting to suit your applications. Injection molded from polypropylene with U.V. inhibitors ensures long life.



Ace Tank Lids

Size (in.)	Description	Mfg Part #	Price $
2	Spin on Kelch Cap	10631	3.92
3 1/2	Lid and Lanyard Assembly	13108	4.84
4	Center Lid with Air Breather	10529	7.78
5	Spin-on Lid with Spring Vent	13696	5.72
5	Spin-on Lid Non Vented	13748	5.72
5	Spin-on Lid with Step Vent	13709	5.82
5	Hinged Low-Profile	19406	11.33
7	Spin-on Lid with Spring Vent	12414	12.92
7	Spin-on Lid Non Vented	12415	12.92
7	Spin-on Lid with Step Vent	12427	13.11
8	Threaded Lid with Air Breather	10525	15.63
8 / 12	Breather Only	10520	2.96
12	Threaded Lid Non Vented	10526	19.73
12	Threaded Lid Vented	10527	21.62
16	Threaded Lid with Air Breather	10528	27.71
22	Threaded Lid with Air Breather	10530	92.58

Norwesco Tank Lids



Manufactured from high density polyethylene for strength, durability and excellent chemical resistance.

Norwesco Tank Lids

Size (in.)	Description	Mfg Part #	Price $
5	Lid with ball check air vent, with gasket (for tanks manufactured prior to 2/1/00)	60322	11.81
5	Lid with ball check air vent, with gasket	63484	9.08
5	Lid with 2" FTP 9does not include vent cap)	63264	9.44
5	Lid, hinged (for 52 and 68 gallon flat bottom and 110 low profile)	63673	19.95
8	Lid, ring and air vent	60032	21.30
8	Lid with air vent (for select tanks manufactured prior to 2/2/08)	60002	15.27
8	Lid with blue snap-in vent	63480	13.09
16	Lid and ring with 4" center lid/air vent	60038	32.78
16	Lid with 4" center lid/air vent	60011	28.70
16	Lid and ring with blue snap-in vent	63485	30.76
16	Lid and ring with 3" center thread	63868	69.46
16	Lid, ventless with ring	60367	35.20
16	Lid, ventless	60365	29.36
22	Lid and ring with air vent	63679	107.94
22	Lid, ventless with ring	63863	128.57



The hinged lid is manufactured from a co-polymer material for strength, durability and excellent chemical resistance. Our unique locking tab allows you to easily slip a padlock through it and secure your lid from theft or spills. The lid is interchangeable with a standard 16" lid and ring assembly if you choose to replace your existing lid.

Features:

- Easy open/close - opens a full 180 degrees
- Comes complete with a baffle vent assembly which allows for adequate venting when bottom filling your tank
- Unique locking tab
- All parts of lid may be ordered as repair parts

Norwesco Hinged Tank Lids

Size (in.)	Description	Mfg Part #	Price $
16	Hinged lid with ring and vent	62532	93.09
16	Hinged lid with vent assembly without ring	62826	67.29
16	Hinged ventless lid with ring	63390	92.14
22	Hinged lid with ring and vent	63874	291.56
	Vent assembly	62827	33.98
	Ring assembly	62828	33.63
	Hinge assembly	62829	5.09
	EPDM gasket	63391*	39.31
	EPDM O-ring	62830**	26.36
	Neoprene O-ring	62831	26.36

* Lid with red center cap or ventless lid requires this gasket.
** Lid with black center cap requires this O-ring.





Norwesco Tank Accessories

Description	Mfg Part #	Price $
Strainer basket for 16" fill opening (7" depth)	67374	74.62
Poly welding gun and rod	60221	235.19
Poly welding rod, 30 feet	61879	60.78

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Tank Lids and Accessories

Banjo Tank Lids and Accessories



6" IBC Solid Spray Tank Lids

Gasket	Mfg Part #	Price $
Santoprene®	TL650S	11.39
EPDM	TL650E	12.45



6" IBC Spray Tank Lids with Unvented 2" Plug

Gasket	Mfg Part #	Price $
Santoprene®	TL651S	14.88
EPDM	TL651E	13.45



6" IBC Spray Tank Lids with Vented 2" Plug

Gasket	Mfg Part #	Price $
Santoprene®	TL652S	15.81
EPDM	TL652E	17.10



6" EPA Spray Tank Lids with Vented 2" Plug

Gasket	Mfg Part #	Price $
EPDM	TL652EPA	16.56



5 1/2" Lids for Spray Tanks

Description	Mfg Part #	Price $
5 1/2" Non-Vented Tank Lid	TL600	7.59
5 1/2" Vented Tank Lid	TL600C	12.66



2" Vented & Non- Vented Bung Plugs

Description	Mfg Part #	Price $
EPA plug with Non-Removable Vent	231EPA	6.16
2" MPT Solid Bung with EPDM Gasket	231MPT	5.35
2" MPT Solid Bung with Buna Nitrile Gasket	231MPTBN	6.42
2" Vented Plug with EPDM Gasket	TL6531	11.94



Polypropylene Siphon Tubes

Size (in.)	Mfg Part #	Price $
2	ST200	17.13
3	ST300	25.33

Features:
- Full flow size.
- Long length.
- Male NPT threads.

Banjo Buttress Adapters



2" Buttress X 2" Male NPT

Description	Gasket	Mfg Part #	Price $
2" Buttress x 2" Male NPT Threads w/Gasket	Santoprene®	TA283	17.05



2" Buttress X 2" Male Adapter

Description	Gasket	Mfg Part #	Price $
2" Buttress x 2" Male Adapter QDC w/Gasket	Santoprene®	TA283QD	13.28

All prices subject to change without notice.

GF Heat Exchangers

CALORPLAST Immersion & Tube Plate Heat Exchangers



For Heating or Cooling of Corrosive Media and High Purity Fluids

Advantages of CALORPLAST Heat Exchangers

• Chemical inertness. • Large heat transfer surface in a confined space. • All-plastic design with no elastomers, seals or mechanical joints which might otherwise limit the capability of the parent material of construction. • Plastic design eliminates effect of stray current in plating applications. • Open flow tube bundle —tubes do not touch. • Modular construction enables adaptability to particular vessel geometry. • Exceptionally low fouling factors. • Tough, impact resistant tubes, not capillary-type tubing. • Low pressure drops enhancing turbulent flow resulting in maximized heat transfer capability. • Handle steam up to 35 psig. • Repairable at plant site with a hot air welding gun.

Material Characteristics	Units of Measure	PVDF	PP
Density	g / cm³	1.78	0.91
Max. Working Temperature	°F	281	190
Melting Temperature	°F	352	329
Coefficient of Thermal Expansion	10^{-5} / °F	6.7	8.9
Thermal Conductivity at 73°F	$\frac{\text{BTU}}{\text{HR ft.}^2\ °F / \text{ft.}}$	0.104	0.127
Toxicity	—	None	None
Tensile Strength	PSI	8000	4700
Compressive Modulus	PSI	345,000	—
Modulus of Elasticity in Tension	PSI	320,000	220,000

Mechanical Strength

	Temperature of Medium	°F	68	104	140	176	212	248	281
PVDF	Operating Pressure	PSI	232	174	145	109	87	65	51
	Burst Pressure	PSI	1160	798	725	580	435	326	253
PP	Operating Pressure	PSI	116	87	58	29	29	—	—
	Burst Pressure	PSI	362	261	203	116	87	—	—

7

DATA SHEET

To receive a quote, copy this page, fill in information, and fax to ALSCO., Fax (770) 739-7549

1) TANK: Dimensions

length: _____ft
width (front): _____ ft
height: _____ft
bath level: _____ ft
volume: _____ gal
Insulation _____ No ____ Yes
thickness _____ inches
Open top _____ No ____ Yes
tank fluid: _____
specific gravity of tank fluid: _____g / cm³
Air sparging: _____ No _____ Yes
rate: _____ cfm
On which tank-wall can the heat exchanger be placed?
1 length wall _____ both fronts _____
both length walls _____ floor _____
1 front _____

2) HEATING

heating capacity _____ BTU/hr
heating media: saturated steam _____°F _____psi
water _____°F / _____ °F _____psi
_____ °F / _____ °F _____psi
constant tank temperature _____ °F
heating up the tank from _____ °F to _____°F
heat up time _____hours

3) COOLING

cooling capacity _____BTU/h _____Amps _____ V
% of time at full current _____
cooling media: water _____ °F/ _____ °F _____psi
brine _____ °F/ _____ °F _____psi
cooling media volume _____ gal/ min
constant tank temperature _____ °F
starting tank temperature _____ °F
cool down time _____ hours

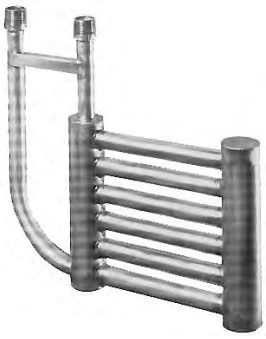
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ALSCO™ Heat Exchangers & Temperature Controls

Electric Immersion Heaters, Heat Exchangers and Temperature Controls










Heater Types

- **Grounded PTFE Heaters**
- **Quartz Heaters**
- **Metal Over the Side Heaters**
- **L-Shaped Heaters**
- **Tubular Heaters**
- **Screw Plug Heaters**

Accessories

- **Solenoid Valves**
- **Amp-Hour Totalizing Device**
- **Capacitive Level Controls**
- **Digital Timers**
- **Liquid Level Controls**
- **Thermowells**
- **PVC Conduit and Fittings**
- **Relays**
- **Heater Guards for Quartz and PTFE Heaters**

WARNING: Electric immersion heaters will ignite many plastic tanks such as Polypropylene and Polyethylene and subject personnel to shock hazard if not properly installed and maintained.

SAFETY CONTROLS: The manufacturer vigorously recommends and urges the use of over temperature devices and level controls on all electric heater installations. Any immersion heater unequipped with these safety devices represents a fire hazard when exposed to liquid level fluctuations or other hazardous conditions.

DATA SHEET for Ordering

TANK: Dimensions

length: _____ft **width (front):** _____ft **height:** _____ft

bath level: _____ ft **Volume:** _____gal

Insulation _____ No _____ Yes **Thickness** ____inches

Chemical Solution: _____

Style of Heater: Horizontal _____ Vertical _____

Controller Type: Digital Indicating _____

Analog Indicating _____

Non-indicating _____

Thermal Protection: No _____ Yes _____

Voltage: _____ Volts **Phase:** _____ (1 or 3)

HEATING:

Heating capacity _____ BTU/hr

Constant tank temperature _____ °F

Heating up the tank from _____ °F to _____°F

Heat up time _____hours

7

Duradek® Fiberglass Grating



High Strength Fiberglass Grating

DURADEK® fiberglass grating solves engineer's problems with corrosion in the industrial environments; often outlasts steel twenty to one. Ideal for grating and walkway systems.

Features:

- Corrosion Resistant
- Structurally Strong
- High Impact Strength
- High Fatigue Strength
- Lightweight
- Anti- Skid
- Easy to Fabricate
- Low Maintenance
- Non- Sparking
- Gray or yellow

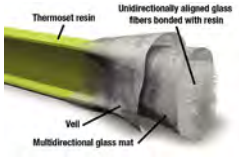
Applications:

- General Industry
- Plating Operations
- Transportation
- Power Plants
- Pulp & Paper Plants
- Mining
- Chemical Plants
- Marine/Offshore
- Fire Equipment
- Agricultural
- Wastewater Plants
- Food & Beverage

Materials of Construction

Pultrusion

Pultrusion process pulls continuous glass fibers, continuous glass fiber mat, and plastic fiber veil through a liquid resin bath. It is then pulled through a heated shaping die where the resin is solidified, producing a continuous, solid part. The continuous glass fibers resist the stresses of tension, compression and bending. A continuous glass fiber mat surrounds the surfaces to prevent lineal splitting and chipping.



Surface Veil

The surface veil is an integral part and enhances corrosion and UV resistance. It is made from material similar to the resin used in manufacturing the part, and pushes the glass fibers away from the surfaces of each part, producing a 100% thick, resin surface.

UV Coatings

Offers extremely long life, even when exposed to salts, acids, and caustics. However, ultraviolet radiation found in sunlight can degrade exposed resin surfaces. UV inhibitors are added to the resin at the time of manufacture and, in most application provide more than adequate UV protection.

Resins and Colors

Self extinguishing with standard colors of yellow and gray.
Fire Retardant Vinyl Ester for severe corrosion.

Shapes and Sizes

Three shapes and sizes: 1" deep I-bar, 1.5" deep-bar, and 2" deep T-bar. These shapes are assembled into 12 panel sizes. **Unique cross-rod and fixed-spacer assembly forms DURADEK® bearing bar into a strong and unified panel.** This system allows grating to be cut and fabricated like a solid sheet. Can be manufactured in custom resins, colors, bar spacings and bar profiles to customer's need.

Polyester Grating 6" on-center cross rods (Yellow) Vinylester available upon request

6"Cross Rod on-center	Material	Thickness W x L (in)	Width of Top Flange	Width of Open Space	% Open Area	Approx. Wt. lbs / sq. ft.	Part #	Price Per Sheet
 I- 6000	Polyester	1 x 36 x 120	0.6"	0.9"	60	2.3	8000	$ 537.66
	Polyester	1 x 36 x 240	0.6"	0.9"	60	2.3	8001	1075.32
	Polyester	1 x 48 x 120	0.6"	0.9"	60	2.3	8002	716.88
	Polyester	1 x 48 x 240	0.6"	0.9"	60	2.3	8003	1433.76
	Polyester	1 x 60 x 120	0.6"	0.9"	60	2.3	8004	896.10
	Polyester	1 x 60 x 240	0.6"	0.9"	60	2.3	8005	1792.20
	Polyester	1 1/2 x 36 x 120	0.6"	0.9"	60	3.3	8006	594.31
	Polyester	1 1/2 x 36 x 240	0.6"	0.9"	60	3.3	8007	1187.59
	Polyester	1 1/2 x 48 x 120	0.6"	0.9"	60	3.3	8008	792.07
	Polyester	1 1/2 x 48 x 240	0.6"	0.9"	60	3.3	8009	1584.14
	Polyester	1 1/2 x 60 x 120	0.6"	0.9"	60	3.3	8010	989.83
	Polyester	1 1/2 x 60 x 240	0.6"	0.9"	60	3.3	8011	1979.66
 T- 5000	Polyester	2 x 36 x 120	1.0"	1.0"	50	3.1	8012	635.51
	Polyester	2 x 36 x 240	1.0"	1.0"	50	3.1	8013	1271.02
	Polyester	2 x 48 x 120	1.0"	1.0"	50	3.1	8014	846.66
	Polyester	2 x 48 x 240	1.0"	1.0"	50	3.1	8015	1694.35
	Polyester	2 x 60 x 120	1.0"	1.0"	50	3.1	8016	1058.84
	Polyester	2 x 60 x 240	1.0"	1.0"	50	3.1	8017	2117.68

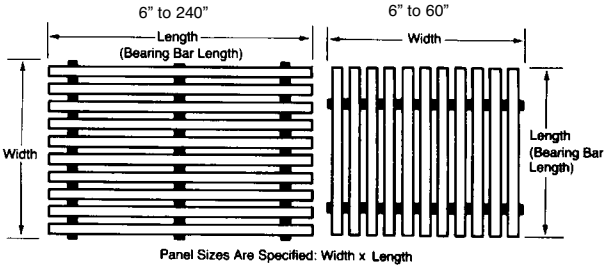
NOTE: Above grating is only a representative of stock. Custom grating, most any size available.

Ordering DURADEK®

Because grating is built from component parts, you can order grating that exactly meets your needs without waste. No need to cut required sizes from standard panels and then pay for what is left on the floor. When ordering make sure the bearing bars in the panel are oriented in the correct direction for the application. Bearing bars should traverse from support to support. Cross rods are not intended to be applied in the span direction. The drawings shown will help you specify the width and length of panels. UV coating is optional on all grating series.

NOTE: Accessories are listed on the following page.

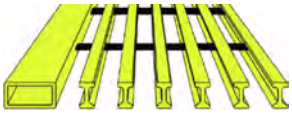
Maximum Panel Size 60" x 240"



Panel Sizes Are Specified: Width x Length

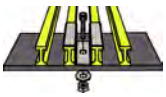
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Duradek® Fiberglass Grating



Stair Treads and Landings (Gray or Yellow)

6" Cross Rods	Material	Thickness W x L (in)	Approx. Wt. Lbs / Ln. Ft.	1/8" or Less Deflection	1/4" or Less Deflection	Part #	Price Per Piece
I-6000	Polyester	1 x 11 x 144	2.6	29"	37"	8021	$ 342.28
I-6000	Polyester	1 1/2 x 11 x 144	3.2	40"	52"	8022	$ 361.29
T-5000	Polyester	2 x 12 x 144	3.3	47"	59"	8023	$ 413.59



Panel Hold Downs (Price Does Not Include Bolts)

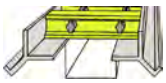
	Approx. Lbs.	Part #	Price
S.S. Insert Hold Down, all Series (Specify I-6000 or T-6000)	.02	8024	$ 1.97
S.S. Saddle Clip Only, I-6000 -1"	.08	8025	3.04
S.S. Saddle Clip Only, I-6000 -1 1/2"	.09	8026	3.42
S.S. Saddle Clip Only, T-5000 2"	.13	8027	3.86
1/4" - 20 x 1 1/4" S.S. Socket Head Cap Screw with Nut & Washer for use with Hold Downs	.03	8028	1.48



Panel Connectors Assembly *

S.S. Insert Panel Connector, all series	.24	8029	$ 22.14
S.S. Saddle Clip Panel Connector, I-6000 -1"	.19	8030	12.87
S.S. Saddle Clip Panel Connector, I-6000 -1 1/2"	.20	8031	14.37
S.S. Saddle Clip Panel Connector, T-5000 2"	.21	8032	14.91

* Assembly Includes Hold Down (s), Bolt (s) and Bottom Bar



Fiberglass Curb Angle

Color: Gray
Resin: Fire Retardant, VE
UV Inhibited with a Veil
Stock length: 20 Feet

	Lbs. Ln. Ft.	Part #	Price Ln. Ft.
1" x 1 1/2"	0.83	8033	$ 8.19
1 1/2" x 1 1/2"	0.93	8034	8.79
2" x 1 1/2"	1.03	8035	11.05

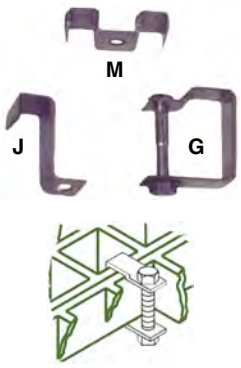
Miscellaneous

	Approx. Lbs.	Part #	Price
Sealing Kit *	1.64	8036	$ 39.03
7" Tungsten Carbide Tip Circular Blade	.64	8037	105.08
Tungsten Carbide Tip Saber Saw Blade	.03	8038	8.51

* Sealing Kit Contents: (1 Pint steel can 1/2 full with Part A), (1 Pint steel can 1/2 full with Part B), (4- steel brushes 1/2 x 6), (4- wood stir sticks 1/4 x 4), (2- 8 ounce plastic beakers)

8

CENTURION™ Clips



All grating should be fastened down with a sufficient number of clips to resist movement of the grating or edges raising up and presenting a tripping hazard.

Features:

- Made exclusively of 316 Stainless Steel
- The "M" and "J" clips have a minimum of 1/4" opening for fasteners or anchors of your choice.
- The "G" clip which is used to hold two panels together comes with a 1/4" hex head bolt and welded nut for easy installation.

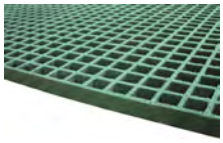
NOTE: Price On Application

Clip	Grate Height	Bars Center to Center	Grate Pattern	Mfg Part #
G	1 in	N/A	1 in	42146-000
G	1.5 in	N/A	1.5 in	42147-000
G	2 in	N/A	2 in	42178-000
J	1 in	N/A	1 in	42142-000
J	1.5 in	N/A	1.5 in	42143-000
J	2 in	N/A	2 in	42145-000
M	N/A	1 in	1 x 4 in	42140-000
M	N/A	1 in	1 x 1 in	42150-000
M	N/A	1.5 in	1.5 x 1.5 in	42141-000
M	N/A	1.5 in	1.5 x 6 in	42141-000
M	N/A	2 in	2 x 2 in	42144-000
M	1 in	1.5 in	1 in	42151-000
M	1.5 in	1.5 in	1.5 in	42152-000

Molded Fiberglass Grating

CENTURION™ Molded Grating

1" Thick - Square Mesh



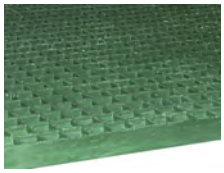
1" Thick - 1" x 4" Mesh



1.25" Thick - Square Mesh



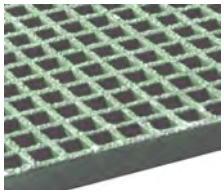
1.5" Thick - Square Mesh



1.5" Thick - 1.5" x 6" Mesh



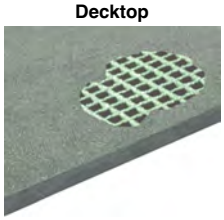
2" Thick - Square Mesh



1/2" x 1/2" ADA Mesh



Decktop



Flat Sheet



CENTURION™ Molded Grating is a hand lay-up composite of high resin content and continuous glass fiber strand that is thoroughly wetted out and woven through an open mold. This method provides CENTURION™ Molded Grating with high corrosion resistance and good strength.

CENTURION™ Molded Grating is an excellent alternative to metal grating where rust, corrosion, or chemical attack are problems. With proper resin selection, CENTURION™ Molded Grating is an economical option in a wide range of corrosive environments.

Option: Grating can be cut to size.

Pattern	Thickness	Resin	Color	Surface	Panel Size	Mfg Part #
1" Thick Fiberglass Grating - Square Mesh						
1.5 x 1.5 in	1 in	GP	Green	Grit	3 x 10 ft	70011-301
1.5 x 1.5 in	1 in	GP	Green	Grit	4 x 12 ft	70011-481
1.5 x 1.5 in	1 in	GP	Dark Gray	Grit	3 x 10 ft	70017-301
1.5 x 1.5 in	1 in	GP	Dark Gray	Grit	4 x 12 ft	70017-481
1.5 x 1.5 in	1 in	GP	Light Gray	Grit	4 x 12 ft	70012-481
1.5 x 1.5 in	1 in	GP	Yellow	Grit	3 x 10 ft	70013-301
1.5 x 1.5 in	1 in	GP	Yellow	Grit	4 x 8 ft	70013-321
1.5 x 1.5 in	1 in	GP	Yellow	Grit	4 x 12 ft	70013-481
1.5 x 1.5 in	1 in	ISO	Green	Grit	4 x 12 ft	70111-481
1.5 x 1.5 in	1 in	VE	Light Gray	Grit	4 x 12 ft	70212-481
1.5 x 1.5 in	1 in	VE	Orange	Meniscus	4 x 12 ft	70204-481
1" Thick Fiberglass Grating - 1" x 4" Mesh						
1 x 4 in	1 in	GP	Green	Grit	4 x 12 ft	70011-484
1.25" Thick Fiberglass Grating - Square Mesh						
1 x 1 in	1.25 in	ISO	Green	Grit	4 x 12 ft	70511-481
1 x 1 in	1.25 in	ISO	Gray	Grit	4 x 12 ft	70512-481
1 x 1 in	1.25 in	VE	Gray	Grit	4 x 12 ft	70612-481
1.5" Thick Fiberglass Grating - Square Mesh						
1.5 x 1.5 in	1.5 in	GP	Green	Grit	3 x 10 ft	70011-303
1.5 x 1.5 in	1.5 in	GP	Green	Grit	4 x 8 ft	70011-323
1.5 x 1.5 in	1.5 in	GP	Green	Grit	4 x 12 ft	70011-483
1.5 x 1.5 in	1.5 in	GP	Green	Grit	5 x 10 ft	70011-503
1.5 x 1.5 in	1.5 in	GP	Blue	Grit	4 x 8 ft	70029-323
1.5 x 1.5 in	1.5 in	GP	Dark Gray	Grit	3 x 10 ft	70017-303
1.5 x 1.5 in	1.5 in	GP	Dark Gray	Grit	4 x 8 ft	70017-323
1.5 x 1.5 in	1.5 in	GP	Dark Gray	Grit	4 x 12 ft	70017-483
1.5 x 1.5 in	1.5 in	GP	Dark Gray	Grit	5 x 10 ft	70017-503
1.5 x 1.5 in	1.5 in	GP	Dark Gray	Grit	4 x 12 ft	70007-483
1.5 x 1.5 in	1.5 in	GP	Light Gray	Grit	3 x 10 ft	70012-303
1.5 x 1.5 in	1.5 in	GP	Light Gray	Grit	4 x 12 ft	70012-483
1.5 x 1.5 in	1.5 in	GP	Light Gray	Grit	4 x 12 ft	70002-483
1.5 x 1.5 in	1.5 in	GP	Yellow	Grit	3 x 10 ft	70013-303
1.5 x 1.5 in	1.5 in	GP	Yellow	Grit	4 x 8 ft	70013-323
1.5 x 1.5 in	1.5 in	GP	Yellow	Grit	4 x 12 ft	70013-483
1.5 x 1.5 in	1.5 in	ISO	Green	Grit	4 x 12 ft	70111-483
1.5 x 1.5 in	1.5 in	VE	Light Gray	Grit	3 x 10 ft	70212-303
1.5 x 1.5 in	1.5 in	VE	Light Gray	Grit	4 x 12 ft	70212-483
1.5 x 1.5 in	1.5 in	VE	Orange	Grit	4 x 12 ft	70214-483
1.5 x 1.5 in	1.5 in	VE	Light Gray	Grit	4 x 12 ft	70202-483
1.5" Thick Fiberglass Grating - 1.5" x 6" Mesh						
1.5 x 6 in	1.5 in	GP	Green	Grit	4 x 12 ft	70011-486
2" Thick Fiberglass Grating - Square Mesh						
2 x 2 in	2 in	GP	Light Gray	Grit	4 x 12 ft	70012-482
2 x 2 in	2 in	GP	Dark Gray	Grit	4 x 12 ft	70017-482
2 x 2 in	2 in	VE	Light Gray	Grit	4 x 12 ft	70212-482
1/2" x 1/2" ADA Mesh Fiberglass Grating						
0.5 X 0.5 in	1.5 in	GP	Gray	Fine Grit	4 x 12 ft	70812-483
Decktop Grating						
None	1.625 in	ISO	Green	Grit	4 x 12 ft	70111-257
Flat Sheet						
None	.25 in	ISO	Green	Grit	4 x 8 ft	70111-250

NOTE: Price On Application

Resin Systems Available:

GP - General Purpose (Orthophthalic Polyester):
An economical general purpose resin system for grating applications requiring good strength with minimal contact with harsh chemicals.

ISO (Isophthalic Polyester):
A resin system offering an intermediate level of chemical resistance in moderately corrosive environments. A recommended material for applications involving splash or spill contact with chemicals.

VE - Vinyl Ester:
Provides the maximum level of corrosion resistance to aggressive chemical environments. Use in applications where contact with harsh chemicals, caustics or bleach is frequent.

Fire Retardant:
All Standard Resin Systems noted above are fire retardant to a Class I flame spread of 25 or less based on ASTM E-84 Testing. Verification of testing is available if needed.

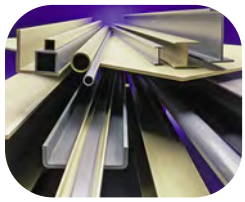
USDA Certified:
The General Purpose and ISO resin systems can be formulated in such fashion to be certified under USDA requirements. Certification by an independent laboratory is available if required. This special formulation is fire retardant, but does not meet Class I requirements.

UV Resistance:
All of our grating has a UV additive to limit degradation from outside exposure.

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com

ALSCO™ EXTREN® Fiberglass Structural Shapes, Rod, & Plate

Offered in three series designed for different environments and applications



Series 500 (Olive Green) An all-purpose series utilizing a polyester resin system.
Series 525 (Slate Gray) An all-purpose series utilizing a fire retardant polyester resin system with a UV inhibitor.
Series 626 (Beige) A premium series— both fire retardant and highly corrosion resistant — utilizing a vinyl ester resin system with a UV inhibitor.

Features:

- Corrosion Resistant
- Non-Conductive - Thermally and Electrically
- Non-Magnetic -Electromagnetic Transparency
- Light Weight — Weighs 80% less than steel
- High Strength
- Dimensional Stability
- Low Maintenance • Custom Colors•

Square Tube

Size (ins.) A x Thick.	Part # Series 500	Price per ft.	Part # Series 525	Price per ft.	Part # Series 625	Price per ft.	Lbs. Lin. ft.
1 x 1/8	8118-500	2.29	8118-525	2.70	8118-625	3.24	.32
1 1/2 x 1/8	8119-500	3.25	8119-525	3.78	8119-625	4.54	.50
2 x 1/8	8120-500	4.40	8120-525	4.92	8120-625	5.87	.74
2 x 1/4	8121-500	6.25	8121-525	7.60	8121-625	7.78	1.40
3 x 1/4	8122-500	9.82	8122-525	11.41	8122-625	12.85	2.20
4 x 1/4	8123-500	11.57	8123-525	15.48	8123-625	17.00	3.08

Round Tube

Size (ins.) A x Thick.	Part # Series 500	Price per ft.	Part # Series 525	Price per ft.	Part # Series 625	Price per ft.	Lbs. Lin. ft.
1 x 1/8	8124-500	3.64	8124-525	3.74	8124-625	3.70	.25
1 1/4 x 1/8	8125-500	3.21	8125-525	3.49	8125-625	3.44	.32
1 1/2 x 1/8	8126-500	3.50	8126-525	4.01	8126-625	4.09	.45
1 1/2 x 1/4	8127-500	5.58	8127-525	5.91	8127-625	6.53	.79
2 x 1/8	8128-500	3.77	8128-525	4.49	8128-625	4.96	.60
2 x 1/4	8129-500	7.09	8129-525	7.57	8129-625	8.52	1.12
2 1/2 x 1/4	8130-500	7.81	8130-525	8.37	8130-625	10.30	1.70
3 x 1/4	8131-500	9.32	8131-525	10.15	8131-625	12.02	1.70

Equal Leg Angles

Size (ins.) A x Thick.	Part # Series 500	Price per ft.	Part # Series 525	Price per ft.	Part # Series 625	Price per ft.	Lbs. Lin. ft.
1 x 1/8	8077-500	2.16	8077-525	2.25	8077-625	2.30	.17
1 1/4 x 3/16	8078-500	3.09	8078-525	3.19	8078-625	3.13	.35
1 1/2 x 3/16	8079-500	2.62	8079-525	2.92	8079-625	3.48	.41
1 1/2 x 1/4	8080-500	3.27	8080-525	3.48	8080-625	3.76	.50
2 x 3/16	8081-500	3.12	8081-525	3.40	8081-625	4.55	.56
2 x 1/4	8082-500	3.35	8082-525	4.04	8082-625	4.82	.73
3 x 1/4	8083-500	5.12	8083-525	5.94	8083-625	6.70	1.13
3 x 3/8	8084-500	7.49	8084-525	8.81	8084-625	11.02	1.66
4 x 1/4	8085-500	6.44	8085-525	7.98	8085-625	9.96	1.54
4 x 3/8	8086-500	9.39	8086-525	11.64	8086-625	13.83	2.31
4 x 1/2	8087-500	12.59	8087-525	13.63	8087-625	17.74	2.86
6 x 1/2	8088-500	24.54	8088-525	27.35	8088-625	31.26	4.64

I-Beams

Size (ins.) Ax BxThick.	Part # Series 500	Price per ft.	Part # Series 525	Price per ft.	Part # Series 625	Price per ft.	Lbs. Lin. ft.
3x1 1/2x1/4	8089-500	6.23	8089-525	7.02	8089-625	8.26	1.11
4 x 2 x 1/4	8090-500	8.76	8090-525	8.88	8090-625	9.75	1.48
8 x 4 x 3/8	8091-500	25.29	8091-525	26.14	8091-625	34.19	4.61

Wide Flange Beams

Size (ins.) A x Thick.	Part # Series 500	Price per ft.	Part # Series 525	Price per ft.	Part # Series 625	Price per ft.	Lbs. Lin. ft.
3 x 1/4	8092-500	10.07	8092-525	10.69	8092-625	10.97	1.69
4 x 1/4	8093-500	12.18	8093-525	12.88	8093-625	14.63	2.22
6 x 1/4	8094-500	19.28	8094-525	20.45	8094-625	24.84	3.52
6 x 3/8	8095-500	28.29	8095-525	33.04	8095-625	33.71	5.13
8 x 3/8	8096-500	40.28	8096-525	42.82	8096-625	48.20	6.97

Channels

Size (ins.) AxBx Thick.	Part # Series 500	Price per ft.	Part # Series 525	Price per ft.	Part # Series 625	Price per ft.	Lbs. Lin. ft.
2x9/16x1/8	8110-500	2.61	8110-525	2.76	8110-625	2.73	.26
3x7/8x1/4	8111-500	4.22	8111-525	4.67	8111-625	5.22	.77
4x1 3/8x3/16	8112-500	4.45	8112-525	4.74	8112-625	6.54	.94
4x1 1/8x1/4	8113-500	4.58	8113-525	5.34	8113-625	7.23	1.11
5x1 3/8x1/4	8114-500	5.97	8114-525	7.75	8114-625	9.62	1.40
6x1 5/8x1/4	8115-500	7.21	8115-525	7.80	8115-625	9.71	1.68
8x2 3/16x3/8	8116-500	16.02	8116-525	18.70	8116-625	20.78	3.41
*10x2 3/4x1/2	8117-500	26.54	8117-525	28.46	8117-625	35.10	5.50

*Stocked in 24 foot length only.

Plate (Flat Sheet)* 48"x 96"

* Grit surface avail.

Size(in.) Thick.	Part # Series 500	Price per sheet	Part # Series 525	Price per sheet	Part # Series 625	Price per sheet	Lbs./ Sheet
1/8	8138-500	228.25	8138-525	261.49	8138-625	282.91	45.12
3/16	8139-500	259.69	8139-525	320.00	8139-625	400.32	54.72
1/4	8140-500	304.88	8140-525	397.86	8140-625	512.25	74.88
3/8	8141-500	482.45	8141-525	591.63	8141-625	752.00	113.28
1/2	8142-500	616.76	8142-525	754.92	8142-625	934.28	149.76
3/4	8143-500	912.30	8143-525	1097.16	8143-625	1358.36	222.0

Round Rod

Size (in.) A	Part #	Price / ft. Thermal Cure Clear	Lbs./ Lin. ft.
1/4	8097	.45	.043
3/8	8098	1.20	.097
1/2	8099	1.34	.173
5/8	8100	3.79	.268
3/4	8101	4.98	.387
13/16	8102	3.23	.454
7/8	8103	3.73	.527
1	8104	6.28	.688
1 1/8	8105	5.84	.869
1 1/4	8106	6.69	1.100
1 1/2	8107	9.66	1.520
1 7/8	8108	11.39	2.040
2	8109	17.99	2.560

Square Bar

Size (in.) A	Part #	Price / ft. Thermal Cure Clear	Lbs./ Lin. ft.
1/2	8132	5.41	.219
5/8	8133	4.71	.342
3/4	8134	5.14	.493
1	8135	8.57	.870
1 1/4	8136	8.50	1.310
1 1/2	8137	12.31	1.830

EPOXY ADHESIVE KITS

Quart Kit - (Epoxy resin & Hardener)
Part # 8144 ..... POA
1/2 Gallon Kit - (Epoxy Resin & Hardener)
Part # 8145 ..... $ 220.76

ALSCO™ Fiberglass Hand Rail Systems

DURADEK® SAFRAIL Fiberglass Handrail System

Easy Do-It-Yourself Installation (Field Fabrication)

Square Rail System



Features

SAFRAIL fiberglass handrail is an industrial / commercial railing system for stair rails, platform / walkway handrails and guardrails.

- Structurally Strong
- Corrosion Resistance
- High Impact Resistance
- Low Thermal Conductivity & Maintenance
- Light Weight
- Non-Conductive
- Easy To Field Fabricate
- Resistance to UV

Materials of Construction

- Continuous glass fibers
- Synthetic surfacing veil
- Two continuous strand glass mats
- Vinyl Ester resin
- U.V. coating

Applications

- Industrial
- Marine
- Chemical
- Oil and Gas
- EMI / AFI Testing
- Radar
- Pollution Control
- Power Plants
- Pulp and Paper
- Offshore
- Recreation
- Food Processing
- Water/ Wastewater
- Transportation
- Plating
- Electrical

Round Rail System



Other Safrail™ Styles and Options

- **Round Handrail System** - Food Processing Facilities, Platforms & Walkways, Heavy Industrial Plants
- **Two-Color Handrail** - Half-rounded Top Rail used in Hotels
- **Heavy Duty Handrail** - 2" x 1/4" Extren® Square Tubing
- **Vertical Handrail** - Designed for Wastewater Treatment Plants
- **Architectural Handrail** - Attractive, custom design railings, used for hotels balconies, swimming pool enclosures, amusement parks, beach houses and other applications

Basic SAFRAIL Components (Square Style Priced and Shown, other styles available)



Post or Rail
2"x 2"x .156" Yellow Vinyl Ester @ 240"
Part # 6900
$ 5.50 / Ft.



90° Corner Plug
Yellow
Part # 6904
$ 15.21 / Ea.



Kickplate
4" x .125" wall Yellow Vinyl Ester @ 240"
Part # 6901
$ 5.06 / Ft.



Split Tube Connector
8" lengths
Part # 6905
$ 7.42 / Ea.



End Caps
4"square x 3/4" Black (for capping tubes)
Part # 6902
$ 2.52 / Ea.



Square Plug
6"
Part # 6906
$ 8.92 / Ea.



Adjustable Corner Assembly
(Total Assembly)
Part # 6903
$ 15.92 / Ea.



Post Base
FRP Base Plate with Post - Height 40"
Part # 6907
$ 75.19 / Ea.

Supplementary Components

Part #	Description	Price
6908	Kickplate Splice	$ 6.56
6909	Kickplate 90° Splice	6.85
6910	Nylon Rivets	.47
6911	1/8" x 1 1/2" Tension Pins	.45
6912	Epoxy Kits - 1 Pint Clear	144.20
6913	Core Drill	372.39

Installation Instructions:

1. Cut components to length and miter where necessary.
2. Locate and drill holes for split tube connector. Must use 1.68" dia. core drill. (available from ALSCO)
3. Apply recommended epoxy adhesive to connectors and inside tube.
4. Press together. Wipe off excess adhesive. Optional: 1/8" tension pins may be used at connections for field fabrication.

NOTE: Joints must be immobilized until cured. The recommended temperature for epoxy cure is 60°F or above. Failure to use these installation and fabrication methods, including recommended epoxy adhesive and 1.68" dia. core drill, may cause failure.

ALSCO Industrial Products, Inc. · 1265 Mount Vernon Rd. · Lithia Springs, GA. 30122 · FAX 770-739-7549
770-941-3030 · 1-800-849-3030 · www.alscoplastics.com · 021618

Fiberglass Channel Framing



Aickinstrut™ Fiberglass Channel Framing System

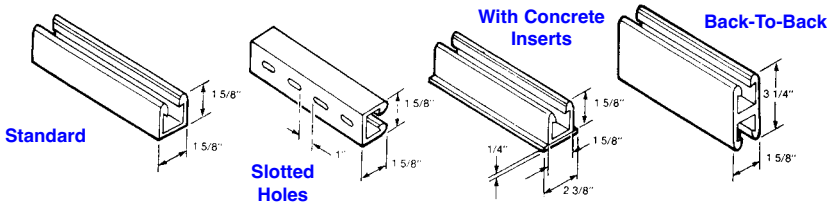
The reinforced plastic strut system that does everything that steel does *...except corrode!* It has been used in thousands of corrosive applications in many industries. Aickinstrut's corrosion resistant construction offers the following advantages:

- Lightweight
- Easy to cut
- Corrosion Resistant
- Easy to Assembly
- Non-Conductive
- Maintenance Free
- Non-Magnetic
- Complete System
- Fire Retardant

Applications:

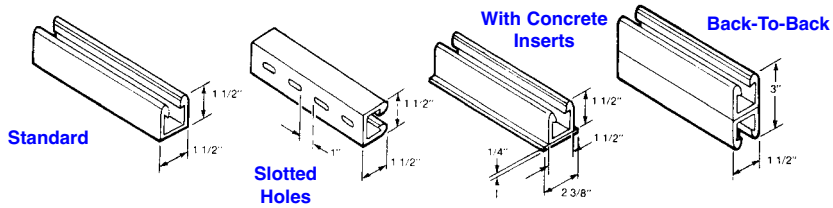
- Pulp and Paper Plants
- Chemical Processing Plants
- Semi- Conductor Plants
- Plating Shops
- Printed Circuit Industry
- Pollution Control
- Food Processing Plants
- Water / Wastewater Plants
- Power Plants

Fiberglass (Polyester & Vinylester) & PVC Channel Framing
1 5/8" Heavy Duty 2000 Series



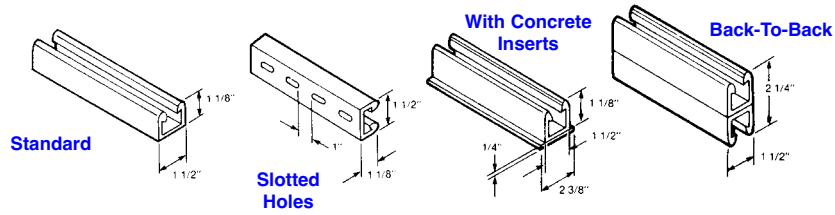
Part #	Description	Price /LF
8640	Single Polyester - Gray	$ 6.42
8641	Double Polyester - Gray	12.68
8642	Slotted Polyester - Gray	9.60
8643	Concrete Insert Poly. - Gray	POA
8644	Single Vinylester - Beige	8.22
8645	Double Vinylester - Beige	15.65
8646	Slotted Vinylester - Beige	12.47
8647	Concrete Insert Viny. - Beige	POA
8648	Single PVC - Gray	17.24
-	-	-
8650	Slotted PVC - Gray	18.57
8651	Concrete Insert PVC - Gray	16.97

Fiberglass (Polyester & Vinylester) Channel Framing
1 1/2" Medium Duty 1500 Series



Part #	Description	Price /LF
8652	Single Polyester - Gray	$ 6.10
8653	Double Polyester - Gray	POA
8654	Slotted Polyester - Gray	9.50
8655	Concrete Insert Poly. - Gray	POA
8656	Single Vinylester - Beige	7.16
8657	Double Vinylester - Beige	POA
8658	Slotted Vinylester - Beige	10.34
8659	Concrete Insert Viny. - Beige	POA

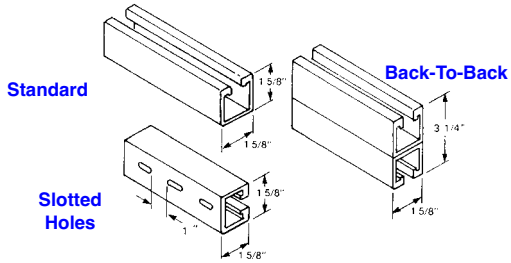
Fiberglass (Polyester & Vinylester) & PVC Channel Framing
1 1/8" Light Duty 1000 Series



Part #	Description	Price /LF
8660	Single Polyester - Gray	$ 4.77
8661	Double Polyester - Gray	POA
8662	Slotted Polyester - Gray	8.54
8663	Concrete Insert Poly. - Gray	POA
8664	Single Vinylester - Beige	6.10
8665	Double Vinylester - Beige	POA
8666	Slotted Vinylester - Beige	9.50
8667	Concrete Insert Viny. - Beige	POA
8668	Single PVC - Gray	15.65
-	-	-
8670	Slotted PVC - Gray	15.91
-	-	-

SST Fiberglass (Polyester & Vinylester) Channel Framing
Designed to Accommodate Metallic Pipe Straps & Clamps

Note: SST Channel will not work with the Aickinstrut pipe clamps and channel nuts.

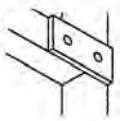


Part #	Description	Price /LF
8672	Single Polyester - Gray	$ 6.52
8673	Double Polyester - Gray	13.00
8674	Slotted Polyester - Gray	9.81
8675	Concrete Insert Poly. - Gray	POA
8676	Single Vinylester - Beige	8.49
8677	Double Vinylester - Beige	15.65
8678	Slotted Vinylester - Beige	12.47
8679	Concrete Insert Viny. - Beige	POA

8

Fiberglass Channel Fittings

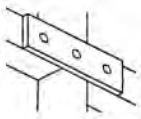
2 Hole Straight



Part #	Material	Price
2500P	Flat Polyester	$ 8.43
2500V	Flat Vinylester	8.75
2800P	Grooved Poly.	8.75
2800V	Grooved Vinyl.	9.81

P= Poly. Gray & V= Vinyl. Beige

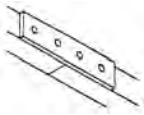
3 Hole Straight



Part #	Material	Price
2502P	Flat Polyester	$ 9.28
2502V	Flat Vinylester	11.14
2802P	Grooved Poly.	10.87
2802V	Grooved Vinyl.	11.62

P= Poly. Gray & V= Vinyl. Beige

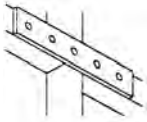
4 Hole Straight



Part #	Material	Price
2504P	Flat Polyester	$ 11.40
2504V	Flat Vinylester	14.59
2804P	Grooved Poly.	13.00
2804V	Grooved Vinyl.	14.80

P= Poly. Gray & V= Vinyl. Beige

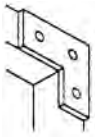
5 Hole Straight



Part #	Material	Price
2506P	Flat Polyester	$ 12.47
2506V	Flat Vinylester	14.59
2806P	Grooved Poly.	15.86
2806V	Grooved Vinyl.	19.36

P= Poly. Gray & V= Vinyl. Beige

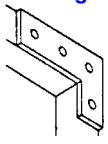
3 Hole 90° Angle



Part #	Material	Price
2508P	Flat Polyester	$ 9.81
2508V	Flat Vinylester	12.20
2808P	Grooved Poly.	16.18
2808V	Grooved Vinyl.	18.30

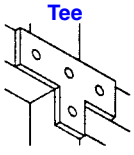
P= Poly. Gray & V= Vinyl. Beige

4 Hole 90° Angle



Part #	Material	Price
2510P	Flat Polyester	$ 13.00
2510V	Flat Vinylester	14.06
2810PL	Grooved Poly.	17.24
2810PR	Grooved Poly.	17.24
2810VL	Grooved Vinyl.	19.36
2810VR	Grooved Vinyl.	19.36

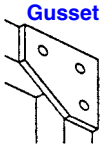
4 Hole Tee



Part #	Material	Price
2512P	Flat Polyester	$ 12.47
2512V	Flat Vinylester	15.12
2812P	Grooved Poly.	16.71
2812V	Grooved Vinyl.	19.04

P= Poly. Gray & V= Vinyl. Beige

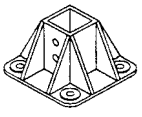
3 Hole Corner Gusset



Part #	Material	Price
2514P	Flat Polyester	$ 12.20
2514V	Flat Vinylester	13.26
2814P	Grooved Poly.	13.74
2814V	Grooved Vinyl.	16.18

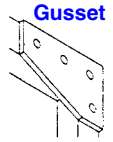
P= Poly. Gray & V= Vinyl. Beige

Single Post Base



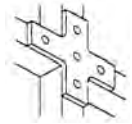
Part #	Material	Price
5853PU	Polyure. 1 5/8"	$31.77
5854PU	Polyure. 1 1/2"	31.77
5855PU	Polyure. 1"	31.77
5853PP	Polypro. 1 5/8"	17.24
5854PP	Polypro. 1 1/2"	POA
5855PP	Polypro. 1"	POA

4 Hole Corner Gusset



Part #	Material	Price
2516P	Flat Polyester	$ 13.74
2516V	Flat Vinylester	16.71
2816PL	Grooved Poly.	16.18
2816PR	Grooved Poly.	16.18
2816VL	Grooved Vinyl.	19.89
2816VR	Grooved Vinyl.	19.89

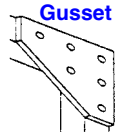
Cross



Part #	Material	Price
2518P	Flat Polyester	21.22
2518V	Flat Vinylester	23.07
2818P	Grooved Poly.	29.17
2818V	Grooved Vinyl.	34.48

P= Poly. Gray & V= Vinyl. Beige

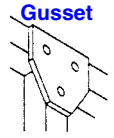
6 Hole Corner Gusset



Part #	Material	Price
2520P	Flat Polyester	$ 19.36
2520V	Flat Vinylester	23.87
2820P	Grooved Poly.	26.26
2820V	Grooved Vinyl.	29.97

P= Poly. Gray & V= Vinyl. Beige

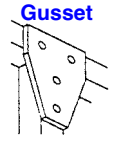
3 Hole Tee Gusset



Part #	Material	Price
2522P	Flat Polyester	$ 11.94
2522V	Flat Vinylester	13.00
2822P	Grooved Poly.	16.18
2822V	Grooved Vinyl.	17.50

P= Poly. Gray & V= Vinyl. Beige

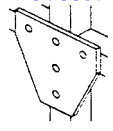
4 Hole Tee Gusset



Part #	Material	Price
2524P	Flat Polyester	$ 15.12
2524V	Flat Vinylester	15.91
2824P	Grooved Poly.	17.24
2824V	Grooved Vinyl.	19.63

P= Poly. Gray & V= Vinyl. Beige

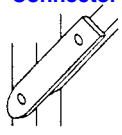
5 Hole Tee Gusset



Part #	Material	Price
2526P	Flat Polyester	$ 18.30
2526V	Flat Vinylester	31.30
2826P	Grooved Poly.	23.07
2826V	Grooved Vinyl.	25.46

P= Poly. Gray & V= Vinyl. Beige

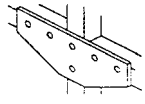
2 Hole Vertical Connector



Part #	Material	Price
2528P	Flat Polyester	$ 11.40
2528V	Flat Vinylester	13.00
2828P	Grooved Poly.	17.24
2828V	Grooved Vinyl.	17.77

P= Poly. Gray & V= Vinyl. Beige

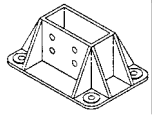
6 Hole Tee Gusset



Part #	Material	Price
2530P	Flat Polyester	$ POA
2530V	Flat Vinylester	36.60
2830P	Grooved Poly.	37.13
2830V	Grooved Vinyl.	37.93

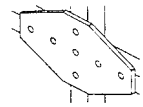
P= Poly. Gray & V= Vinyl. Beige

Double Post Base



Part #	Material	Price
5903PU	Polyure. 1 5/8"	$37.08
5904PU	Polyure. 1 1/2"	POA
5905PU	Polyure. 1"	37.08
5903PP	Polypro. 1 5/8"	21.75
5904PP	Polypro. 1 1/2"	POA
5905PP	Polypro. 1"	POA

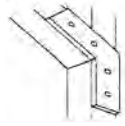
7 Hole Cross Gusset



Part #	Material	Price
2534P	Flat Polyester	$ 34.48
2534V	Flat Vinylester	42.38
2834P	Grooved Poly.	36.60
2834V	Grooved Vinyl.	45.09

P= Poly. Gray & V= Vinyl. Beige

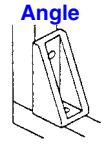
4 Hole 45° Angle



Part #	Material	Price
2540P	Flat Polyester	$ 38.72
2540V	Flat Vinylester	45.09
2840P	Grooved Poly.	45.09
2840V	Grooved Vinyl.	45.09

P= Poly. Gray & V= Vinyl. Beige

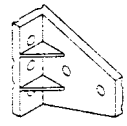
Molded Universal Angle



Part #	Material	Price
2636PU	Polyurethane	$ 13.00
2636PUA	Polyurethane	12.20
2636PUB	Polyurethane	12.47
2936PU	Polyurethane	13.00

P= Polyurethane

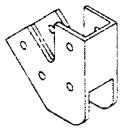
5 Hole Self Angle



Part #	Material	Price
2538PU	Grooved Polyurethane	$ 17.24

PU = Polyurethane Gray

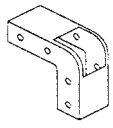
Molded 45°



Part #	Material	Price
2045PU	Grooved Polyurethane	$ 21.16

PU = Polyurethane Gray

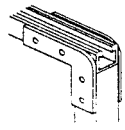
Molded 90° Outside



Part #	Material	Price
1508PU	1 1/2"	$ 15.12
2008PU	1 5/8"	21.16

PU = Polyurethane Gray

Molded 90° Inside



Part #	Material	Price
2090PU	Grooved Polyurethane 1 5/8"	$ 21.16

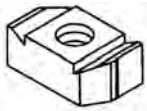
PU = Polyurethane Gray

Aickinstrut™ System Accessories - Channel Fittings

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
770-941-3030 • 1-800-849-3030 • www.alscoplastics.com • 013018

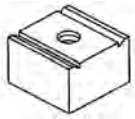
Fiberglass Channel & Support

Aickinstrut™ Fiberglass System Accessories



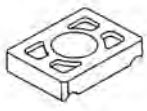
Channel Nuts Standard Duty Glass Reinforced Polyurethane

Part #	Description	Price $
8563	1/4" Polyurethane	1.96
8564	5/16" Polyurethane	1.96
8565	3/8" Polyurethane	2.12
8566	1/2" Polyurethane	2.07
8567	5/8" Polyurethane	2.39
8568	10 mm Polyurethane	2.39
8569	12 mm Polyurethane	POA



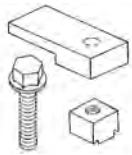
Channel Nuts Heavy Duty Glass Reinforced Polyurethane

Part #	Description	Price $
8579	3/8" Polyurethane	3.71
8580	1/2" Polyurethane	3.34
8581	5/8" Polyurethane	4.19
8582	3/4" Polyurethane	3.45
8583	10 mm Polyurethane	3.45
8584	12 mm Polyurethane	POA
8585	16 mm Polyurethane	POA
8586	20 mm Polyurethane	POA



SADDLE CLIPS

Part #	Description	Price $
8570	3/8"	2.65
8571	1/2"	2.60
8572	5/8"	2.60
8573	3/4"	2.65



I BEAM CLAMP ASSEMBLY

Part #	Description	Price $
8574	1/4"	POA
8575	3/8"	POA
8576	1/2"	POA



AICKINSTRUT MOLDED BEAM CLAMPS

Part #	Description	Price $
8577	3/8"	24.35
8578	1/2"	24.93



STOP LOCK ASSEMBLIES

Part #	Description	Price $
8587	3/8"	6.21
8588	1/2"	6.10
8589	5/8"	9.81



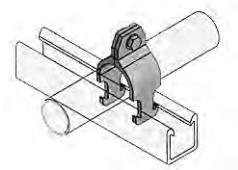
DURACLAMP C-CLAMPS

Part #	Description	Price $
8590	C-Clamp	POA
8591	Bolt Only	POA
8592	"C" Only	POA



COPE-GLAS BEAM CLAMPS

Part #	Description	Price $
8593	3/8"	34.48
8594	1/2"	36.60
8595	5/8"	38.72



For use with Series 2000 Channel Only

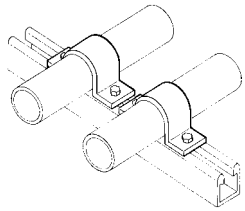
Aickinstrut™ Rigid Pipe Clamps

Designed for Rigid Metal, PVC or CPVC- Sch. 40 & 80, Fiberglass Pipe, and Conduit.

- Totally Non-Metallic
- Slip Design
- Made of Polyurethane
- Glass Reinforced for strength
- Highly Corrosion Resistant
- Temp. Up To 150°F

Note: PVDF also available

Nominal Size (in)	Part #	Price	Maximum Load lbs.
1/2	8154	$ 5.57	225
3/4	8155	6.31	225
1	8156	6.63	225
1 1/4	8157	7.16	225
1 1/2	8158	7.43	225
2	8159	7.69	225
2 1/2	8517	8.22	225
3	8160	8.75	225
4	8161	9.28	300
6	8162	14.06	300
8	8518	15.38	300

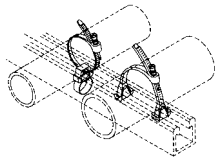


Aickinstrut™ Two Hole Pipe Straps

- Totally Non-Metallic
- Glass-reinforced Polyester Resin
- Highly Corrosion Resistant

Note: Bolts, Channel, and nuts sold separately.

Nominal Size (in)	Part #	Price	Maximum Load lbs.
2	8551	$ 19.63	50
2 1/2	8552	20.10	50
3	8553	22.01	50
3 1/2	8554	25.73	50
4	8555	26.52	60
5	8556	31.77	60
6	8557	34.48	60
8	8558	39.78	125
10	8559	46.15	125
12	8560	52.99	125
14	8561	68.43	150
16	8562	76.92	150



Aickinstrut™ Adjustable Pipe Clamps Standard Duty

- Totally Non-Metallic
- UV Resistant
- Made of Polyurethane
- Simple to install, no special tools required
- Corrosion Resistant
- Temp. Up To 130°F
- Sizes to 14" available upon request

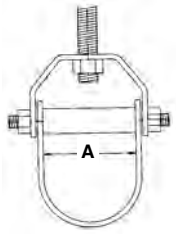
OD Size Pipe (in)	Part #	Price	Maximum Load lbs.
1/2 to 1 1/2	8163	$ 5.57	Depends on the position of the clamp, Contact our Sales Office.
1 1/2 to 2 1/4	8166	6.10	
2 1/4 to 3 1/4	8167	6.63	
3 to 4	8168	7.43	
4 to 6 1/2	8169	9.02	

8

ALSCO™ Fiberglass Channel & Support

Aickinstrut™ Fiberglass System Accessories

Aickinstrut™ Fiberglass Clevis Hangers



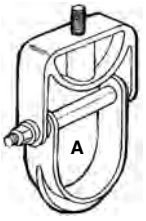
- All dimensions given in inches.
- Design loads given are in pounds at 70°F with a 3:1 factor of safety. Insulate hangers from pipe at higher temperatures.
- Made from a flame-retardant polyester resin.

Note: Hanger Rod and Nuts are sold separately.

Part #	Price $	Maximum Load lbs.	Nominal Pipe Dia.	(A) Max. OD	Hanger Rod
8146	42.44	60	1	1 1/2	1/2
8147	41.91	60	1 1/2	2	1/2
8148	47.74	90	2	2 5/8	1/2
8149	51.45	120	2 1/2	3 1/4	1/2
8150	52.51	160	3	3 7/8	5/8
8151	55.70	250	4	5 1/8	5/8
8152	68.96	400	6	7 1/8	5/8
8153	84.87	450	8	9 1/4	5/8

Note: Larger sizes available 10" - 21" upon request.

Aickinstrut™ Molded Clevis Hangers



- All dimensions given in inches.
- Design loads given are in pounds at 70°F with a 3:1 factor of safety. Insulate hangers from pipe at higher temperatures.
- Glass-reinforced Polyurethane.

Note: Hanger Rod and Nuts are sold separately.

Part #	Price $	Maximum Load lbs.	Nominal Pipe Dia.	(A) Max. OD	Hanger Rod
8540	25.99	670	1/2	1	1/2
8541	27.58	670	1 1/4	1 1/2	1/2
8542	33.68	730	1 1/2	2	1/2
8543	53.05	1150	2 1/2	4	1/2
8544	68.96	1170	4 1/2	6	1/2

Fiberglass Fasteners - Threaded Rods, Nuts, Bolts, and Couplers (Bolts & Nuts, FRP)



Fiberglass Rods (Studs)

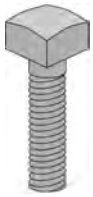
Size* in. (UNC)	Ultimate Torque	Installation Torque	Part #	Price Per 4' Len.
3/8 (16)	8 ft.-lbs.	4 ft.-lbs.	8039	$ 49.68
1/2 (13)	18 ft.-lbs.	8 ft.-lbs.	8040	51.97
5/8 (11)	35 ft.-lbs.	16 ft.-lbs.	8041	56.99
3/4 (10)	50 ft.-lbs.	24 ft.-lbs.	8042	61.48
1 (8)	110 ft.-lbs.	50 ft.-lbs.	8043	72.01

* Sold in 4 ft. lengths



Fiberglass Square Nuts

Size in.	Thread Shear (Ultimate, lbs.)	Part #	Price Each
3/8	1350	8044	$ 2.92
1/2	2000	8045	3.13
5/8	3500	8046	4.19
3/4	5000	8047	7.37
1	9000	8048	7.96



Fiberglass Square Head Bolts

Size in.	Thread Shear (Ultimate, lbs.)	Part #	Price Each
3/8 x 1	1350	8049	$ 5.73
3/8 x 1 1/4	1350	8050	5.94
3/8 x 1 1/2	1350	8051	6.15
3/8 x 1 3/4	1350	8052	6.37
3/8 x 2	1350	8053	6.79
3/8 x 2 1/2	1350	8054	7.00
3/8 x 3	1350	8055	7.37
3/8 x 3 1/2	1350	8056	7.64
3/8 x 4	1350	8057	21.16



Fiberglass Hex Flanged Nuts

Size in. (UNC)	Ultimate Torque	Installation Torque	Part #	Price Each
3/8 (16)	8 ft.-lbs.	4 ft.-lbs.	8058	$ 2.02
1/2 (13)	18 ft.-lbs.	8 ft.-lbs.	8059	2.09
5/8 (11)	35 ft.-lbs.	16 ft.-lbs.	8060	3.58
3/4 (10)	50 ft.-lbs.	24 ft.-lbs.	8061	4.12
1 (8)	110 ft.-lbs.	50 ft.-lbs.	8062	7.90



	1/2" Hex-Head Bolts *		3/8" Hex-Head Bolts	
Size Length	Part #	Price Each	Part #	Price Each
1 1/4	8800	$ 1.54	8063	$ 1.59
1 1/2	8801	1.86	8064	1.75
2	8802	2.39	8065	1.91
2 1/2	8803	2.65	8066	2.07
3	8804	2.81	8067	2.23
3 1/2	8805	3.02	-	-

* Washerless

Note: Both Bolts are Long Glass Fiber Reinforced Polyurethane.

Size (in)	Thread Shear	Shank Shear	Torque (in-lbs)
3/8"	800	1400	80
1/2"	1600	2600	150



	Rod Couplers *		PVC Washers	
Size in.	Part #	Price Each	Part #	Price Each
3/8	8068	$ 5.83	8072	$ .90
1/2	8069	5.25	8073	1.01
5/8	8070	8.75	8074	1.33
3/4	8071	8.75	8075	1.59
1	-	-	8076	1.86

* Glass Reinforced Polyurethane Rod Couplers

ALSCO Industrial Products, Inc. • 1265 Mount Vernon Rd. • Lithia Springs, GA. 30122 • FAX 770-739-7549
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clic®-x Pipe Hangers



The clic-x System

NOTHING SIMPLER — NOTHING EASIER — NOTHING QUICKER

Features

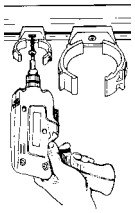
- One Piece Automatic Locking
- Corrosion Resistant
- One person installation
- UV inhibitor for weatherability
- Economical • Reusable
- Allows expansion & contraction
- Made from Xenoy 5730
- Handles Pipe - Tube up to 4”
- Temperatures:
  Working Temp. -40°F to 194°F
  Short Time Max. Temp. 221°F
  Installation Temp. Range to - 5°F

A Few Typical Applications

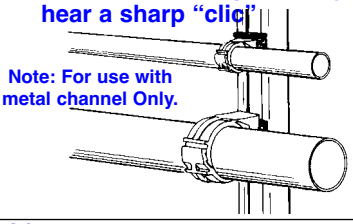
- Corrosive Atmospheres
- Clean Rooms
- Plumbing
- DWV
- Process Piping
- Marinas
- Hydraulics—Low Pressure
- Fire Sprinklers
- Foodstuffs
- Waste Treatment
- Sewage Treatment
- HVAC
- Marine
- Refrigeration
- Pneumatics
- Beverages

How It Works ... Two Easy Simple Steps

1. Anchor the clic hanger



2. Push Pipe into hanger until you hear a sharp “clic”

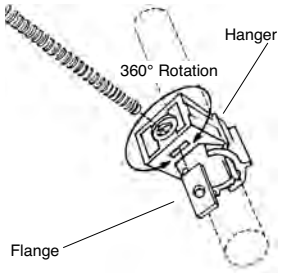


Clic Hangers for Pipe - Schedule 40 & 80, Plastic or Metal *													
Nom. Pipe Size (in)	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Part #	8253	8254	8255	8256	8257	8258	8259	8260	8261	8262	8263	8264	8265
Price Each / Loose	$ .64	$ 1.61	$ 1.84	$ .99	$ 2.55	$ 3.62	$ 4.72	$ 5.97	$ 8.78	$18.58	$22.14	$ 14.80	$ 29.69

Price discounts are available for carton quantities.

* Clic Hangers for Tube - Copper & Plastic are also available, consult our sales office.

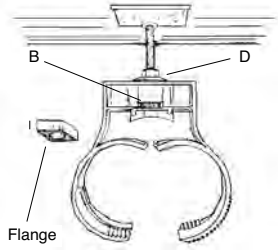
AS A HANGER for Pipe / Tube Trade sizes through 2”



Threaded Rod

Insert 316 alloy stainless steel flange into slot in base of clic. Make 1/4” threaded rod into flange via screw hole in base of clic. If using 3/8” threaded rod, make 316 alloy stainless steel adaptor into flange via screw hole in base of clic, then make 3/8” threaded rod into adaptor.

AS A HANGER for Pipe Trade sizes 2 1/2” through 4”

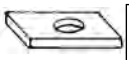


Threaded Rod

Use 3/8” threaded rod and flange shown at left. Flange inserts into orifice at B. Also use washer and nut at D. Access hole in base at D is tapped 1/2” NPT, thus pipe and hanger plate can be used in lieu of threaded rod, or to elevate clic from mounting surface.

8

The clic-x System ACCESSORIES



Flange

Stainless Steel 316 Alloy, tapped 1/4” -20 for thumb-tight fit into slot in base of clic. Permits 1/4” threaded rod or stud to mate with clic via screw hole in base of clic.

Part # 8266 Price $ .60



Strut-catcher *

For use with 1/2” to 4”
Note: For use with metal channel Only.
Made of Xenoy.

Part # 8270 Price $ 2.00

* Use Strutcatcher 2 for light duty applications.



Threaded Rod				
Size (in)	Steel- Zinc Plated		Stainless Steel	
	Part #	Price / ft.	Part #	Price / ft.
1/4” -20	8203	$1.14	8205	3.18
3/8” -16	8204	1.94	8206	5.22

Note: Zinc rods sold in 6 ft. lengths. Stainless SS sold in 6 ft. lengths.



Rod Coupling 1/4” & 3/8”

Size (in)	Material	Part #	Price each
1/4 x 7/8	Zinc Plated	8249	$ .36
3/8 x 1 1/8	Zinc Plated	8250	.38
1/4 x 7/8	Stainless Steel	8251	1.70
3/8 x 1 1/8	Stainless Steel	8252	2.40

ALSCO™ Plastic Hangers & Accessories



All Plastic Cable Tie Straps

An all plastic tie with no metal to corrode or break. Ideal for grouping or identifying wires. Quick and easy to install. Can be installed by hand or with a tension tool. Available in many different materials: Nylon, Polypropylene, Halar®, and Tefzel® . Available in a flame retardant material that meets U.L. 94V-0. Note: All Ties sold by the pack (25 ties to a pack).

TEMPERATURE RANGES:

Nylon 6/6: -40°F to 185°F **Nylon 12:** -40°F to 176°F **Flame Ret. Nylon:** -40°F to 203°F



Nylon 12 Locking Cable Ties

Outdoor Use in Acid Rain Environment

Part #	Price Each	Max. Bundle Dia. (in)	Approx. Length (in)	Approx. Tensile Strength (lbs)
8276	$ 1.72	1.38	5.6	25
8277	2.04	1.88	7.4	40
8278	6.62	4.00	14.5	40
8279	1.28	4.00	14.5	90
8280	2.27	8.00	27.6	90



Polypropylene Locking Cable Ties

Chemical Resistant

Part #	Price Each	Max. Bundle Dia. (in)	Approx. Length (in)	Approx. Tensile Strength (lbs)
8281	$ .30	.87	3.9	11
8282	.32	1.75	7.4	11
8283	.56	3.00	11.5	30
8284	.76	4.00	14.5	30
8285	.84	2.00	8.4	30
8286	.88	3.00	11.4	50



GF Pipe Bracket (Clip)

Material: Pipe Clip - PP
Safety Clip - PP
Note: Only sizes 1 1/2" and above are supplied with Safety Clip.

Size (in)	Size (mm)	Part #	Price Each
3/8	16	1481-003	$ 1.28
1/2	20	1481-005	1.28
3/4	25	1481-007	1.28
1	32	1481-010	2.57
1 1/4	40	1481-012	2.57
1 1/2	50	1481-015	3.85
2	63	1481-020	3.85
2 1/2	75	1481-025	7.47
3	90	1481-030	8.65
4	110	1481-040	9.72
6	160	1481-060	19.44



Two Nuts Included

Plastic U - Bolts

- Made from a corrosion resistant, glass-reinforced polyurethane resin.
- Oversized bolt diameters provide excellent load carrying capabilities.
- Flattened interior surface minimizes distortion of pipe after tightening.
- Standard inside diameter can accommodate a wide variety of pipe and conduit.
- Recommended for use in temperatures ranging from -40°F to 150°F.

Pipe Nom. Diameter	Part #	Price Each	Max. Rec. Loading (lbs)	Max. Rec. Torque (in/ lbs)
1/2	8299	$ 3.20	75	20
3/4	8300	3.56	75	20
1	8301	3.76	75	20
1 1/4	8302	5.36	75	20
1 1/2	8303	5.60	75	20
2	8304	7.80	150	40
2 1/2	8305	9.00	150	40
3	8306	9.80	150	40
3 1/2	8307	10.64	150	40
4	8308	11.00	150	40

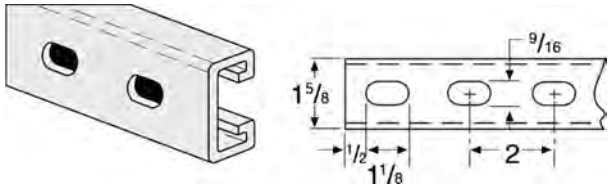
All prices subject to change without notice.

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Channel

In all design applications using strut systems and accessories, proper engineering design practices should be applied and load limits observed. Struts are often installed to serve either as beams or columns in structural applications. Structural members installed in a horizontal attitude and subject to vertical and/or horizontal loads are known as beams. The method by which a beam is mounted and loaded affects the load-carrying capability of the beam. Structural members installed in a vertical attitude and subject to vertical loads are known as columns. The loads on a column have the effect of compressing the column and attempting to deflect the column laterally. As with beams, the method by which a column is mounted and loaded affects the load-carrying capability of the column.

NOTE: Contact our sales department to obtain technical data regarding the load-carrying capability for your project.



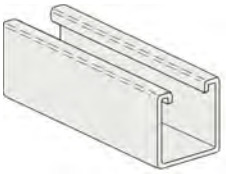
All channels listed below are 1-1/8" X 9/16" Slots on 2" Centers.

NOTE: Channels are available in other mounting configurations, 20 foot lengths, aluminum and 316 stainless steel material, and several other coating and finishing options.

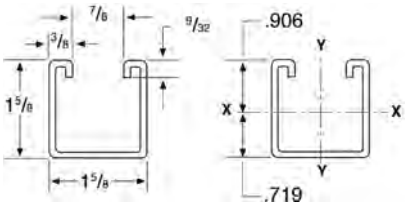
Pre-Galvanized Zinc (AS TM A653 COA TIN G G90)
This type of coating is suitable for extended exposure in dry or mildly corrosive atmospheres but not generally recommended for use outdoors in industrial environments.

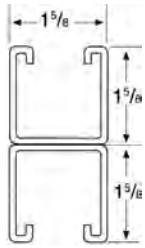
Dura-Green®
A water borne epoxy paint applied by cathodic electro disposition. The nine-step process delivers a corrosion - resistant bonding of coating to material. Dura-Green® effectively, resists scratching and peeling.

Stainless Steel
Because of its corrosion resistance, stainless steel is recommended for applications where corrosion is a problem.



Single Channel
Figure #
1011
1111

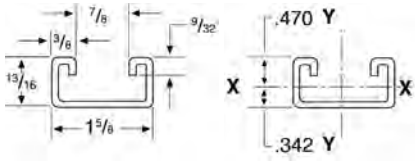


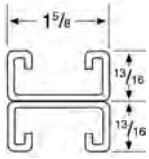


Double Channel
Figure #
1011A
1111A

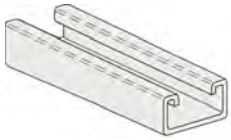


Single Channel
Figure #
1211
1311

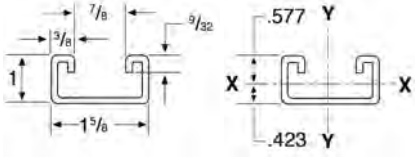


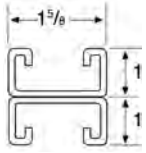


Double Channel
Figure #
1211A
1311A



Single Channel
Figure #
1411





Double Channel
Figure #
1411A



10 Foot Channel with 1 1/8" X 9/16" Slots on 2" Centers

Size (in.)	Gauge	Fig. #	Description	Pre-Galvanized		Dura-Green®		18-8 SS	
				Part #	Price $	Part #	Price $	Part #	Price $
1 5/8 x 1 5/8	12	1011	Single Channel	S1011PG	2.97	S1011PC	3.27	S1011SS	11.04
1 5/8 x 3 1/4	12	1011A	Double Channel Welded Back to Back	S1011APG	POA	S1011APC	POA	S1011ASS	POA
1 5/8 x 1 5/8	14	1111	Single Channel	S1111PG	2.64	S1111PC	2.90	S1111SS	11.04
1 5/8 x 3 1/4	14	1111A	Double Channel Welded Back to Back	S1111APG	POA	S1111APC	POA	S1111ASS	POA
1 5/8 x 13/16	12	1211	Single Channel	S1211PG	2.79	S1211PC	3.07	S1211SS	7.29
1 5/8 x 1 5/8	12	1211A	Double Channel Welded Back to Back	S1211APG	POA	S1211APC	POA	S1211ASS	POA
1 5/8 x 13/16	14	1311	Single Channel	S1311PG	2.10	S1311PC	2.31	S1311SS	7.29
1 5/8 x 1 5/8	14	1311A	Double Channel Welded Back to Back	S1311APG	POA	S1311APC	POA	S1311ASS	POA
1 5/8 x 1	12	1411	Single Channel	S1411PG	4.00	S1411PC	6.80	N/A	N/A
1 5/8 x 2	12	1411A	Double Channel Welded Back to Back	S1411APG	POA	S1411APC	POA	N/A	N/A

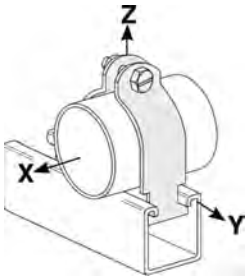
NOTE: Pricing Per Foot. Some Sizes Available in 316 Stainless Steel.

Strut Clamps



EMT Conduit Clamp

EMT Size (in.)	Gauge	Max. Rec. Loads (lbs.)			Electro Galvanized	
		X	Y	Z	Part #	Price $
3/8	16	50	50	400	2201	1.42
1/2	16	50	50	400	2202	.95
3/4	16	50	50	400	2203	1.01
1	14	50	50	600	2204	1.08
1 1/4	14	50	50	600	2205	1.14
1 1/2	12	75	75	800	2206	1.40
2	12	75	75	800	2207	1.51

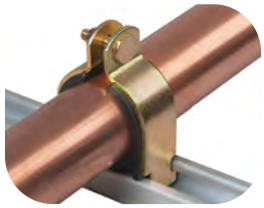


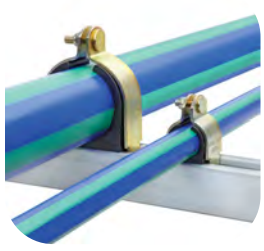


Iron Pipe Size - Pipe Clamp

Pipe Size (in.)	O.D. Size (in.)	Gauge	Max. Rec. Loads (lbs.)			Electro Galvanized		18-8 SS	
			X	Y	Z	Part #	Price $	Part #	Price $
3/8	•	16	50	50	400	P1109	1.42	N/A	N/A
1/2	•	16	50	50	400	P1111	.85	P1111-SS	3.27
3/4	•	14	75	75	600	P1112	.93	P1112-SS	3.45
1	•	14	75	75	600	P1113	.97	P1113-SS	3.68
1 1/4	•	14	75	75	600	P1114	1.01	P1114-SS	3.97
1 1/2	•	12	125	125	800	P1115	1.51	P1115-SS	5.08
2	2 3/8	12	125	125	800	P1117	1.61	P1117-SS	5.57
2 1/2	2 7/8	12	125	125	800	P1118	1.80	P1118-SS	6.16
3	3 1/2	12	125	125	800	P1119	1.91	P1119-SS	6.79
3 1/2	4	11	150	200	1000	P1120	2.19	P1120-SS	8.27
4	4 1/2	11	150	200	1000	P1121	2.43	P1121-SS	9.08
5	•	11	150	200	1000	P1123	3.44	P1123-SS	11.00
6	6 5/8	11	150	200	1000	P1124	3.93	P1124-SS	12.60
8	8 5/8	11	200	250	1000	P1126	5.20	P1126-SS	14.94
10	10 3/4	11	200	250	1000	P2015	6.49	P2015-SS	29.44
12	12 3/4	11	200	250	1000	P2016	7.36	P2016-SS	30.74

NOTE: Available in Aluminum and 316 Stainless Steel.





NOTE: Pipe, Metric and Tube Sizing Chart on following page. Additional sizes available.

Cushion Strut Clamps:

- Eliminate metal to metal contact between fluid conductors and clamps.
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials.
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines.
- Permit various size lines to be mixed to suit installation.
- Center distances between conductors may be varied.
- Provide fast and simple installation.
- Available in 1008-1010 carbon steel with Tri-Valent plated corrosion inhibitor, 304 and 316 stainless steel, and aluminum.
- Working temperature range -65°F to +275°F.

Pipe Size

Pipe Size (in.)	Zinc Electroplated		304 Stainless Steel	
	Part #	Price $	Part #	Price $
1/4	2574	2.50	2574-SS	5.50
3/8	2575	2.70	2575-SS	6.00
1/2	2576	2.95	2576-SS	6.70
3/4	2577	3.25	2577-SS	8.50
1	2578	3.70	2578-SS	9.95
1 1/4	2579	4.90	2579-SS	11.50
1 1/2	2580	6.45	2580-SS	14.20
2	2581	8.25	2581-SS	14.40
2 1/2	2582	10.50	2582-SS	19.45
3	2583	14.00	2583-SS	26.05
3 1/2	2584	20.25	2584-SS	31.85
4	2585	26.50	2585-SS	42.40
5	2643	42.25	2643-SS	55.00
6	2644	57.00	2644-SS	66.50

Metric Pipe Size

Metric (mm)	Zinc Electroplated	
	Part #	Price $
20	2731	2.75
25	2732	2.90
32	2733	3.35
40	2734	4.90
50	2735	6.45
63	2736	10.20
75	2737	13.40
90	2738	14.00
110	2739	26.50
125	2740	28.00
160	2741	57.00

Tube Size

Tube O.D. (in.)	Zinc Electroplated		304 Stainless Steel	
	Part #	Price $	Part #	Price $
1/4	2501	2.10	2501-SS	4.20
3/8	2502	2.00	2502-SS	4.20
1/2	2503	2.00	2503-SS	4.35
5/8	2504	2.05	2504-SS	4.70
3/4	2505	2.30	2505-SS	6.00
7/8	2506	2.65	2506-SS	6.85
1 1/8	2507	3.10	2507-SS	8.35
1 3/8	2508	3.70	2508-SS	9.95
1 5/8	2509	4.90	2509-SS	11.50
2 1/8	2510	7.40	2510-SS	13.00
2 5/8	2511	8.40	2511-SS	22.50
3 1/8	2512	10.75	2512-SS	23.85
4 1/8	2514	20.40	2514-SS	27.90
5 1/8	2523	42.25	2523-SS	62.00
6 1/8	2524	57.00	2524-SS	66.50

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Pipe, Metric and Tube Cushion Strut Clamp Sizing Chart

Zinc Electroplated Carbon Steel Part Numbers Shown For Reference

PIPE		METRIC		TUBE		Cushion I.D. Size (in.)	Cushion I.D. Size (mm)	Clamp Size (in.)	Fastener
Size (in.)	Part #	Size (mm)	Part #	O.D. (in.)	Part #				
		6	6MMHZ	1/4	2501	0.250	6.3	0.375	1/4 - 20
		8	8MMHZ	5/16	100031	0.312	7.9	0.500	1/4 - 20
		10	10MMHZ	3/8	2502	0.375	9.5	0.500	1/4 - 20
		12	12MMHZ	.47	100047	0.470	11.9	0.625	1/4 - 20
1/4	2574	13	13MMHZ	1/2	2503	0.500	12.7	0.625	1/4 - 20
		14	14MMHZ			0.540	13.7	0.675	1/4 - 20
		15	15MMHZ			0.625	15.9	0.675	1/4 - 20
		16	16MMHZ	5/8	2504	0.625	15.9	0.750	1/4 - 20
3/8	2575	17	17MMHZ			0.675	17.1	0.840	1/4 - 20
		18	18MMHZ			0.675	17.1	0.875	1/4 - 20
		19	19MMHZ	3/4	2505	0.750	19.0	1.000	1/4 - 20
		20	20MMHZ			0.750	19.0	1.000	1/4 - 20
1/2	2576	21				0.750	21.3	1.000	1/4 - 20
		22	22MMHZ	7/8	2506	0.875	22.2	1.125	1/4 - 20
		25	25MMHZ			1.000	25.0	1.250	1/4 - 20
		26	26MMHZ	1	100100	1.000	25.4	1.250	1/4 - 20
3/4	2577	27	27MMHZ			1.050	28.0	1.375	1/4 - 20
		28	28MMHZ	1 1/8	2507	1.125	29.2	1.375	1/4 - 20
		30	30MMHZ	1.19	100119	1.190	30.2	1.500	1/4 - 20
		32	32MMHZ	1 1/4	100125	1.250	31.8	1.500	1/4 - 20
1	2578	34	34MMHZ			1.315	33.5	1.750	5/16 - 18
		35	35MMHZ	1 3/8	2508	1.375	34.9	1.620	5/16 - 18
		38	38MMHZ	1 1/2	100150	1.500	38.1	1.750	5/16 - 18
		40	40MMHZ			1.500	40.0	1.870	5/16 - 18
		41		1 5/8	2509	1.625	41.1	1.870	5/16 - 18
1 1/4	2579	42	42MMHZ			1.660	42.2	2.000	5/16 - 18
		45	45MMHZ	1 3/4	100175	1.750	44.5	2.000	5/16 - 18
1 1/2	2580	48	48MMHZ	1 7/8	100187	1.900	48.2	2.250	5/16 - 18
		50	50MMHZ			2.000	50.0	2.250	5/16 - 18
		51	51MMHZ	2	100200	2.000	50.8	2.250	5/16 - 18
		54	54MMHZ	2 1/8	2510	2.125	54.1	2.500	5/16 - 18
		57		2 1/4	100225	2.250	57.1	2.750	5/16 - 18
2	2581	60	60MMHZ	2 3/8	100237	2.375	60.4	2.750	5/16 - 18
		63	63MMHZ			2.500	63.0	3.000	5/16 - 18
		64	64MMHZ	2 1/2	100251	2.500	63.5	3.000	5/16 - 18
		66	66MMHZ	2 5/8	2511	2.625	66.5	3.000	5/16 - 18
2 1/2	2582	72	72MMHZ	2 7/8	100337	2.875	73.2	3.250	5/16 - 18
		75	75MMHZ			3.120	75.0	3.370	5/16 - 18
		77		3	100300	3.000	76.2	3.500	5/16 - 18
		80	80MMHZ	3 1/8	2512	3.120	79.2	3.500	5/16 - 18
		86		3 3/8		3.500	88.9	3.750	3/8 - 16
3	2583	90	90MMHZ	3 1/2		3.500	88.9	3.875	3/8 - 16
		92		3 5/8	100362	3.500	88.9	4.000	3/8 - 16
3 1/2	2584	102		4	100400	4.000	101.6	4.500	3/8 - 16
		105		4 1/8	2514	4.000	105.0	4.625	3/8 - 16
		108		4 1/4	100425	4.000	108.0	4.750	3/8 - 16
		110	110MMHZ		100431	4.500	111.0	4.875	3/8 - 16
		111		4 3/8	100437	4.500	111.0	4.875	3/8 - 16
4	2585	113		4 1/2		4.500	113.0	5.000	3/8 - 16
		118		4 5/8	100462	4.500	118.0	5.125	3/8 - 16
		125	125MMHZ		100492	4.500	125.0	5.500	3/8 - 16
		127		5	100500	5.125	127.0	5.500	3/8 - 16
		130		5 1/8	2523	5.125	130.0	5.500	3/8 - 16
5	2643	141				5.563	141.2	6.000	3/8 - 16
		152		6	100600	6.125	152.0	6.375	3/8 - 16
		155		6 1/8	2524	6.125	155.0	6.375	3/8 - 16
		160	160MMHZ		100631	6.625	160.0	6.375	3/8 - 16
		162		6 3/8	100637	6.625	162.0	6.750	3/8 - 16
6	2644	165		6 1/2	100650	6.625	165.0	7.000	3/8 - 16

Strut Mount Insulation Couplings



7-Series

7-Series Strut Mount Insulation Couplings - Mild Steel

Tube O.D. (in.)	3/8" Wall Insulation		1/2" Wall Insulation		3/4" Wall Insulation		1" Wall Insulation		1-1/2" Wall Insulation	
	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $	Part #	Price $
1/4	723025	3.00	724025	4.05	726025	5.40	N/A	N/A	N/A	N/A
5/16	N/A	N/A	N/A	N/A	N/A	N/A	728031	8.90	729031	14.40
3/8	723037	3.30	724037	4.05	726037	5.70	728037	8.90	729037	14.40
1/2	723050	3.75	724050	4.45	726050	6.00	728050	9.40	729050	16.35
5/8	723062	4.05	724062	4.80	726062	6.40	728062	9.60	729062	16.80
3/4	723075	4.45	724075	5.40	726075	7.65	728075	9.85	N/A	N/A
7/8	723087	4.80	724087	5.70	726087	8.85	728087	10.10	729087	17.25
1	723100	5.40	724100	6.00	N/A	N/A	N/A	N/A	N/A	N/A
1 1/8	723112	5.70	724112	6.40	726112	9.60	728112	12.60	729112	18.00
1 3/8	723137	6.40	724137	8.90	726137	10.10	728137	12.90	729137	20.75
1 5/8	723162	8.90	724162	9.60	726162	12.60	728162	16.80	729162	24.50
2 1/8	723212	10.10	724212	12.60	726212	16.80	728212	17.25	729212	31.75
2 5/8	N/A	N/A	724262	16.80	726262	17.50	728262	24.50	N/A	N/A
3 1/8	N/A	N/A	724312	17.50	726312	24.50	728312	31.75	729312	64.75
3 5/8	N/A	N/A	724362	24.50	726362	31.75	728362	50.75	N/A	N/A
4 1/8	N/A	N/A	724412	31.75	726412	50.75	728412	64.75	N/A	N/A



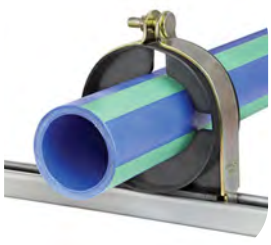


8-Series

8-Series Strut Mount Insulation Couplings - Plastic

Tube O.D. (in.)	1/2" Wall Insulation		3/4" Wall Insulation		1" Wall Insulation	
	Part #	Price $	Part #	Price $	Part #	Price $
1/2	824050	2.75	N/A	N/A	N/A	N/A
5/8	824062	3.00	826062	3.85	N/A	N/A
7/8	824087	3.50	826087	5.00	828087	6.25
1 1/8	824112	3.85	826112	5.75	828112	7.50
1 3/8	824137	5.00	826137	6.25	828137	7.75
1 5/8	824162	5.75	N/A	N/A	828162	8.00
2 1/8	824212	7.50	N/A	N/A	828212	10.25
2 5/8	N/A	N/A	N/A	N/A	828262	13.00

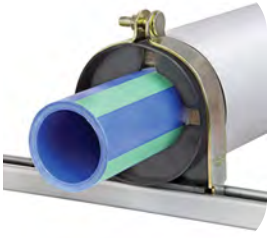




9-Series

9-Series Strut Mount Insulation Couplings - Mild Steel - Copper Tubing

Copper Tube O.D. (in.)	1/2" Wall Fiberglass Insulation		1" Wall Fiberglass Insulation		1-1/2" Wall Fiberglass Insulation	
	Part #	Price $	Part #	Price $	Part #	Price $
5/8	924062	4.80	928062	10.10	N/A	N/A
7/8	924087	5.70	928087	10.10	929087	17.50
1 1/8	924112	6.00	928112	10.10	929112	17.50
1 3/8	924137	8.90	928137	12.90	929137	20.75
1 5/8	924162	9.60	928162	12.90	929162	20.75
2 1/8	924212	12.60	928212	17.50	929212	31.75
2 5/8	N/A	N/A	928262	20.75	N/A	N/A
3 1/8	N/A	N/A	928312	31.75	N/A	N/A



9-Series Strut Mount Insulation Couplings - Mild Steel - Iron Pipe

Iron Pipe O.D. (in.)	1/2" Wall Fiberglass Insulation		1" Wall Fiberglass Insulation		1-1/2" Wall Fiberglass Insulation	
	Part #	Price $	Part #	Price $	Part #	Price $
1/2	924084	5.70	928084	10.10	929084	17.50
3/4	924105	6.00	928105	10.10	929105	17.50
1	924131	8.90	928131	12.90	929131	20.75
1 1/4	924166	9.60	928166	12.90	929166	31.75
1 1/2	924190	10.10	928190	17.50	929190	31.75
2	N/A	N/A	928237	20.75	N/A	N/A
2 1/2	N/A	N/A	928287	31.75	N/A	N/A

9-Series - Metric Pipe

Metric Pipe O.D. (in.)	1" Wall Fiberglass Insulation	
	Part #	Price $
25	928M25	12.20
32	928M32	15.00
40	928M40	15.00
50	928M50	19.60
63	928M63	22.85
75	928M75	33.85
90	928M90	52.60

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Cushion Clamps and Hangers



Modu-Stak cushion clamps are available in a wide variety of configurations.

General Characteristics
- Cushion material is polypropylene with working temperature from -20°F to 212°F.
- Reduce noise, shock and vibration caused by surges in fluid conductors.
- Eliminate metal to metal contact between fluid conductors and clamps preventing galvanic reaction.
- Resists most fuels, oils, gases, greases, solvents, etc.
- Provide fast and simple installation.
- Extensive selection of components for assemblies can meet varying application requirements.
- Assemblies available in either single or double line.

Mounting Features
- Clamp assemblies can use weld plates, be bolted directly into place, utilize channel mounting or be suspended using customer supplied threaded rod.
- Formed weld bases have integral weld nuts secured from the underside. Weld failure cannot cause clamp failure.
- Heavy weld plates, including integral weld nuts, are available for heavy duty applications.

Stacking and Tiering
- Center distance of mounting holes (bolt holes) and height of the assembly are identical.
- All assembly sizes (like series) are the same width for good appearance when stacked together.
- Double retainer plates are used for heavier duty applications (required when stacking or tiering).



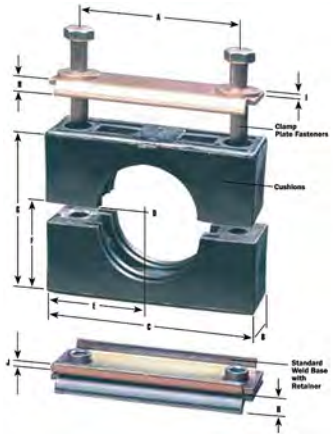
531 Cushion

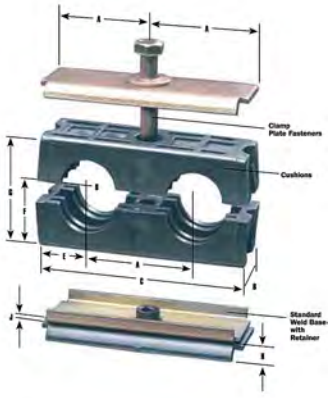


532 Cushion



Single-Tier
Standard Weld Base

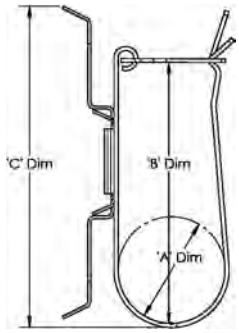




Cushion Series	A	B	C	D Cushion I.D. Available Size	E	F	G	H	I	J
521	1	1.16	1.90	025, 031, 037, 050	0.95	0.425	0.85	0.30	0.075	0.075
522	1	1.16	1.94	025, 031, 037, 050	0.45	0.425	0.85	0.30	0.075	0.075
524	1	1.16	3.88	025, 031, 037, 050	0.45	0.425	0.85	0.30	0.075	0.075
531	1 1/2	1.16	2.40	037, 050, 054, 062, 067, 075, 084, 087	1.20	0.675	1.35	0.30	0.105	0.075
532	1 1/2	1.16	2.94	037, 050, 054, 062, 067, 075, 084, 087	0.72	0.675	1.35	0.30	0.105	0.075
541	2	1.16	2.90	100, 105, 112, 125, 131, 137	1.45	0.925	1.85	0.30	0.105	0.075
542	2	1.16	3.94	062, 067, 075, 084, 087, 100, 105, 112, 125, 131, 137	1.87	0.925	1.85	0.30	0.105	0.075
561	3	1.16	3.90	150, 162, 166, 175, 190, 200, 212, 225, 237	1.95	1.395	2.79	0.30	0.105	0.105







TRH Hanger System
Fits 1/4" - 3/8" Threaded Rod

A	B	C	Part #	Price $
1.28	3.12	3.82	TRH-2	4.50
1.40	3.28	3.70	TRH-3	5.00
2.40	4.17	5.00	TRH-4	6.00
3.38	6.26	7.03	TRH-5	9.00

8

Strut Nuts, Straps and Riser Clamps



Strut Nut without Spring

Thread Size (in.)	Thickness (in.)	Electro Galvanized		316 SS	
		Part #	Price $	Part #	Price $
#8-32	1/4	3001-1	2.33	N/A	N/A
#10-24	1/4	3002	2.00	N/A	N/A
#10-32	1/4	3003	2.00	N/A	N/A
1/4	1/4	3004	1.12	3004-SS	2.42
5/16	1/4	3005	1.26	N/A	N/A
3/8	3/8	3006	1.36	3006-SS	2.78
7/16	3/8	3007	1.50	N/A	N/A
1/2	1/2	3008	1.50	3008-SS	3.36
5/8	1/2	3009	2.76	N/A	N/A
3/4	1/2	3010	3.18	N/A	N/A
7/8	1/2	3011	3.39	N/A	N/A

NOTE: Available in Aluminum.



Strut Nut with Spring

Thread Size (in.)	Thickness (in.)	Electro Galvanized		316 SS	
		Part #	Price $	Part #	Price $
#8-32	1/4	3101	3.33	N/A	N/A
#10-24	1/4	3102	3.00	N/A	N/A
#10-32	1/4	3103	1.52	N/A	N/A
1/4	1/4	3104	1.33	3104-SS	2.58
5/16	1/4	3105	1.52	N/A	N/A
3/8	3/8	3106	1.52	3106-SS	2.94
7/16	3/8	3107	1.78	N/A	N/A
1/2	1/2	3108	1.78	3108-SS	3.58
5/8	1/2	3109	3.46	N/A	N/A
3/4	1/2	3110	3.97	N/A	N/A
7/8	1/2	3111	4.30	N/A	N/A

NOTE: Available in Aluminum.



One Hole Galvanized Pipe Strap

Size (in.)	Part #	Price $
1/4	8230	.44
3/8	8231	.52
1/2	8232	.99
3/4	8233	1.14
1	8234	2.47
1 1/4	8235	3.49
1 1/2	8236	3.88
2	8237	6.15



Two Hole Galvanized Pipe Strap

Size (in.)	Part #	Price $
1/4	8238	.30
3/8	5239	.30
1/2	8240	.35
3/4	8241	.44
1	8242	.86
1 1/4	8243	1.23
1 1/2	8244	1.47
2	8245	2.05
2 1/2	8246	2.62
3	8247	3.43
4	8248	8.89



One Piece Electro Galvanized Pipe Strap

Size (in.)	Part #	Price $
1/2	8520	2.80
3/4	8521	2.95
1	8522	3.15
1 1/4	8523	3.25
1 1/2	8524	3.35
2	8525	5.30
2 1/2	8526	5.65
3	8527	6.15
3 1/2	8528	6.65
4	8529	7.00
5	8530	9.80
6	8531	10.60
8	8532	12.25



Riser Clamp

Pipe Size (in.)	Max. Load (lbs.)	Electro Galvanized		18-8 SS	
		Part #	Price $	Part #	Price $
1/2	220	551005	4.91	550005-SS	16.80
3/4	220	551007	4.91	550007-SS	16.80
1	220	551010	5.12	550010-SS	18.16
1 1/4	250	551012	5.26	550012-SS	18.72
1 1/2	250	551015	5.47	550015-SS	19.62
2	300	551020	5.65	550020-SS	20.50
2 1/2	400	551025	7.65	550025-SS	29.86
3	500	551030	8.12	550030-SS	31.76
3 1/2	600	551035	15.86	550035-SS	POA
4	750	551040	10.78	550040-SS	44.32
5	1500	551050	14.55	550050-SS	51.14
6	1600	551060	17.75	550060-SS	62.94
8	2500	551080	31.11	550080-SS	98.48
10	2500	551100	44.66	550100-SS	146.10
12	2700	551120	58.06	550120-SS	218.26

NOTE: Available with PVC Coating and in 316 Stainless Steel.

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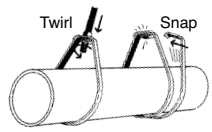
Hangers and Beam Clamps

Clevis Hanger



Size (in.)	Plain		Electro Galvanized		18-8 SS	
	Part #	Price $	Part #	Price $	Part #	Price $
1/2	8186	1.16	8186-EG	1.30	8186-SS	5.46
3/4	8187	1.16	8187-EG	1.34	8187-SS	5.74
1	8188	1.36	8188-EG	1.46	8188-SS	6.28
1 1/4	8189	1.46	8189-EG	1.55	8189-SS	6.50
1 1/2	8190	1.51	8190-EG	1.78	8190-SS	6.88
2	8191	1.67	8191-EG	2.00	8191-SS	7.52
2 1/2	8192	2.71	8192-EG	2.92	8192-SS	14.90
3	8193	2.89	8193-EG	3.35	8193-SS	14.78
3 1/2	8194	3.54	8194-EG	4.54	8194-SS	POA
4	8195	4.13	8195-EG	5.10	8195-SS	22.94
5	8196	6.17	8196-EG	7.10	8196-SS	35.80
6	8197	7.82	8197-EG	9.47	8197-SS	46.68
8	8198	12.93	8198-EG	14.38	8198-SS	70.68





Twirl Adjustable Galvanized Band Hanger Rod Size 3/8”

Size (in.)	Part #	Price $
1/2	8220	1.60
3/4	8221	1.60
1	8222	1.70
1 1/4	8223	1.70
1 1/2	8224	2.00
2	8225	2.10
2 1/2	8226	3.50
3	8227	3.50
3 1/2	8228	4.35
4	8229	4.70



Low Carbon Steel C-Clamp with Locknut

Rod Size (in.)	Plain		Electro Galvanized		18-8 SS	
	Part #	Price $	Part #	Price $	Part #	Price $
3/8	8199	1.74	8199-EG	2.08	8199-SS	14.04
1/2	8200	1.96	8200-EG	2.28	8200-SS	14.44
5/8	8201	10.42	8201-EG	12.72	-	POA
3/4	8202	13.10	8202-EG	14.60	-	POA

NOTE: Available in 316 Stainless Steel.



Malleable Iron C-Clamp with Locknut

Rod Size (in.)	Plain		Electro Galvanized	
	Part #	Price $	Part #	Price $
3/8	4090	2.26	4090-EG	5.62
1/2	4091	4.30	4091-EG	6.92
5/8	4092	6.56	4092-EG	8.82
3/4	4093	8.90	4093-EG	12.16



Malleable Iron Beam Clamp with Locknut

Rod Size (in.)	Plain		Electro Galvanized	
	Part #	Price $	Part #	Price $
3/8	4089	1.43	4089-EG	1.80
1/2	4095	1.76	4095-EG	2.10
5/8	4096	2.98	4096-EG	3.12
3/4	4097	4.86	4097-EG	5.18
7/8	4098	5.66	4098-EG	6.16

NOTE: 1/2” Available in 18-8 and 316 Stainless Steel



Malleable Iron Wide Mouth Beam Clamp with Locknut

Rod Size (in.)	Plain		Electro Galvanized	
	Part #	Price $	Part #	Price $
3/8	4099	2.34	4099-EG	6.99
1/2	4100	2.66	4100-EG	9.82
5/8	4101	6.32	4101-EG	18.18
3/4	4102	7.94	4102-EG	25.83



Top Beam Clamp with Locknut

Rod Size (in.)	Pre-Galvanized	Price $
3/8	4094-EG	1.18

Hardware and Bases



Standard Hex Nut

Rod Size (in.)	Electro Galvanized		18-8 SS		316 SS	
	Part #	Price $	Part #	Price $	Part #	Price $
1/4	110002	.08	110002-SS	.08	110002-SS316	.26
3/8	110003	.12	110003-SS	.10	110003-SS316	.30
1/2	110005	.14	110005-SS	.24	110005-SS316	.34
5/8	110006	.34	110006-SS	.48	110006-SS316	.66
3/4	110007	.38	110007-SS	.80	110007-SS316	1.04
7/8	110008	.90	110008-SS	1.18	110008-SS316	1.62
1	110010	1.26	110010-SS	1.78	110010-SS316	2.38



Flat Washer

Rod Size (in.)	Electro Galvanized		18-8 SS		316 SS	
	Part #	Price $	Part #	Price $	Part #	Price $
1/4	130002	.04	130002-SS	.06	130002-SS316	.08
3/8	130003	.08	130003-SS	.08	130003-SS316	.18
1/2	130005	.16	130005-SS	.16	130005-SS316	.22
5/8	130006	.16	130006-SS	.24	130006-SS316	.34
3/4	130007	.22	130007-SS	.56	130007-SS316	.62
7/8	130008	.26	130008-SS	.58	130008-SS316	.88
1	130010	.32	130010-SS	.72	130010-SS316	.90



Lock Washer

Rod Size (in.)	Electro Galvanized		18-8 SS		316 SS	
	Part #	Price $	Part #	Price $	Part #	Price $
3/8	134003	.06	134003-SS	.10	134003-SS316	.18
1/2	134005	.10	134005-SS	.18	134005-SS316	.26
5/8	134006	.18	134006-SS	.32	134006-SS316	.40
3/4	134007	.24	134007-SS	.50	134007-SS316	.70



Standard Rod Coupling

Rod Size (in.)	Electro Galvanized		18-8 SS		316 SS	
	Part #	Price $	Part #	Price $	Part #	Price $
1/4	100002	1.67	100002-SS	1.80	100002-SS316	3.66
3/8	100003	3.01	100003-SS	4.00	100003-SS316	4.74
1/2	100005	3.75	100005-SS	6.00	100005-SS316	8.26
5/8	100006	5.71	100006-SS	10.00	100006-SS316	13.34
3/4	100007	8.72	100007-SS	15.74	100007-SS316	16.66
7/8	100008	8.65	100008-SS	18.66	100008-SS316	42.66
1	100010	9.10	100010-SS	21.74	100010-SS316	46.40



Threaded Rod

Rod Size (in.)	Electro Galvanized		18-8 SS		316 SS	
	Part #	Price $	Part #	Price $	Part #	Price $
1/4	21002	.55	21002-SS	.74	21002-SS316	1.10
3/8	21003	1.07	21003-SS	1.38	21003-SS316	2.40
1/2	21005	1.88	21005-SS	2.98	21005-SS316	4.40
5/8	21006	3.11	21006-SS	4.00	21006-SS316	5.74
3/4	21007	4.54	21007-SS	6.94	21007-SS316	8.80
7/8	21008	6.55	21008-SS	9.82	21008-SS316	11.34
1	21010	11.53	21010-SS	12.32	21010-SS316	16.64

NOTE: Price Per Foot. Rods Sold in 6 ft. Lengths. Other Lengths Available.



"U" Bolt

Pipe Size (in.)	Electro Galvanized		18-8 SS	
	Part #	Price $	Part #	Price $
1/2	8173	.72	8173-SS	3.14
3/4	8174	.74	8174-SS	3.22
1	8175	.76	8175-SS	3.30
1 1/4	8176	1.74	8176-SS	6.52
1 1/2	8177	1.86	8177-SS	6.96
2	8178	2.22	8178-SS	7.88
2 1/2	8179	3.82	8179-SS	13.86
3	8180	4.48	8180-SS	14.40
3 1/2	8181	9.20	8181-SS	POA
4	8182	4.80	8182-SS	16.64
5	8183	5.34	8183-SS	20.64
6	8184	10.20	8184-SS	44.92
8	8185	12.16	8185-SS	51.74

NOTE: Available in 316 Stainless Steel.



Post Base for Single 1 5/8" Strut

Electro Galvanized		18-8 SS	
Part #	Price $	Part #	Price $
6025-EG	16.61	6025-SS	80.00

NOTE: Available in 316 Stainless Steel.



Post Base for Double 1 5/8" Strut

Electro Galvanized		18-8 SS	
Part #	Price $	Part #	Price $
6060-EG	34.50	6060-SS	118.54

NOTE: Available in 316 Stainless Steel.

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Material Technical Data

Physical Properties of Thermoplastic Piping Materials

ASTM Test Methods	Properties	MATERIAL PVC 12454-B	CPVC 23447-B	PVDF	Polypropylene
GENERAL					
D-792	Specific Gravity	1.38	1.55	1.76	.905
D-570	Water Absorption % 24 Hrs. @ 73°F	.05	.05	.04	.02
MECHANICAL					
D-638	Tensile Strength psi @ 73°F	7,940	8,400	6,000	5,000
D-638	Modulus of Elasticity in Tension psi @ 73°F x 10^5	4.2	4.2	2.1	1.7
D-790	Flexural Strength psi	14,500	15,600	9,700	7,000
D-256	Izod Impact Strength @ 73°F (Notched)	.65	3.0	3.8	1.3
THERMAL					
D-696	Coefficient of thermal Expansion in/in/°F 10^{-5}	3.0	3.8	7.9	5.0
C-177	Thermal Conductivity BTU/HR/Sq. Ft./ °F/in	1.2	.95	.79	1.2
D-648	Heat Distortion Temp. °F @ 66 psi	NA	238	284	220
D-648	Heat Distortion Temp. °F @ 264 psi	160	221	194	140
	Resistance to Heat °F at continuous Drainage	140	210	280	180
FLAMMABILITY					
D-2863	Limiting Oxygen Index (%)	43	60	44	17
E-84	Flame Spread	15-20	15	0	NA
	Underwriters Lab Rating	94V-O	94V-O	94V-O	94HB

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Pipe Technical Data

PVC Pipe Type I and Type II

SCHEDULE 40 NSF

Nominal Pipe Size (in.)	O.D.	Average I.D.	Min. Wall	Nominal Wt./ Ft.		Max. W.P. PSI *	
				Type I	Type II	Type I	Type II
1/8	.405	.261	.068	.045	.044	810	400
1/4	.540	.354	.088	.081	.080	780	390
3/8	.675	.483	.091	.109	.107	620	310
1/2	.840	.608	.109	.161	.158	600	300
3/4	1.050	.810	.113	.214	.210	480	240
1	1.315	1.033	.133	.315	.309	450	220
1 1/4	1.660	1.364	.140	.426	.417	370	180
1 1/2	1.900	1.592	.145	.509	.498	330	170
2	2.375	2.049	.154	.682	.668	280	140
2 1/2	2.875	2.445	.203	1.076	1.053	300	150
3	3.500	3.042	.216	1.409	1.379	260	130
3 1/2	4.000	3.520	.226	1.697	1.661	240	120
4	4.500	3.998	.237	2.006	1.963	220	110
5	5.563	5.017	.258	2.726	2.668	190	100
6	6.625	6.031	.280	3.535	3.460	180	90
8	8.625	7.943	.322	5.305	5.190	160	80
10	10.750	9.976	.365	7.532	7.368	140	70
12	12.750	11.890	.406	9.949	9.733	130	70
14	14.000	13.072	.437	11.810	—	130	—
16	16.000	14.940	.500	15.416	—	130	—

* For water at 73°F with solvent cemented joints. Threading not recommended for Schedule 40. Use 50% of indicated pressure rating (W.P.) for threaded pipe. For fluids other than water, see Chemical Resistance Guide.

SCHEDULE 80 NSF

Nominal Pipe Size (in.)	O.D.	Average I.D.	Min. Wall	Nominal Wt./ Ft.		Max. W.P. PSI *	
				Type I	Type II	Type I	Type II
1/8	.405	.203	.095	.058	.056	1230	610
1/4	.540	.288	.119	.100	.098	1130	570
3/8	.675	.407	.126	.138	.135	920	460
1/2	.840	.528	.147	.202	.197	850	420
3/4	1.050	.724	.154	.273	.268	690	340
1	1.315	.935	.179	.402	.394	630	320
1 1/4	1.660	1.256	.191	.554	.542	520	260
1 1/2	1.900	1.476	.200	.673	.659	470	240
2	2.375	1.913	.218	.932	.912	400	200
2 1/2	2.875	2.289	.276	1.419	1.389	420	210
3	3.500	2.864	.300	1.903	1.863	370	190
3 1/2	4.000	3.326	.318	2.322	2.273	350	170
4	4.500	3.786	.337	2.782	2.723	320	160
5	5.563	4.767	.375	3.867	3.784	290	140
6	6.625	5.709	.432	5.313	5.200	280	140
8	8.625	7.565	.500	8.058	7.883	250	120
10	10.750	9.492	.593	11.956	11.695	230	120
12	12.750	11.294	.687	16.437	—	230	—
14	14.000	12.410	.750	19.790	—	220	—
16	16.000	14.214	.843	25.430	—	220	—
18	18.000	16.014	.937	31.830	—	220	—

CPVC Pipe

SCHEDULE 40 NSF **

Nominal Pipe Size (in.)	O.D.	Average I.D.	Min. Wall	Nominal Wt./ Ft.	Max. W.P. PSI *
1/4	.540	.354	.088	.091	780
3/8	.675	.483	.091	.122	620
1/2	.840	.608	.109	.180	590
3/4	1.050	.810	.113	.239	480
1	1.315	1.033	.133	.352	450
1 1/4	1.660	1.364	.140	.475	365
1 1/2	1.900	1.592	.145	.568	330
2	2.375	2.049	.154	.761	275
2 1/2	2.875	2.445	.203	1.201	300
3	3.500	3.042	.216	1.572	260
3 1/2	4.000	3.520	.226	1.905	240
4	4.500	3.998	.237	2.239	220
6	6.625	6.031	.280	3.945	180
8	8.625	7.943	.322	5.958	160
10	10.750	9.976	.365	8.458	140
12	12.750	11.890	.406	11.172	130

* Water 73.4°F. For fluids other than water, see Chemical Resistance Guide.

SCHEDULE 80 NSF

Nominal Pipe Size (in.)	O.D.	Average I.D.	Min. Wall	Nominal Wt./ Ft.	Max. W.P. PSI *	
					Plain End	Threaded
1/4	.540	.288	.119	.112	1130	565
3/8	.675	.407	.126	.154	920	460
1/2	.840	.528	.147	.225	850	425
3/4	1.050	.724	.154	.305	690	345
1	1.315	.935	.179	.449	630	315
1 1/4	1.660	1.256	.191	.618	520	260
1 1/2	1.900	1.476	.200	.751	470	235
2	2.375	1.913	.218	1.040	400	200
2 1/2	2.875	2.289	.276	1.584	420	210
3	3.500	2.864	.300	2.124	370	185
3 1/2	4.000	3.326	.318	2.607	350	175
4	4.500	3.786	.337	3.105	320	160
6	6.625	5.709	.432	5.929	280	140
8	8.625	7.565	.500	9.051	250	125
10	10.750	9.492	.593	13.429	230	115
12	12.750	11.294	.687	18.458	230	115

** Pipe should not be threaded. Use flanged joints, unions, or grooved pipe couplings where disassembly is necessary. Operating above 140°F PVC and 200°F for CPVC are not recommended.

PVC PIPE

Working Temperature (°F)	De-Rating Factor
73	1.00
80	0.88
90	0.75
100	0.62
110	0.51
120	0.40
130 **	0.31
140 **	0.22

Temperature De-Rating Factors

PVC Pipe to be applied to 73.4°F working pressures with water for SDR, Sch. 40, 80, & 120 PVC pipe, either Type 1120 or 2110.

CPVC Pipe to be applied to 73.4°F working pressures with water for Schedule 40 & 80 CPVC pipe.

** Pipe should not be threaded. Use flanged joints, unions, or grooved pipe couplings where disassembly is necessary. Operating above 140°F PVC and 200°F for CPVC are not recommended.

CPVC PIPE

Working Temperature (°F)	De-Rating Factor
73	1.00
110	0.72
120	0.65
130	0.57
140 **	0.50
150 **	0.42
160 **	0.40
170 **	0.29
180 **	0.25
200 **	0.20

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Pipe Technical Data

ASTM Standards

(American Society for Testing and Materials)

ASTM Standard D-1784

This standard covers PVC and CPVC compounds used in the manufacture of plastic pipe, valves, and fittings. It provides a means for selecting and identifying compounds on the basis of a number of physical and chemical criteria. Conformance to a particular material classification in this standard requires meeting a number of minimum physical and chemical properties.

ASTM Standards D-2464 and F-437

These standards cover PVC (D-2464) and CPVC (F-437) Schedule 80 threaded pressure fittings. Thread dimensional specifications, wall thickness, burst, material quality, and identification requirements are specified.

ASTM Standards D-2467 and F-439

These standards cover Schedule 80 PVC (D-2467) and CPVC (F-493) Socket Type Pressure Fittings. Dimensions, burst strength, resin compound stipulation and scheme of product identification requirements are specified.

ASTM Standards D-4101 (Formerly D-2146)

This standard covers the polymeric content and physical characteristics of PP (polypropylene) Plastic Materials for injection molding and extrusion.

ASTM Standard D-2657

This standard covers the procedure for heat-fusion bonding of polylefin materials.

ASTM Standard D-3222

This standard covers the polymerization method and physical properties of PVDF (polyvinylidene fluoride) fluoroplastic Materials for molding and extrusion.

ANSI B1.20.1 (was B2.1)

(American National Standards Institute)

This specification details the dimensions and tolerance for tapered pipe threads. This standard is referenced in the ASTM standard for threaded fittings mentioned above.

ANSI B16.5

This specification sets forth standards for bolt holes, bolt circle, and overall dimensions for steel 150# flanges.

Temperature Correction Factors

Operating Temperature °F	FACTORS PVC	CPVC	PP	PVDF
70	1.00	1.00	1.00	1.00
80	0.90	0.96	0.97	0.95
90	0.75	0.92	0.91	0.87
100	0.62	0.85	0.85	0.80
110	0.50	0.77	0.80	0.75
115	0.45	0.74	0.77	0.71
120	0.40	0.70	0.75	0.68
125	0.35	0.66	0.71	0.66
130	0.30	0.62	0.68	0.62
140	0.22	0.55	0.65	0.58
150	N.R.	0.47	0.57	0.52
160	N.R.	0.40	0.50	0.49
170	N.R.	0.32	0.26	0.45
180	N.R.	0.25	*	0.42
200	N.R.	0.18	N.R.	0.36
210	N.R.	0.15	N.R.	0.33
240	N.R.	N.R.	N.R.	0.25
280	N.R.	N.R.	N.R.	0.18

* Recommended for intermittent drainage pressure not exceeding 20 psi.
N.R. — Not Recommended

Valves, Flanges and Unions

The maximum pressure rating for Chemtrol valves, flanges, and unions, regardless of size, is 150 psi at 73°F. As with all other thermoplastic piping components, the maximum non - shock operating pressure is related to temperature. Above 100°F refer to the chart below.

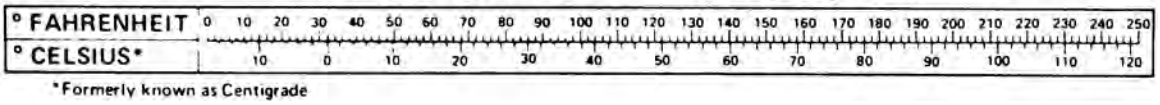
Max. Operating Pressure (psi) vs. Temperature

Operating Temperature °F	PVC	CPVC	PP	PVDF
100	150	150	150	150
110	135	140	140	150
120	110	130	130	150
130	75	120	118	150
140	50	110	105	150
150	N.R.	100	93	140
160	N.R.	90	80	133
170	N.R.	80	70	125
180	N.R.	70	50	115
190	N.R.	60	N.R.	106
200	N.R.	50	N.R.	97
250	N.R.	N.R.	N.R.	50
280	N.R.	N.R.	N.R.	25

N.R. — Not Recommended

Temperature Conversions

$F = C \times 1.8 + 32$ $\quad C = (F-32) \div 1.8$



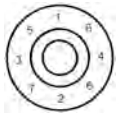
*Formerly known as Centigrade

°C	°F	°C	°F	°C	°F	°C	°F
-40.0	-40.0	-6.7	68.0	23.9	167.0	65.6	302.0
-37.2	-31.0	-3.9	77.0	26.7	176.0	71.1	320.0
-34.4	-22.0	-1.1	86.0	29.4	185.0	76.7	338.0
-31.7	-13.0	0	89.6	32.2	194.0	82.2	356.0
-28.9	-4.0	1.7	95.0	35.0	203.0	87.8	374.0
-26.1	5.0	4.4	104.0	37.8	212.0	93.3	392.0
-23.2	14.0	7.2	113.0	40.6	221.0	98.9	410.0
-20.6	23.0	10.0	122.0	43.3	230.0	104.4	428.0
-17.8	32.0	12.8	131.0	46.1	239.0	110.0	446.0
-15.0	41.0	15.6	140.0	48.9	248.0	115.6	464.0
-12.2	50.0	18.3	149.0	54.4	266.0	121.0	482.0
-9.4	59.0	21.1	158.0	60.0	284.0	149.0	572.0

Flange Sz.	Torque *
1/2-1 1/2"	10-15 ft. lb
2 - 4"	20-30 ft. lb
6 - 8"	33-50 ft. lb
10"	53-75 ft. lb
12"	80-110 ft. lb

* For a well lubricated bolt with flat washers under bolt head and nut.

The following tighten pattern is suggested for the flange bolts.



Pipe Technical Data

Support Spacing (ft.) for PVC Pipe*

Horizontal pipe systems support spacings are greatly influenced by operating temperature. The charts show the recommended support spacing according to size, schedule, and operating temperatures. Do not clamp supports tightly — this restricts axial movement of the pipe. If short spacing is necessary, continuous supports may be more economical. Charts are based on liquids up to 1.00 specific gravity, but do not include concentrated loads, nor do they include allowance for aggressive reagents.

Pipe Size (in.)	SCHEDULE 40 Temperature °F					SCHEDULE 80 Temperature °F					SCHEDULE 120 Temperature °F				
	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°
1/4	4	3 1/2	3 1/2	2	2	4	4	3 1/2	2 1/2	2					
3/8	4	4	3 1/2	2 1/2	2	4 1/2	4 1/2	4	2 1/2	2 1/2					
1/2	4 1/2	4 1/2	4	2 1/2	2 1/2	5	4 1/2	4 1/2	3	2 1/2	5	5	4 1/2	3	2 1/2
3/4	5	4 1/2	4	2 1/2	2 1/2	5 1/2	5	4 1/2	3	2 1/2	5 1/2	5	4 1/2	3	3
1	5 1/2	5	4 1/2	3	2 1/2	6	5 1/2	5	3 1/2	3	6	5 1/2	5	3 1/2	3
1 1/14	5 1/2	5 1/2	5	3	3	6	6	5 1/2	3 1/2	3	6 1/2	6	5 1/2	3 1/2	3 1/2
1 1/2	6	5 1/2	5	3 1/2	3	6 1/2	6	5 1/2	3 1/2	3 1/2	6 1/2	6 1/2	6	4	3 1/2
2	6	5 1/2	5	3 1/2	3	7	6 1/2	6	4	3 1/2	7 1/2	7	6 1/2	4	3 1/2
2 1/2	7	6 1/2	6	4	3 1/2	7 1/2	7 1/2	6 1/2	4 1/2	4	8	7 1/2	7	4 1/2	4
3	7	7	6	4	3 1/2	8	7 1/2	7	4 1/2	4	8 1/2	8	7 1/2	5	4 1/2
3 1/2	7 1/2	7	6 1/2	4	4	8 1/2	8	7 1/2	5	4 1/2	9	8 1/2	7 1/2	5	4 1/2
4	7 1/2	7	6 1/2	4 1/2	4	9	8 1/2	7 1/2	5	4 1/2	9 1/2	9	8 1/2	5 1/2	5
5	8	7 1/2	7	4 1/2	4	9 1/2	9	8	5 1/2	5	10 1/2	10	9	6	5 1/2
6	8 1/2	8	7 1/2	5	4 1/2	10	9 1/2	9	6	5	11 1/2	10 1/2	9 1/2	6 1/2	6
8	9	8 1/2	8	5	4 1/2	11	10 1/2	9 1/2	6 1/2	5 1/2					
10	10	9	8 1/2	5 1/2	5	12	11	10	7	6					
12	11 1/2	10 1/2	9 1/2	6 1/2	5 1/2	13	12	10 1/2	7 1/2	6 1/2					
14	12	11	10	7	6	13 1/2	13	11	8	7					
16	12 1/2	11 1/2	10 1/2	7 1/2	6 1/2	14	13 1/2	11 1/2	8 1/2	7 1/2					
	SDR 41					SDR 26									
18	13	12	11	8	7	14 1/2	14	12	9	8					
20	13 1/2	12 1/2	11 1/2	8 1/2	7 1/2	15	14 1/2	12 1/2	9 1/2	8 1/2					
24	14	13	12	9	8	15 1/2	15	13	10	9					

Note: Although support spacing is shown at 140°F. consideration should be given to the use of CPVC or continuous support above 120°F. The possibility of temperature overrides beyond regular working temperatures and cost may make either of the alternatives more desirable. This chart based on continuous spans and for uninsulated line carrying fluids of specific gravity up to 1.00.

Support Spacing (ft.) for CPVC Pipe*

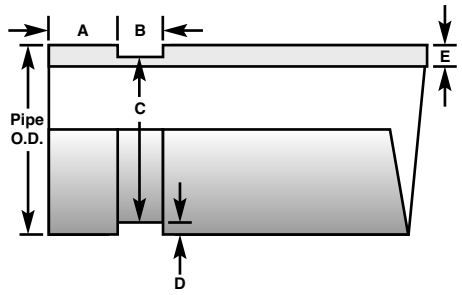
Pipe Size (in.)	SCHEDULE 40 Temperature °F						SCHEDULE 80 Temperature °F					
	73°	100°	120°	140°	160°	180°	73°	100°	120°	140°	160°	180°
1/2	5	4 1/2	4 1/2	4	2 1/2	2 1/2	5 1/2	5	4 1/2	4 1/2	3	2 1/2
3/4	5	5	4 1/2	4	2 1/2	2 1/2	5 1/2	5 1/2	5	4 1/2	3	2 1/2
1	5 1/2	5 1/2	5	4 1/2	3	2 1/2	6	6	5 1/2	5	3 1/2	3
1 1/4	5 1/2	5 1/2	5 1/2	5	3	3	6 1/2	6	6	5 1/2	3 1/2	3
1 1/2	6	6	5 1/2	5	3 1/2	3	7	6 1/2	6	5 1/2	3 1/2	3 1/2
2	6	6	5 1/2	5	3 1/2	3	7	7	6 1/2	6	4	3 1/2
2 1/2	7	7	6 1/2	6	4	3 1/2	8	7 1/2	7 1/2	6 1/2	4 1/2	4
3	7	7	7	6	4	3 1/2	8	8	7 1/2	7	4 1/2	4
3 1/2	7 1/2	7 1/2	7	6 1/2	4	4	8 1/2	8 1/2	8	7 1/2	5	4 1/2
4	7 1/2	7 1/2	7	6 1/2	4 1/2	4	8 1/2	9	8 1/2	7 1/2	5	4 1/2
6	8 1/2	8	7 1/2	7	5	4 1/2	10	9 1/2	9	8	5 1/2	5
8	9 1/2	9	8 1/2	7 1/2	5 1/2	5	11	10 1/2	10	9	6	5 1/2
10	10 1/2	10	9 1/2	8	6	5 1/2	11 1/2	11	10 1/2	9 1/2	6 1/2	6
12	11 1/2	10 1/2	10	8 1/2	6 1/2	6	12 1/2	12	11 1/2	10 1/2	7 1/2	6 1/2

Note: This chart based on continuous spans for uninsulated line carrying fluids of specific gravity up to 1.00.

* NOTE: The data furnished herein is based on information furnished by manufacturers of the raw material. This information may be considered as a basis for recommendation, but not as a guarantee. Materials should be tested under actual service to determine suitability for a particular purpose.

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Standard Cut Groove Specifications for Steel and Other IPS Pipe



Cut grooving standard steel pipe removes less metal, to less depth, than threading, maintaining the desired integrity of the pipe.

Standard Cut Groove Specifications for Steel and Other IPS Pipe - Dimensions in Inches

Nominal Size	Pipe O.D.			Gasket Seat (A)	Groove Width (B)	Grove Diameter (C)		Groove Depth (D)	Minimum Allowance Wall Thickness (E)
	Basic	Tolerance		Tolerance ±0.03 ±0.76	Tolerance ±0.03 ±0.76	Basic	Tolerance +0.000		
		+	-						
3/4	1.050	0.010	0.010	0.625	0.313	0.938	-0.015	0.056	0.113
1	1.315	0.013	0.013	0.625	0.313	1.190	-0.015	0.063	0.113
1 1/4	1.660	0.016	0.016	0.625	0.313	1.535	-0.015	0.063	0.140
1 1/2	1.900	0.019	0.019	0.625	0.313	1.775	-0.015	0.063	0.145
2	2.375	0.024	0.024	0.625	0.313	2.250	-0.015	0.063	0.154
2 1/2	2.875	0.029	0.029	0.625	0.313	2.720	-0.018	0.078	0.188
3	3.500	0.035	0.031	0.625	0.313	3.344	-0.018	0.078	0.188
4	4.500	0.045	0.031	0.625	0.375	4.334	-0.020	0.083	0.203
6	6.625	0.063	0.031	0.625	0.375	6.455	-0.022	0.085	0.219

Friction Loss & Flow Velocity

Schedule 40 Pipe

Friction Loss Ft. Water / 100 Ft. — Velocity Ft. / Second

Gals. Per Min.	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"	
	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss
1	1.13	2.08	0.63	0.51												
2	2.26	4.16	1.26	1.02	0.77	0.55	0.44	0.14	0.33	0.07						
5	5.64	23.44	3.16	5.73	1.93	1.72	1.11	0.44	0.81	0.22	0.49	0.066	0.30	0.038	0.22	0.015
7	7.90	43.06	4.43	10.52	2.72	3.17	1.55	0.81	1.13	0.38	0.69	0.11	0.49	0.051	0.31	0.021
10	11.28	82.02	6.32	20.04	3.86	6.02	2.21	1.55	1.62	0.72	0.98	0.21	0.68	0.09	0.44	0.03
15	4 in.		9.48	42.46	5.79	12.77	3.31	3.28	2.42	1.53	1.46	0.45	1.03	0.19	0.66	0.07
20	0.51	0.03	12.65	72.34	7.72	21.75	4.42	5.59	3.23	2.61	1.95	0.76	1.37	0.32	0.88	0.11
25	0.64	0.04	5 in.		9.65	32.88	5.52	8.45	4.04	3.95	2.44	1.15	1.71	0.49	1.10	0.17
30	0.77	0.06	0.49	0.02	11.58	46.08	6.63	11.85	4.85	5.53	2.93	1.62	2.05	0.68	1.33	0.23
35	0.89	0.08	0.57	0.03			7.73	15.76	5.66	7.36	3.41	2.15	2.39	0.91	1.55	0.31
40	1.02	0.11	0.65	0.03			8.84	20.18	6.47	9.43	3.90	2.75	2.73	1.16	1.77	0.40
45	1.15	0.13	0.73	0.04	6 in.		9.94	25.10	7.27	11.73	4.39	3.43	3.08	1.44	1.99	0.50
50	1.28	0.16	0.81	0.05	0.56	0.02	11.05	30.51	8.08	14.25	4.88	4.16	3.42	1.75	2.21	0.60
60	1.53	0.22	0.97	0.07	0.67	0.03			9.70	19.98	5.85	5.84	4.10	2.46	2.65	0.85
70	1.79	0.30	1.14	0.10	0.79	0.04					6.83	7.76	4.79	3.27	3.09	1.13
75	1.92	0.34	1.22	0.11	0.84	0.05					7.32	8.82	5.13	3.71	3.31	1.28
80	2.05	0.38	1.30	0.13	0.90	0.05					7.80	9.94	5.47	4.19	3.53	1.44
90	2.30	0.47	1.46	0.16	1.01	0.06	8 in.				8.78	12.37	6.15	5.21	3.98	1.80
100	2.56	0.58	1.62	0.19	1.12	0.08	0.65	0.03			9.75	15.03	6.84	6.33	4.42	2.18
125	3.20	0.88	2.03	0.29	1.41	0.12	0.81	0.035					8.55	9.58	5.52	3.31
150	3.84	1.22	2.44	0.40	1.69	0.16	0.97	0.04					10.26	13.41	6.63	4.63
175	4.48	1.63	2.84	0.54	1.97	0.22	1.14	0.055	10 in.						7.73	6.16
200	5.11	2.08	3.25	0.69	2.25	0.28	1.30	0.07	0.82	0.027					8.83	7.88
250	6.40	3.15	4.06	1.05	2.81	0.43	1.63	0.11	1.03	0.035					11.04	11.93
300	7.67	4.41	4.87	1.46	3.37	0.60	1.94	0.16	1.23	0.05	12 in.					
350	8.95	5.87	5.69	1.95	3.94	0.79	2.27	0.21	1.44	0.065	1.01	0.027				
400	10.23	7.52	6.50	2.49	4.49	1.01	2.59	0.27	1.64	0.09	1.16	0.04				
450			7.31	3.09	5.06	1.26	2.92	0.33	1.85	0.11	1.30	0.05				
500			8.12	3.76	5.62	1.53	3.24	0.40	2.05	0.13	1.45	0.06				
750							4.86	0.85	3.08	0.28	2.17	0.12				
1000							6.48	1.45	4.11	0.48	2.89	0.20				
1250									5.14	0.73	3.62	0.31				
1500									6.16	1.01	4.34	0.43				
2000											5.78	0.73				
2500											7.23	1.11				

NOTE: In larger diameters, particularly 6" and greater, it is recommended that velocities be maintained at or below 5 feet per second.

FRICTION LOSS THROUGH FITTINGS

Friction loss through fittings is expressed in equivalent feet of the same pipe size and schedule for the system flow rate.

Schedule 40 head loss per 100' valves are usually used for other wall thicknesses and standard iron pipe size O.D.'s.

Average Friction Loss for PVC and CPVC Fittings in Equivalent Feet of Straight Run Pipe

Item	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
Tee Run	1.0	1.4	1.7	2.3	2.7	4.0	4.9	6.1	7.9	12.3	14.0	17.5	20.0	25.0	27.0	32.0	35.0	42.0
Tee Branch	3.8	4.9	6.0	7.3	8.4	12.0	14.7	16.4	22.0	32.7	49.0	57.0	67.0	78.0	88.0	107.0	118.0	137.0
90° Ell	1.5	2.0	2.5	3.8	4.0	5.7	6.9	7.9	11.4	16.7	21.0	26.0	32.0	37.0	43.0	53.0	58.0	67.0
45° Ell	.8	1.1	1.4	1.8	2.1	2.6	3.1	4.0	5.1	8.0	10.6	13.5	15.5	18.0	20.0	23.0	25.0	30.0

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Friction Loss & Flow Velocity

Schedule 80 Pipe

Friction Loss Ft. Water / 100 Ft. — Velocity Ft. / Second

Gals. Per Min.	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"	
	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss	Vel	Loss
1	1.48	4.02	0.74	0.86												
2	2.95	8.03	1.57	1.72	0.94	0.88	0.52	0.21	0.38	0.10						
5	7.39	45.23	3.92	9.67	2.34	2.75	1.30	0.66	0.94	0.30	0.56	0.10	0.39	0.05	0.25	0.02
7	10.34	83.07	5.49	17.76	3.28	5.04	1.82	1.21	1.32	0.55	0.78	0.15	0.54	0.07	0.35	0.028
10			7.84	33.84	4.68	9.61	2.60	2.30	1.88	1.04	1.12	0.29	0.78	0.12	0.50	0.04
15	4 in.		11.76	71.70	7.01	20.36	3.90	4.87	2.81	2.20	1.68	0.62	1.17	0.26	0.75	0.09
20	0.57	0.04			9.35	34.68	5.20	8.30	3.75	3.75	2.23	1.06	1.56	0.44	1.00	0.15
25	0.72	0.06	5 in.		11.69	52.43	6.50	12.55	4.69	5.67	2.79	1.60	1.95	0.67	1.25	0.22
30	0.86	0.08	0.54	0.03	14.03	73.48	7.80	17.59	5.63	7.95	3.35	2.25	2.34	0.94	1.49	0.31
35	1.00	0.11	0.63	0.04			9.10	23.40	6.57	10.58	3.91	2.99	2.73	1.25	1.74	0.42
40	1.15	0.14	0.72	0.04			10.40	29.97	7.50	13.55	4.47	3.83	3.12	1.60	1.99	0.54
45	1.29	0.17	0.81	0.06	6 in.		11.70	37.27	8.44	16.85	5.03	4.76	3.51	1.99	2.24	0.67
50	1.43	0.21	0.90	0.07	0.63	0.03	13.00	45.30	9.38	20.48	5.58	5.79	3.90	2.42	2.49	0.81
60	1.72	0.30	1.08	0.10	0.75	0.04			11.26	28.70	6.70	8.12	4.68	3.39	2.99	1.14
70	2.01	0.39	1.26	0.13	0.88	0.05					7.82	10.80	5.46	4.51	3.49	1.51
75	2.15	0.45	1.35	0.14	0.94	0.06					8.38	12.27	5.85	5.12	3.74	1.72
80	2.29	0.50	1.44	0.16	1.00	0.07					8.93	13.83	6.24	5.77	3.99	1.94
90	2.58	0.63	1.62	0.20	1.13	0.08					10.05	17.20	7.02	7.18	4.48	2.41
100	2.87	0.76	1.80	0.24	1.25	0.10	8 in.				11.17	20.90	7.80	8.72	4.98	2.93
125	3.59	1.16	2.25	0.37	1.57	0.16	0.90	0.045					9.75	13.21	6.23	4.43
150	4.30	1.61	2.70	0.52	1.88	0.22	1.07	0.05					11.70	18.48	7.47	6.20
175	5.02	2.15	3.15	0.69	2.20	0.29	1.25	0.075	10 in.						8.72	8.26
200	5.73	2.75	3.60	0.88	2.51	0.37	1.43	0.09	0.90	0.036					9.97	10.57
250	7.16	4.16	4.50	1.34	3.14	0.56	1.79	0.14	1.14	0.045					12.46	16.00
300	8.60	5.83	5.40	1.87	3.76	0.78	2.14	0.20	1.36	0.07	12 in.					
350	10.03	7.76	6.30	2.49	4.39	1.04	2.50	0.27	1.59	0.085	1.12	0.037				
400	11.47	9.93	7.19	3.19	5.02	1.33	2.86	0.34	1.81	0.11	1.28	0.05				
450			8.09	3.97	5.64	1.65	3.21	0.42	2.04	0.14	1.44	0.06				
500			8.99	4.82	6.27	2.00	3.57	0.51	2.27	0.17	1.60	0.07				
750							5.36	1.08	3.40	0.36	2.40	0.15				
1000							7.14	1.84	4.54	0.61	3.20	0.26				
1250									5.67	0.92	4.01	0.40				
1500									6.80	1.29	4.81	0.55				
2000											6.41	0.94				
2500																

NOTE: In larger diameters, particularly 6" and greater, it is recommended that velocities be maintained at or below 5 feet per second.

FRICTION LOSS THROUGH FITTINGS

Friction loss through fittings is expressed in equivalent feet of the same pipe size and schedule for the system flow rate.

Schedule 40 head loss per 100' valves are usually used for other wall thicknesses and standard iron pipe size O.D.'s.

Average Friction Loss for PVC and CPVC Fittings in Equivalent Feet of Straight Run Pipe

Item	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
Tee Run	1.0	1.4	1.7	2.3	2.7	4.0	4.9	6.1	7.9	12.3	14.0	17.5	20.0	25.0	27.0	32.0	35.0	42.0
Tee Branch	3.8	4.9	6.0	7.3	8.4	12.0	14.7	16.4	22.0	32.7	49.0	57.0	67.0	78.0	88.0	107.0	118.0	137.0
90° Ell	1.5	2.0	2.5	3.8	4.0	5.7	6.9	7.9	11.4	16.7	21.0	26.0	32.0	37.0	43.0	53.0	58.0	67.0
45° Ell	.8	1.1	1.4	1.8	2.1	2.6	3.1	4.0	5.1	8.0	10.6	13.5	15.5	18.0	20.0	23.0	25.0	30.0

Conversion Factors

Liquid Measure and Weight

To Obtain Multiply by	U.S. Gallon	Imperial Gallon	U.S. Pound Water	U.S. Cubic Foot	U.S. Cubic Inch	Liter	Cubic Meter
U.S. Gallon	1	0.8327	8.337	0.13368	231.0	3.785	0.003785
Imperial Gallon	1.2009	1	10.0	0.16054	277.78	4.546	0.004546
U.S. Pound Water	0.11995	0.1	1	0.016035	27.708	0.45404	0.000454
U.S. Cubic Feet	7.4805	6.2288	62.365	1	1728.0	28.316	0.028314
U.S. Cubic Inch	0.004329	0.00360	0.03609	0.000578	1	0.016387	0.0000164
Liter	0.26418	0.21997	2.202	0.035315	61.025	1	0.0010
Cubic Meter	264.2	219.99	2202.6	35.3183	61030.0	999.97	1

Pressure and Head

To Obtain Multiply By	pound sq. inch	pound sq. foot	Atmo-sphere	kilogram sq. cm	inch water	foot water	inch mercury	mm mercury	bar
pound/sq. inch	1	144.0	0.068046	0.070307	27.7276	2.3106	2.0360	51.7150	0.06895
pound/sq. foot	0.006945	1	0.000473	0.000488	0.1926	0.01605	0.014139	0.35913	0.000479
Atmosphere	14.696	2116.22	1	1.0332	407.484	33.9570	29.921	760.0	1.01325
kilogram/sq. cm.	14.2233	2048.16	0.96784	1	394.27	32.864	28.959	735.558	0.9807
inch water	0.03607	5.194	0.002454	0.00254	1	0.08333	0.0734	1.865	0.00249
foot water	0.43278	62.3205	0.029449	0.03043	12.0	1	0.8811	22.381	0.02984
inch mercury	0.49115	70.726	0.033421	0.03453	13.617	1.1349	1	25.40	0.03386
mm mercury	0.019337	2.7845	0.0013158	0.0013595	0.5361	0.04468	0.03937	1	0.001333
bar	14.5038	2088.55	0.98692	1.0197	402.1	33.51	29.53	750.0	1

To convert from one unit to another, locate the starting unit in the left hand column. Multiply by the factor shown horizontally to the right under the desired unit.

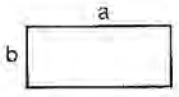
Area and Volume Formulas

A = Area S = Surface area of solid V = Volume C = Circumference R = Radius of circumscribed circle

Rectangle

A = a * b

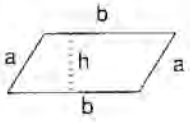
C = 2 * a + 2 * b



Parallelogram

A = b * h

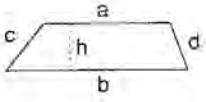
C = 2 * a + 2 * b



Trapezoid

A = .5 * (a+b) * h

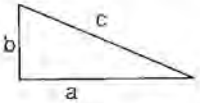
C = a+b+c+d



Right Triangle

A = .5 * a * b

R = .5 * c

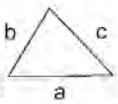


General Triangle

S = .5 * (a+b+c)

A = $\sqrt{s * (s-a) * (s-b) * (s-c)}$

R = a * b * c/(.25 * A)



Circle

A = 3.142 * r * r

C = 6.283 * r



Sector of Circle

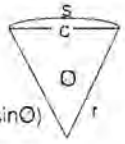
Central angle Ø measured in radians

s = r * Ø

c = 2 * r * sin(Ø/2)

A (sector) = .5 * r * s

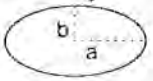
A (segment) = .5 * r * r * (Ø-sinØ)



Ellipse

A = 3.142 * a * b

C = 6.284 * $\sqrt{(a * a+b * b)/2}$



Cylinder

V = 3.142 * r * r * h

S = 6.284 * r * h



Cone

V = 1.047 * r * r * h

S = 3.142 * r * $\sqrt{r * r+h * h}$



Sphere

V = 4.189 * r * r * r

S = 12.57 * r * r



Frustum of Right Circular Cone

V = 1.047 * h * [a * a+b * b+a * b]

S = 3.142 * [a+b] * $\sqrt{(a-b) * * 2+h * h}$



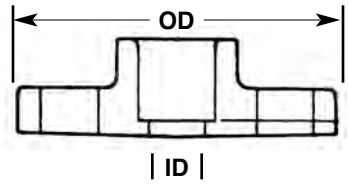
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Technical Data



Flanges
Schedule 80
Class 150 ANSI



Nominal Pipe Size	OD	ID	Number of Holes	Dia. of Bolt Circle
1/2	3 1/2	.528	4	2 3/8
3/4	3 7/8	.724	4	2 3/4
1	4 1/4	.935	4	3 1/8
1 1/4	4 5/8	1.256	4	3 1/2
1 1/2	5	1.476	4	3 7/8
2	6	1.913	4	4 3/4
2 1/2	7	2.289	4	5 1/2
3	7 1/2	2.864	4	6
4	9	3.786	8	7 1/2
6	11	5.709	8	9 1/2
8	13 1/2	7.565	8	11 3/4
10	16	9.492	12	14 1/4
12	19	11.294	12	17

Drill Sizes for Pipe Taps

Tap Size	Threads Per in.	Diam. of Drill	Tap Size	Threads Per in.	Diam. of Drill
1/8	27	11/32	2	11 1/2	2 3/16
1/4	18	7/16	2 1/2	8	2 9/16
3/8	18	37/64	3	8	3 3/16
1/2	14	23/32	3 1/2	8	3 11/16
3/4	14	59/64	4	8	4 3/16
1	11 1/2	1 5/32	4 1/2	8	4 3/4
1 1/4	11 1/2	1 1/2	5	8	5 5/16
1 1/2	11 1/2	1 49/64	6	8	6 5/16

Pipe and Water Weight Per Line Foot

Nominal Pipe Size	WEIGHT OF: Std. Pipe	Water	WEIGHT OF: XS Pipe	Water
1/2	.851	.132	1.088	.101
3/4	1.131	.231	1.474	.187
1	1.679	.374	2.172	.311
1 1/4	2.273	.648	2.997	.555
1 1/2	2.718	.882	3.632	.765
2	3.653	1.453	5.022	1.278
2 1/2	5.794	2.073	7.622	1.835
3	7.580	3.200	10.250	2.860
3 1/2	9.110	4.280	12.510	3.850
4	10.790	5.510	14.990	4.980
5	14.620	8.660	20.780	7.880
6	18.980	12.510	28.580	11.290
8	28.560	21.680	43.400	19.800
10	40.500	34.100	54.700	32.300
12	49.600	49.000	65.400	47.000
14	54.600	59.700	72.100	57.500
16	62.600	79.100	82.800	76.500
18	70.600	101.200	93.500	98.300
20	78.600	126.000	104.100	122.800
24	94.600	183.800	125.500	179.900
30	118.700	291.000	157.600	286.000

Feet Head Of Water To PSI

Feet Head	Pounds Square Inch	Feet Head	Pounds Square Inch
1	.43	100	43.31
2	.87	110	47.64
3	1.30	120	51.97
4	1.73	130	56.30
5	2.17	140	60.63
6	2.60	150	64.96
7	3.03	160	69.29
8	3.46	170	73.63
9	3.90	180	77.96
10	4.33	200	86.62
15	6.50	250	108.27
20	8.66	300	129.93
25	10.83	350	151.58
30	12.99	400	173.24
40	17.32	500	216.55
50	21.65	600	259.85
60	25.99	700	303.16
70	30.32	800	346.47
80	34.65	900	389.78
90	38.98	1000	433.00

Note: One foot of water at 62° F. equals .433 pound pressure per square inch. To find the pressure per square inch for any feet head not given in the table above, multiply the feet head by .433.

Water Pressure To Feet Head

Pounds Per Square Inch	Feet Head	Pounds Per Square Inch	Feet Head
1	2.31	100	230.90
2	4.62	110	253.93
3	6.93	120	277.07
4	9.24	130	300.16
5	11.54	140	323.25
6	13.85	150	346.34
7	16.16	160	369.43
8	18.47	170	392.52
9	20.78	180	415.61
10	23.09	200	461.78
15	34.63	250	577.24
20	46.18	300	692.69
25	57.72	350	808.13
30	69.27	400	922.58
40	92.36	500	1154.48
50	115.45	600	1385.39
60	138.54	700	1616.30
70	161.63	800	1847.20
80	184.72	900	2078.10
90	207.81	1000	2309.00

To find feet head of water multiply pressure pounds per square inch by 2.309.

Flanged joints between plastic pipes and metal pipes (with flat gaskets).

Where the transition is made from plastic to metal, the flanged joints usually incorporate a flat gasket. It is not permissible to use plasticized PVC seals in conjunction with PVC flange adaptors, as this can lead to stress corrosion cracking due to migration of the plasticizer.

Flanges with flat gaskets must have sufficient stability to withstand higher torques required when tightening the bolts in this jointing method.

In case of flanged joints with flat gaskets, the bolts should also be tightened with the aid of a torque wrench in order to prevent damage to the flanges or flange adaptors. Approximate values for the torque required, depending upon the pipe diameter, are given in the table below.

Georg Fischer GF Recommended Torque Values

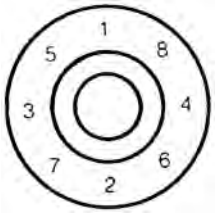
Pipe OD	mm	16	20	25	32	40	50	63	75	90	110	125	140	160	200	225
Diameter	inch	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	4 1/2	5	6	7	8
Torque	Nm	6	7	9	10	20	25	30	35	40	45	45	50	60	75	75
Torque	Ft. Lbs.	4.4	5.2	6.6	7.4	14.8	18.4	22.1	25.8	29.5	33.2	33.2	36.9	44.3	55.3	55.3

Chemtrol Recommended Torque Values

Flange Size	Recommended Torque *
1/2 - 1 1/2”	10 - 15 Ft. Lbs.
2 - 4”	20 - 30 Ft. Lbs.
6 - 8”	33 - 50 Ft. Lbs.
10”	53 - 75 Ft. Lbs.
12”	80 - 110 Ft. Lbs.

* For a well lubricated bolt with flat washers under bolt head and nut.

The following tightening pattern is suggested for the flange bolts.



Bulkhead Fitting Sizing Chart for Tanks

Threaded Bulkhead Fitting

Threaded bulkhead fittings are available for below liquid level installation depending on the tank diameter and placement of the fitting in the tank. Fittings must be placed away from tank knuckle radius’ and flange lines. Consult sales office for placement questions. The maximum allowable size for bulkhead fittings placed on a curved cylindrical section of tanks 48 in. to 142 in diameter is 2 inch.

Note: Tank wall thickness must be considered for bulkhead fitting placement. The maximum wall thickness and tank diameter sizes are shown below.

Bolted 150 lb. Flange Fitting

Bolted flange fittings are required for below liquid level installation for sizes above 2 to 4 in. depending on the tank diameter and the placement of the fitting in the tank. Fittings must be placed away from tank knuckle radius’ and flange lines. Consult sales office for placement questions. Bolted double flange fittings provide the best strength and sealing characteristics of any tank fitting available. Allowable fittings sizes based on tank diameter for curved surfaces are shown below. Note: The bolted double flange fittings shall allow tank wall thickness up to 2 1/2 in.

Minimum ID of Tanks For Bulkhead Fitting Installation	
Bulkhead Size (in.)	Minimum Rigid Tank ID
1/4	7.25
3/8	7.25
1/2	7.25
3/4	10.00
1	11.75
1 1/4	16.25
1 1/2	16.25
2	25.75
3	42.50
4	90.00

Hole Sizing Chart For Bulkhead Fittings			
Bulkhead Size	Hole Saw Size	Bulkhead Size	Hole Saw Size
1/4”	-	1 1/2”	2 3/8”
3/8”	-	2”	3 1/4”
1/2”	1 3/8”	3”	4 1/2”
3/4”	1 5/8”	4”	5 3/4”
1”	1 7/8”	6”	-
1 1/4”	2 3/8”	Note: Use jig saw for 6”	

Conversion Factors / Abbreviations

Basic Unit of Measurement - Length (Meter)

U.S. TO METRIC	METRIC TO U.S.
1 inch = 25.40 millimeters	1 millimeter = 0.03937 inch
1 inch = 2.540 centimeters	1 centimeter = 0.3937 inch
1 foot = 30.480 centimeters	1 meter = 39.37 inches
1 foot = 0.3048 meter	1 meter = 3.2808 feet
1 yard = 91.440 centimeter	1 meter = 1.0936 yards
1 yard = 0.9144 meter	1 kilometer = 0.62137 mile
1 mile = 1.609 kilometers	

AREA

U.S. TO METRIC	METRIC TO U.S.
1 sq. inch = 645.16 sq. millimeters	1 sq. millimeter = 0.00155 sq. inch
1 sq. inch = 6.4516 sq. centimeters	1 sq. centimeter = 0.1550 sq. inch
1 sq. foot = 929.03 sq. centimeters	1 sq. meter = 10.7640 sq. feet
1 sq. foot = 0.0929 sq. meter	1 sq. meter = 1.196 sq. yards
1 sq. yard = 0.836 sq. meter	1 sq. hectometer = 2.471 acres
1 acre = 0.4047 sq. hectometer	1 hectare = 2.471 acres
1 acre = 0.4047 hectare	1 sq. kilometer = 0.386 sq. mile
1 sq. mile = 2.59 sq. kilometers	

CONVERSION TABLE

To Convert Liquid	To	Formula
Gallons	Liters	Gallons x 3.785 = Litters
Liters	Gallons	Liters x .2642 = Gallons
Ounces	Milliliters	Ounces x 29.57 = Milliliters
Milliliters/Min	Gal. Per Hour	Ml/Mn x .0158 = Gal. Per Hr
Feet of Water	PSI	Ft/Head x .4335 = PSI
Gallons	Pounds	Gallons x 8.337 = Pounds
Gallons	Cubic Feet	Gallons x .1337 = Cubic Ft
Gallons	Cubic Inches	Gallons x 231 = Cubic In.
Gallons/Day	Milliliters/Min	Gal/Day x 2.628 = Mil/Min

Miscellaneous		
To Convert	To	Formula
PSI	KGS/SQ. CM.	PSI x .0703 = KGS/SQ. CM.
KGS/SQ. CM.	PSI	KGS/SQ. CM. x 14.22 = PSI
Inches	Millimeters	Inches x 25.4 = Millimeters
Millimeters	Inches	Millimeters x .03937 = In.
Bars	PSI	Bars x 14.5 = PSI
PSI	Bars	PSI ÷ 14.5 = Bars
PSI Correction Factor		$\sqrt{(14.7 + \text{Working PSIG}) \div 14.7}$
Temp Correction Factor		$\sqrt{520 \div (460 + \text{Working Temp °F})}$

Abbreviations

AGA	American Gas Association
ANSI	American National Standards Institute
API	American Petroleum Institute
AQL	Acceptable Quality Level
ASME	American Society for Testing & Materials
AWWA	American Water Works Association
BOCA	Building Officials & Code Administrators
BS	British Standards Institution
CPVC	Chlorinated Polyvinyl Chloride
CSA	Canadian Standards Association
DIN	German Industrial Norms
EPDM	Ethylene Propylene diene monomer
gpm	Gallons per Minute
IAPMO	International Association of Plumbing & Mechanical Officials
ISO	International Standards Organization
IAPD	International Association of Plastics Distributors
NEMA	National Electrical Manufacturers Association
NPT	American National Standard Taper Pipe Thread
NSF	National Sanitation Foundation
OSHA	Occupational Safety & Health Administration
PE	Polyethylene
PPI	Plastic Pipe Institute
PPL	Polypropylene
psi	Pounds per Square Inch
psig	Pounds per Square Inch Gauge Pressure
PTFE	Polytetrafluorethylene
PVC	Polyvinyl Chloride
PVDF	Polyvinylidene Fluoride
RMA	Rubber Manufacturers Association
SI	International System (of units)
SPC	Statistical Process Control
SPE	Society of Plastics Engineers
SPI	Society of the Plastics Industry, Inc.
UL	Underwriters Laboratories, Inc.
w•o•g	Water, Oil, Gas

Conversion Chart: Fraction to Decimals with Drill Size and Tap Size

Fraction	Drill Size	Decimal Equiv.	Tap Size
	80	.0135	
	79	.0145	
1/64		.0156	
	78	.0160	
	77	.0180	
	76	.0200	
	75	.0210	
	74	.0225	
	73	.0240	
	72	.0250	
	71	.0260	
	70	.0280	
	69	.0292	
	68	.0310	
1/32		.0312	
	67	.0320	
	66	.0330	
	65	.0350	
	64	.0360	
	63	.0370	
	62	.0380	
	61	.0390	
	60	.0400	
	59	.0410	
	58	.0420	
	57	.0430	
	56	.0465	
3/64		.0469	0-80
	55	.0520	
	54	.0550	
	53	.0595	1-64, 72
1/16		.0625	
	52	.0635	
	51	.0670	
	50	.0700	2-56, 64
	49	.0730	
	48	.0760	
5/64		.0781	
	47	.0785	3-48
	46	.0810	
	45	.0820	3-56
	44	.0860	
	43	.0890	4-40
	42	.0935	4-48
3/32		.0938	
	41	.0960	
	40	.0980	
	39	.0995	
	38	.1015	5-40
	37	.1040	5-44
	36	.1065	6-32
7/64		.1094	
	35	.1100	
	34	.1110	
	33	.1130	6-40
	32	.1160	
	31	.1200	
1/8		.1250	
	30	.1285	
	29	.1360	8-32, 36
	28	.1405	
9/64		.1406	
	27	.1440	
	26	.1470	
	25	.1495	10-24
	24	.1520	
	23	.1540	
5/32		.1562	
	22	.1570	
	21	.1590	10-32
	20	.1610	
	19	.1660	
	18	.1695	
11/64		.1719	
	17	.1730	
	16	.1770	12-24
	15	.1800	
	14	.1820	12-28
	13	.1850	
3/16		.1875	
	12	.1890	
	11	.1910	
	10	.1935	
	9	.1960	
	8	.1990	
	7	.2010	1/4 - 20
13/64		.2031	
	6	.2040	
	5	.2055	
	4	.2090	
	3	.2130	1/4-28
7/32		.2188	
	2	.2210	
	1	.2280	
	A	.2340	
15/64		.2344	
Letter Size Drills	B	.2380	
	C	.2420	
	D	.2460	
1/4	E	.2500	
	F	.2570	5/16-18
	G	.2610	
17/64		.2656	
	H	.2660	
	I	.2720	5/16-24
	J	.2770	
	K	.2810	
9/32		.2812	
	L	.2900	
	M	.2950	
19/64		.2969	
	N	.3020	
5/16		.3125	3/8-16
	O	.3160	
	P	.3230	
21/64		.3281	
	Q	.3320	3/8-24
	R	.3390	
11/32		.3438	
	S	.3480	
	T	.3580	
23/64		.3594	
	U	.3680	7/16 - 14
3/8		.3750	
Letter Size Drills	V	.3770	
	W	.3860	
25/64		.3960	7/16-20
	X	.3970	
	Y	.4040	
13/32		.4062	
	Z	.4130	
27/64		.4219	1/2-13
7/16		.4375	
29/64		.4531	1/2-20
15/32		.4688	
31/64		.4844	9/16-12
1/2		.5000	
33/64		.5156	9/16-18
17/32		.5312	5/8-11
35/64		.5469	
9/16		.5625	
37/64		.5781	5/8-18
19/32		.5938	
39/64		.6094	
5/8		.6250	
41/64		.6406	
21/32		.6562	3/4-10
43/64		.6719	
11/16		.6875	3/4-16
45/64		.7031	
23/32		.7188	
47/64		.7344	
3/4		.7500	
49/64		.7656	7/8-9
25/32		.7812	
51/64		.7969	
13/16		.8125	7/8 - 14
53/64		.8281	
27/32		.8438	
55/64		.8594	
7/8		.8750	1 - 8
57/64		.8906	
29/32		.9062	
59/64		.9219	1 - 12
15/16		.9375	
61/64		.9531	
31/32		.9688	
63/64		.9844	1 1/8 - 7
1		1.0000	
1 3/64		1.0469	1 1/8 - 12
1 7/64		1.1094	1 1/4 - 7
1 1/8		1.1250	
1 11/64		1.1719	1 1/4 - 12
1 7/32		1.2188	1 3/8 - 6
1 1/4		1.2500	
1 15/64		1.2969	1 3/8 - 12
1 11/32		1.3438	1 1/2 - 6
1 3/8		1.3750	
1 27/64		1.4219	1 1/2 - 12
1 1/2		1.5000	

PIPE THREAD SIZE

Thread	Drill	Thread	Drill
1/8 - 27	R	1 1/2 - 11 1/2	1 47/64
1/4 - 18	7/16	2 - 11 1/2	2 7/32
3/8 - 18	37/64	2 1/2 - 8	2 5/8
1/2 - 14	23/32	3 - 8	3 1/4
3/4 - 14	59/64	3 1/2 - 8	3 3/4
1 - 11 1/2	1 5/32	4 - 8	4 1/4
1 1/4 - 11 1/2	1 1/2		

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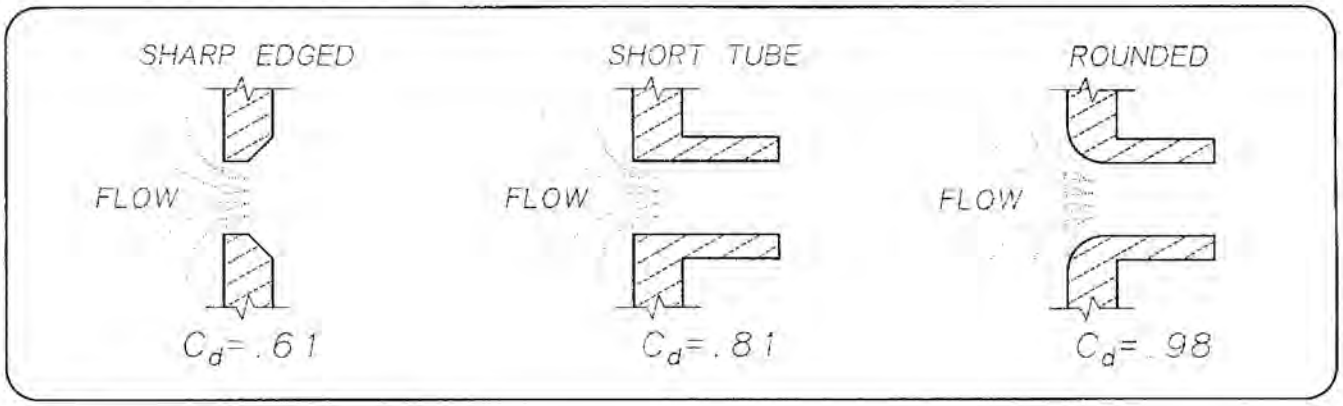
Sheet Metal Thickness (Gauge) Chart in Inches

Based on AWG - American Wire Gauge and B&S - Brown and Sharpe Standards

Gauge	Mild Steel	Aluminum	Galvanized Steel	Stainless Steel
3	0.2391	0.2294	-	0.2500
4	0.2242	0.2043	-	0.2344
5	0.2092	0.1819	-	0.2187
6	0.1943	0.1620	-	0.2031
7	0.1793	0.1443	-	0.1875
8	0.1644	0.1285	0.1680	0.165
9	0.1495	0.1144	0.1532	0.1562
10	0.1345	0.1019	0.1382	0.1406
11	0.1196	0.0907	0.1233	0.1250
12	0.1046	0.0808	0.1084	0.1094
13	0.0897	0.0720	0.0934	0.0937
14	0.0747	0.0641	0.0785	0.0781
15	0.0673	0.0571	0.0710	0.0703
16	0.0598	0.0508	0.0635	0.0625
17	0.0538	0.0453	0.0575	0.0562
18	0.0478	0.0403	0.0516	0.0500
19	0.0418	0.0359	0.0456	0.0437
20	0.0359	0.0320	0.0396	0.0375
21	0.0329	0.0285	0.0366	0.0344
22	0.0299	0.0253	0.0336	0.0312
23	0.0269	0.0226	0.0306	0.0281
24	0.0239	0.0201	0.0276	0.0250
25	0.0209	0.0179	0.0247	0.0219
26	0.0179	0.0159	0.0217	0.0187
27	0.0164	0.0142	0.0202	0.0172
28	0.0149	0.0126	0.0187	0.0156
29	0.0135	0.0113	0.0172	0.0141
30	0.0120	0.0100	0.0157	0.0125
31	0.0105	0.0089	0.0142	0.0109
32	0.0097	0.0080	0.0134	0.0102
33	0.0090	0.0071	-	0.0094
34	0.0082	0.0063	-	0.0086
35	0.0075	0.0056	-	0.0078
36	0.0067	-	-	0.0070

Formulas for Calculating the Time Required to Empty a Vessel

The following formulas are based on turbulent flow of a Newtonian fluid through an outlet (orifice) in a tank. The discharge coefficient C_d depends on the configuration of the outlet. Some typical values for discharge coefficient are shown below.

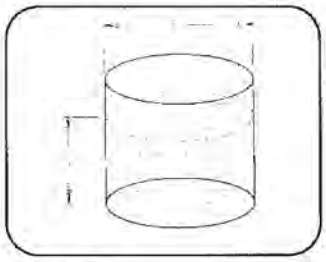


Variables:

h	elevation of fluid (ft.)
D	diameter of tank (ft.)
A	orifice area (ft.²)
G	gravitational acceleration = 32.2 ft./sec.²
Δt	time required to empty tank (sec.)

Vertical Cylindrical Tank

$$\Delta t = \frac{\pi * D^2}{C_d * A} * \sqrt{\frac{h}{8 * G}}$$



Example 1:

A vertical cylindrical tank 12 ft. in diameter is fitted with a 2" Hayward bulkhead fitting (comparable to a short tube outlet). The area of the outlet is:

$$A = \frac{\pi * d_{orf}^2}{4 * 144} = \frac{\pi * 2^2}{4 * 144} = .0218 \text{ ft}^2$$

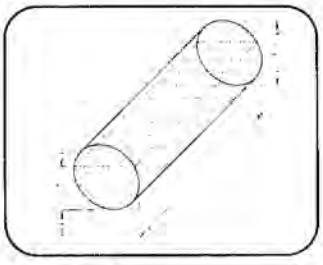
If the tank is filled with water to a height of 20 ft., and if we assume turbulent flow the approximate time to empty the tank is given by:

$$\Delta t = \frac{\pi * 12^2}{.81 * .0218} * \sqrt{\frac{20}{8 * 32.2}} = 7{,}139 \text{ sec}$$

The tank should be empty in about 2 hours.

Horizontal Cylindrical Tank

$$\Delta t = \frac{L * [D^{3/2} - (D-h)^{3/2}]}{3 * C_d * A} * \sqrt{\frac{8}{G}}$$



Example 2:

A 7 ft. diameter by 9 ft. long horizontal cylindrical tank has a 4" diameter sharp edged orifice outlet. The area of the outlet is:

$$A = \frac{\pi * d_{orf}^2}{4 * 144} = \frac{\pi * 4^2}{4 * 144} = .0873 \text{ ft}^2$$

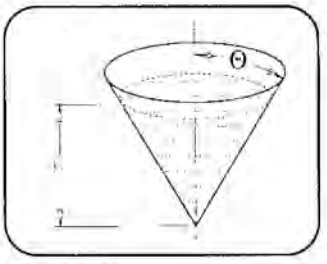
If the tank is filled with water to a height of 5 ft., and if we assume turbulent flow the approximate time to empty the tank is given by:

$$\Delta t = \frac{9 * [7^{3/2} - (7-5)^{3/2}]}{3 * .61 * .0873} * \sqrt{\frac{8}{32.2}} = 440 \text{ sec}$$

The tank should empty in about 7 minutes.

Conical Tank

$$\Delta t = \frac{\pi h^{5/2} * \tan^2\Theta}{5 * C_d * A} * \sqrt{\frac{2}{G}}$$



Example 3:

A conical tank with a taper angle of 25° is fitted with a 2" diameter short tube type outlet. The area of the outlet is:

$$A = \frac{\pi * d_{orf}^2}{4 * 144} = \frac{\pi * 2^2}{4 * 144} = .0218 \text{ ft}^2$$

If the tank is filled with water to a height of 28 ft., and if we assume turbulent flow the approximate time to empty the tank is given by:

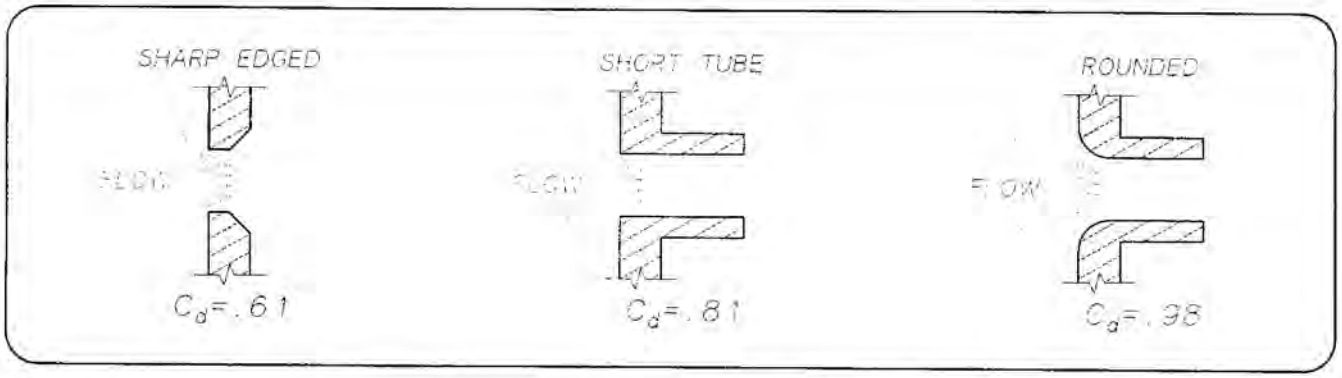
$$\Delta t = \frac{\pi * 28^{5/2} * \tan^2 25° * \sqrt{2}}{5 * .81 * .0128 * \sqrt{32.2}} = 8{,}000 \text{ sec}$$

The tank should empty in about 2 1/4 hours.

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Formulas for Calculating Flow Rate from a Vessel

The following formulas are for calculating the rate at which a fluid will flow from a tank when the fluid level is maintained constant (h is constant). The discharge coefficient C_d depends on the configuration of the outlet. Some typical values for discharge coefficient are shown below.

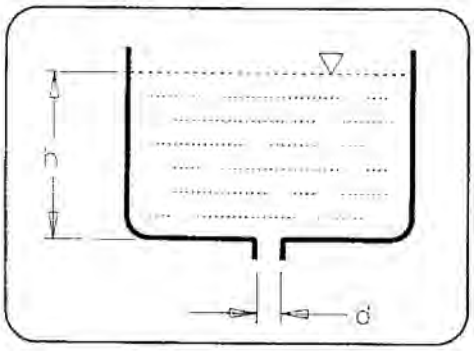


Variables:

h	fluid elevation above outlet (in.)
d	diameter of orifice (in.)
a	orifice area (in.²)
g	gravitational acceleration = 386 in./sec.²
q	volume flow rate of fluid through opening (in.³/sec.)
C_d	discharge coefficient

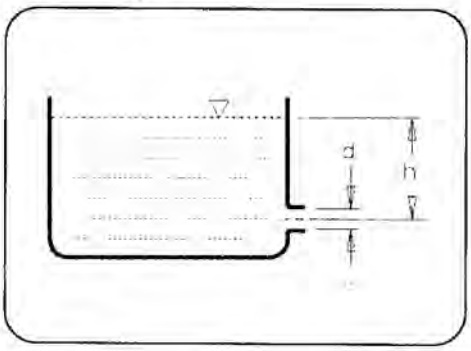
Bottom Opening

$$q = C_d * a \sqrt{2 * g * h}$$



Side Opening

$$q = C_d * a * \sqrt{2 * g * h}$$



Example 1:

An open tank is continuously fed with water such that the height from the water surface to the outlet is maintained at 60". The outlet has a 1" diameter bulkhead fitting (comparable to a short tube outlet). The outlet area is calculated by:

$$a = \frac{\pi * d^2}{4} = \frac{\pi * 1^2}{4} = .7854 \text{ in}^2$$

The flow of water through the outlet is given by:

$$q = .81 * .7854 * \sqrt{2 * 386 * 60} = 137 \text{ in}^3/\text{sec}$$

This flow rate is equivalent to about 36 gpm.

9

ASAHI Socket Fusion Installation Practices & Welding Methods

WELDING METHODS

Socket Fusion

In socket welding, the pipe end and socket fittings are heated to welding temperature by means of a socket and spigot heater inserts. Socket welding may be manually performed on pipe diameters up to 2.0" (63 mm). Sizes above that require a Bench Socket Tool due to the required joining forces. In sizes greater than 1", a bench style machine may be preferred for ease of operation.

Welding Process

Hand-Held Socket Fusion

Once the heating element is warmed to the proper temperature, welding proceeds as follows:

1. Follow the welding parameters provided with Asahi/America's socket welding equipment (see Tables F-2, F-3, and F-5 for sample welding data).

2. a. Cut the pipe faces at right angles and remove burrs using a deburring tool.
   b. Clean the pipe and fittings with lint free paper and cleansing agents (isopropyl alcohol or similar).
   c. Mark the socket depth with a scraper knife or marker on the pipe to ensure proper insertion depth of the pipe during welding.
   d. Thoroughly clean heater inserts before each weld.

3. Quickly push pipe and fittings in an axial direction into heater inserts until the pipe bottoms (or meets the marking). Avoid twisting while heating. Hold in place for the heat soak time (column A).

4. After the heat soak time, remove the fitting and pipe from the heating element and immediately push them together within the change over time (column B) without twisting them until both welding beads meet. The change over time is the maximum period of time between the removal from the heating element and final settings of the components.

5. Components shall be held together and allowed to cool per the specified cool down time prior to stressing the joint.

Visual Inspection

During the final joining step, it is important that the bead formed on the pipe meets the bead on the fitting. If the beads do not meet, a small gap will be present. Welds that have a gap between the fusion beads should be cut and rewelded (see Figure F-2). The bead on the pipe should be uniform around 360° of the pipe. Beads that vary in size or disappear altogether are a sign of improper heating and/or joining.

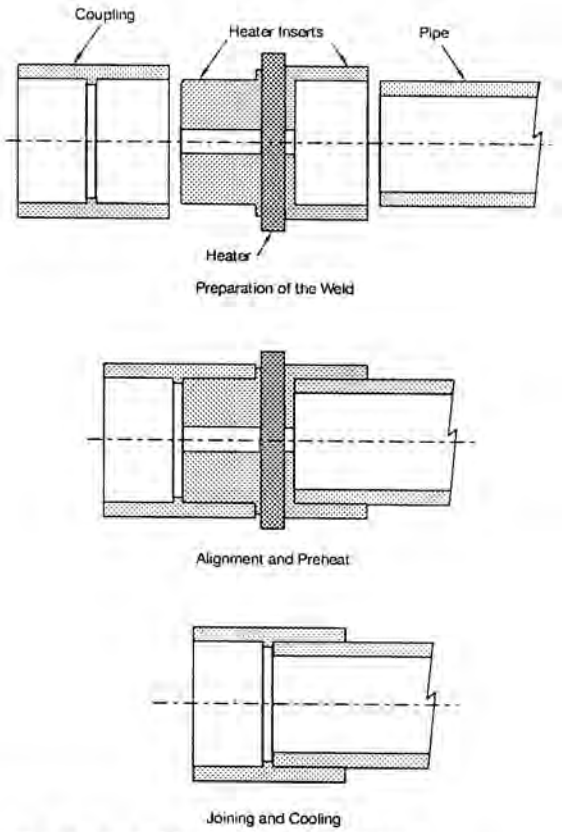


Figure F-2. Socket fusion welding process

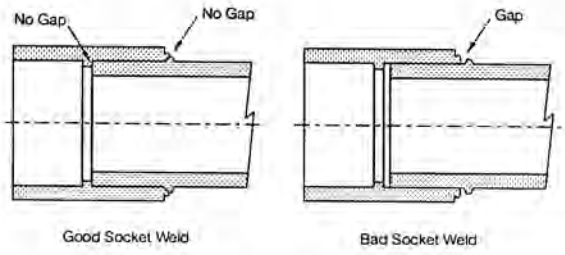


Figure F-3. Socket fusion welding samples

Table F-2. Sample Welding Data (time-sec)

Pipe Size (inches)	A	B	C
	Heat Soak Time	Change Over Time	Cooling Time
1" Pro 150	8	6	240

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Rev. EDG-02/A

Note: For more detailed installation practices contact ALSCO sales office.

Asahi Socket Welding Parameters

Nominal Pipe Size (inches)	Heat Soak Time (sec)	Adjusting Time (sec)	Cooling Time (min)
Pro 150			
1/2	5	4	2
3/4	7	4	2
1	8	6	4
1 1/4	12	6	4
1 1/2	18	6	4
2	24	8	6
2 1/2	30	8	6
3	40	8	6
4	50	10	8

Nominal Pipe Size (inches)	Heat Soak Time (sec)	Adjusting Time (sec)	Cooling Time (min)
Air Pro			
1/2	5	4	2
3/4	7	4	2
1	8	6	4
1 1/4	12	6	4
1 1/2	19	6	4
2	24	8	6
2 1/2	30	8	6
3	40	8	6
4	50	10	8

Nominal Pipe Size (inches)	Heat Soak Time (sec)	Adjusting Time (sec)	Cooling Time (min)
Super Pro (Purad)			
1/2	3	3	3
3/4	4	3	3
1	5	3	3
1 1/4	6	4	4
1 1/2	8	4	5
2	10	5	6
2 1/2	12	5	6
3	15	6	8
4	20	6	10

Welding Temperatures:

Pro 150	260°C = 500°F
Super Pro	260°C = 500°F
Air Pro	260°C = 500°F

Note: Must use Super Proline 230 PSI pipe in 3” and 4”

ASAHI Butt Fusion Installation Practices & Welding Methods

Butt Fusion (for single wall piping systems)

The butt fusion of PP, HDPE, PVDF, and E-CTFE is accomplished with Asahi/America's recommended butt-fusion welding equipment. Asahi/America provides welding equipment to handle all diameter sizes offered, and has an extensive line of equipment available to buy or rent for every application.

The principle of butt fusion is to heat two surfaces at the melt temperature, then make contact between the two surfaces and allow the two surfaces to fuse together by application of force. The force causes flow of the melted materials to join. Upon cooling, the two parts are united. Nothing is added or changed chemically between the two components being joined. Butt fusion does not require solvents or glue to join material.

Butt fusion is recognized as the industry standard, providing high integrity and reliability. It does not require couplings or added material. The procedure, recommended by Asahi/America, conforms to ASTM D-2857 for *Joining Practices of Polyolefin Materials*, and the recommended practices of the ASME B 31.3 Code (*Chemical Plant and Petroleum Refinery Piping*).

Welding Process

Once the pipes or fittings have been secured in the proper welding equipment, aligned and planed with the facing tool (planer), and the heating element warmed to the proper temperature, welding proceeds as follows:

1. Follow the welding parameters (temperature, time, and force) provided with Asahi/America's butt-fusion equipment (see sample welding data in Table F-3).
2. Insert heating element between secured pipes or fittings, making sure full contact is made around surfaces.
3. Apply full welding pressure, as shown in (Column A), until a maximum 1/64" ridge of melted material is present around the outside circumference of both pipes or fittings. This indicates proper melt flow has been accomplished and further guarantees two parallel surfaces.
4. Reduce the pressure to the recommended melt pressure (Column B) and begin timing for recommended heat soak time (Column C).
5. At the end of the heat soak time, in a quick smooth motion, separate the pipe fitting from the heating element, then apply weld pressure (Column E). It is important to gradually increase pressure to achieve welding pressure. The weld must be performed within the allowable change over time (Column D). Change over time is the maximum period of time when either the pipes or fittings can be separated from the heating element, yet still retain sufficient heat for fusion. Bring the melted end together to its welding pressure.
6. The heat soak time may need to be increased in cold or windy environments. Several practice welds should be conducted at the installation site to ensure welding can be performed as a test of conditions. Consult Asahi/America for any modification of weld parameters.
7. A visual inspection must be performed as well. After joining, a bead surrounding the whole circumference will have been created. A good weld will have two symmetrical beads on both the pipe or fittings almost equally sized and having a smooth surface.
8. Allow components to cool to the touch or until a fingernail cannot penetrate the bead. This is recommended in ASTM D-2857, Section 9. The pipes or fittings may be removed from the welding equipment at the completion of the specified cooling time.
9. Do not put components under stress or conduct a pressure test until complete cooling time (Column F) has been achieved.

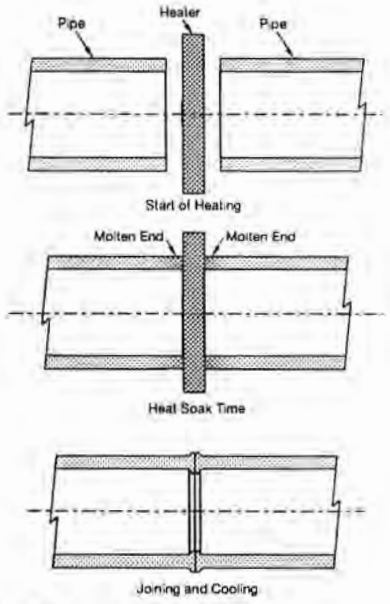


Figure F-4. Butt-fusion welding process

Table F-3. Sample Welding Data (time-sec, pressure-psi)

Pipe Size (inches)	A	B	C
	Initial Melt Pressure	Melt Pressure	Heat Soak Time
2" Pro 150	23	2	60

Pipe Size (inches)	D	E	F
	Change Over Time	Welding Pressure	Cooling Time
2" Pro 150	5	23	420

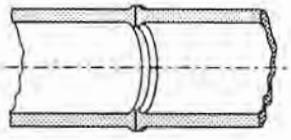


Figure F-5. Butt-fusion welding example

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Note: For more detailed installation practices contact ALSCO sales office.

Asahi Proweld Shop 4, 6, 10 Duo Pro Welding Parameters

Nominal Pipe Size (inches)	Initial Melt Pressure lbs	Melt Pressure lbs	Heat Soak Time (sec)	Change Over Time (sec)	Welding Pressure lbs	Cooling Time (min)
Pro 150x45						
2x4	49	5	60	4	49	7
3x6	100	6	80	4	100	9
4x8	151	8	100	5	151	13
6x10	280	10	130	6	280	16
Pro 150x150						
1x3	52	4	80	3	52	10
2x4	92	6	100	4	92	13
3x6	194	9	130	4	194	16
4x8	299	11	180	5	299	23
6x10	507	11	230	6	507	29
Pro 45x45						
4x8	108	6	60	5	108	9
6x10	186	14	80	5	186	10
PVDF x PVDF						
1x3	29	4	40	4	29	7
2x4	50	6	50	4	50	10
3x6	92	8	70	4	92	12
4x8	142	14	90	4	142	14
6x10	242	20	120	4	242	20

Welding Temperatures:

HDPE	420°F - 446°F
PP	393°F - 410°F
PVDF	436°F - 456°F

Welding Parameters / Single Wall Pipe

Asahi Proweld Field 6”

Nominal Pipe Size (in.)	Initial Melt Pressure PSI / BAR	Melt Pressure PSI / BAR	Heat Soak Time (sec)	Change Over Time (sec)	Welding Pressure PSI / BAR	Cooling Time (min)
Pro 150						
1 1/4	16.4 / 1.2	1.8 / 0.1	40	4	16.4 / 1.2	5
1 1/2	25.5 / 1.8	1.8 / 0.1	45	4	25.5 / 1.8	6
2	41.8 / 2.9	3.6 / 0.3	60	5	41.8 / 2.9	7
2 1/2	60.0 / 4.2	3.6 / 0.3	70	7	60.0 / 4.2	9
3	83.6 / 5.9	5.5 / 0.4	80	8	83.6 / 5.9	10
4	125.5 / 8.8	5.5 / 0.4	100	9	125.5 / 8.8	13
6	269.1 / 18.9	18.2 / 1.3	130	10	269.1 / 18.9	16
Pro 45						
4	47.3 / 3.3	1.8 / 0.1	35	5	47.3 / 3.3	5
6	98.2 / 6.9	7.3 / 0.5	45	5	98.2 / 6.9	5
PVDF						
1 1/4	14.5 / 1.0	1.8 / 0.1	35	4	14.5 / 1.0	4
1 1/2	21.8 / 1.5	3.6 / 0.3	40	4	21.8 / 1.5	5
2	29.1 / 2.0	3.6 / 0.3	45	4	29.1 / 2.0	5
2 1/2	29.1 / 2.0	5.5 / 0.4	50	4	29.1 / 2.0	5
3	40.0 / 2.8	5.5 / 0.4	40	4	40.0 / 2.8	6
4	61.8 / 4.3	7.3 / 0.5	50	4	61.8 / 4.3	7
6	127.3 / 8.9	9.1 / 0.6	70	4	127.3 / 8.9	10

Asahi Proweld Field 10”,12” and Proweld Shop 12

Nominal Pipe Size (in.)	Initial Melt Pressure PSI / BAR	Melt Pressure PSI / BAR	Heat Soak Time (sec)	Change Over Time (sec)	Welding Pressure PSI / BAR	Cooling Time (min)
Pro 150						
3	47.4 / 3.3	3.0 / 0.2	50	8	47.4 / 3.3	10
4	50 / 3.5	3.0 / 0.2	60	9	50 / 3.5	13
6	78 / 5.5	10.3 / 0.7	90	10	78 / 8.5	16
8	128 / 9	15.4 / 1.1	150	10	128 / 9	23
10	185 / 13	30.9 / 2.2	200	10	185 / 13	29
12	299 / 21	41.2 / 2.9	260	12	299 / 21	37
Pro 45						
4	43 / 3	1.0 / 0.1	35	5	43 / 3	5
6	57 / 4	4.1 / 0.3	45	5	57 / 4	5
8	71 / 5	5.2 / 0.4	60	8	71 / 5	8
10	99 / 7	10.3 / 0.7	80	8	99 / 7	10
12	128 / 9	15.4 / 1.1	100	8	128 / 9	12
PVDF						
3	22.7 / 1.6	3.1 / 0.2	40	4	22.7 / 1.6	6
4	35.1 / 2.5	4.0 / 0.3	50	4	35.1 / 2.5	7
6	72.2 / 5.1	5.2 / 0.4	70	4	72.2 / 5.1	10
8	111.3 / 7.8	10.3 / 0.7	90	6	111.3 / 7.8	12

Welding Temperatures

Material	Fahrenheit °F	Celsius °C
HDPE	420 - 446	215 - 230
PP	393 - 410	200 - 210
PVDF	446 - 10	230 - 5
Halar	536	280

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ASAHI IR Fusion Installation Practices & Welding Methods

IR Fusion

Improving upon conventional butt fusion, IR welding uses a non-contact method. IR welding uses the critical welding parameters of heat soak time, change over time, and joining force as found with butt fusion. However, by avoiding direct contact with the heating element, IR fusion produces a cleaner weld with more repeatable and smaller bead sizes. The end result is a superior weld for high-purity applications.

The graph in Figure F-21 outlines the forces applied during the non-contact joining process. Notice that the ramp up force to full joining pressure is a smooth curve where force is gradually ascending over time. Even force build-up is critical to join material without creating a cold joint.

Welding Process

Material is prepared for IR fusion by preparing smooth arid level surfaces among the ends to be joined. Butting the material against an internal planer acts as a centering and leveling device. The planer is then used to cut a clean and smooth surface. The material should then be checked for vertical and horizontal alignment. Welding machines should allow for minor adjustments to the vertical and horizontal orientation of the material.

Once alignment has been verified, the material is heated by close proximity to the heating source. Through radiant heat and proper heat soak time, the material becomes molten to allow physical bonding between the two pieces.

After the heating source has been removed, the material should be joined together in a steady manner, slowly ramping up the force until the desired joining force has been achieved.

Ramping up and monitoring the force is critical for repeatable and successful IR welding. This ensures the molten material has joined at the right force and prevents against cold welds, which are caused by the molten material being overly pushed to the inside and outside of the weld zone.

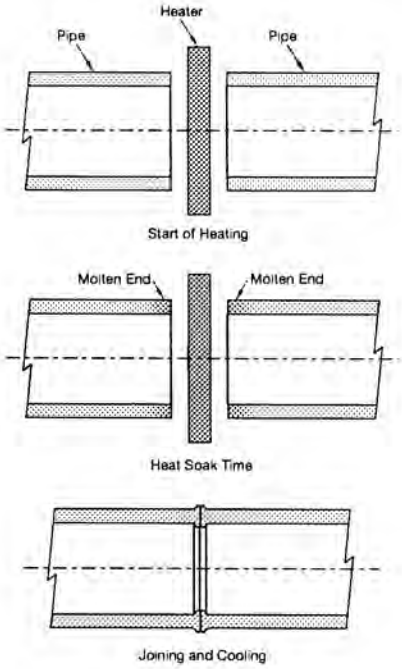


Figure F-20. IR fusion welding process

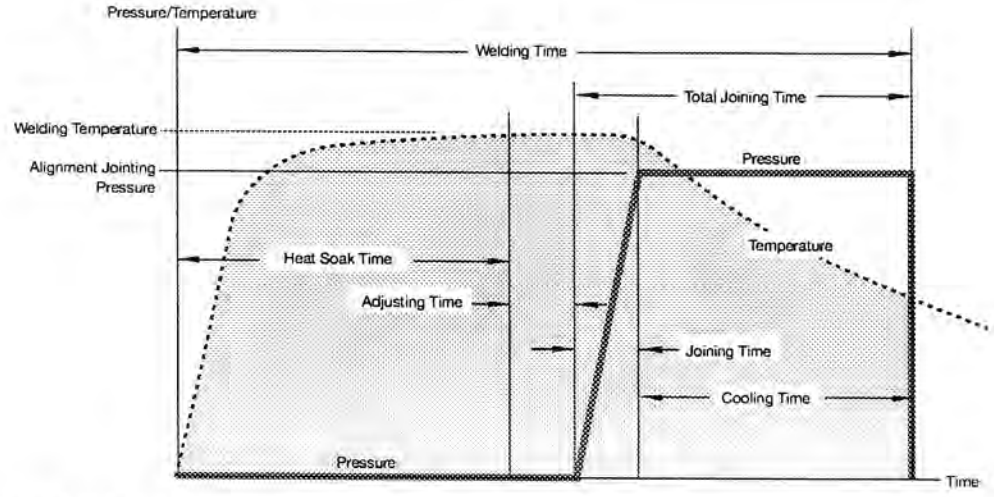


Figure F-21. IR fusion timing diagram

ASAHI/AMERICA
Rev. EDG-02/A

Note: For more detailed installation practices contact ALSCO sales office.

ASAHI HPF Fusion Installation Practices & Welding Methods

HPF Fusion

The HPF welding technology is an electric socket fusion system that joins Purad PVDF piping components, providing a smooth internal surface.

Welding Process

Pipes and/or fittings are to be planed except standard 90s, which are planed at the factory. The HPF coupling is placed in the wide mounting clamp. Using the mechanical stop on the clamp, the pipe is centered in the coupling. The pipe or fitting ends should be tight against each other without a gap.

Once the components are fixed in the clamp, the leads are connected and the proper welding times and voltage are scanned through a bar code reader. The entire welding process from this point is automatic and controlled by the HPF unit.

HPF provides a weld without any internal obstruction or any outside contamination. Since the coupling is the heating element and is closed to the external environment, contamination is avoided during the fusion process.

HPF uses most butt-fusion fittings. Extended leg fittings are not required.

HPF welding is capable of being conducted with or without an internal balloon. With the balloon, the joint is completely smooth without any bead or seam. Without the balloon, the joint is still beadless. The advantage of HPF is that all joints within its size range can be conducted without the need of a union, flange, or alternative welding method. Use the HPF Operation Manual for further details on weld procedures.

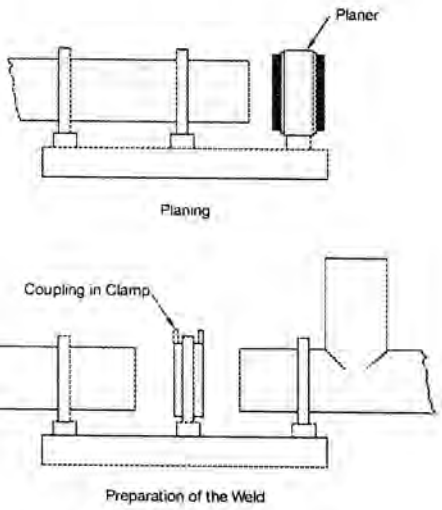


Figure F-22. HPF fusion welding preparation

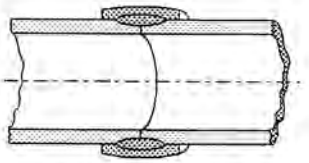


Figure F-23. HPF fusion heating process without balloon

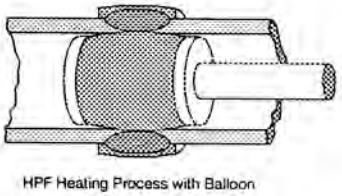


Figure F-24. HPF fusion heating process with balloon

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Note: For more detailed installation practices contact ALSCO sales office.

ALSCO™ Socket Fusion Installation Instructions

Chemtrol® Thermo-Sealing (Socket Fusion) Instructions for Black & Natural Polypropylene and Red & Natural PVDF (Kynar) Pressure Piping Systems

Scope

The socket fusion joining method which is detailed herein applied to all Chemtrol polypropylene and PVDF pressure piping systems including molded socket fittings, and socket type valve connections. This procedure involves the application of regulated heat uniformly and simultaneously to pipe and fitting mating surfaces so that controlled melting occurs at these surfaces.

All recommendations and instructions presented herein for socket fusion are based upon the use of a Thermo-Seal fusion tool for applying uniform heat to pipe and fittings.

Joining Equipment and Materials

- **Cutting tools**
- **Deburring tool**
- **Cotton rags**
- **Vise**
- **Thermo-Seal tool**

Electric Model DD-1 with 1/2" - 2" tool pieces
115V 6.7 amps 800 watts

Electric Model DD-2 with 1/2" - 6" tool pieces
115V 1.38 amps 1650 watts

CAUTION: Socket Fusion and Fillet Welding involve temperatures in excess of 540°F. Severe burns can result from contacting equipment or molten plastic material at or near these temperatures.

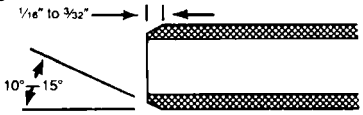
Preparation and Joining

1. Cutting

The smaller sizes of plastic pipe (1/2" - 4") can easily be cut with a pipe or tubing cutter (Reed Part # 04140), which has a cutting wheel that is specifically designed for plastic.

2. Deburring and Beveling

All burrs, chips, fillings, etc., should be removed from both the pipe I.D. and O.D. before joining. Use a deburring tool or a knife. Best done with a Reed Beveling tool (Part # 04395).



3. Cleaning

Using a clean, dry cotton rag, wipe away all loose dirt and moisture from the I.D. and O.D. of the pipe end and the I.D. of the fitting. **DO NOT ATTEMPT TO SOCKET FUSE WET SURFACES.**

4. Joint Sizing

In order to provide excess material for fusion bonding, polypropylene and PVDF components are manufactured to socket dimensions in which the socket I.D. is smaller than the pipe O.D. Therefore, it should not be possible to easily slip the pipe into the fitting socket past the initial socket entrance depth, and in no case should it ever be possible to bottom the pipe in the socket prior to fusion.

Before making socket fusion joints, fittings should be checked for proper socket dimensional tolerances, based on the above discussion, by attempting to insert the pipe into the fitting socket. If a fitting socket appears to be oversized, it should not be used.

5. Planning Construction

Socket fusion joints are more easily made when there is sufficient space to properly secure the Thermo-Seal tool and to maneuver pipe and fittings into the Thermo-Seal tool. Therefore, it is recommended that the piping system be pre-fabricated, as much as possible, in an area where there is sufficient room to work, and that as few joints as possible should be made in areas where there is limited working space. Mechanical joints such as flanges or unions may be considered in extremely tight areas.

6. Thermo-Seal Tool Set Up

WARNING: DISCONNECT ELECTRICAL POWER BEFORE ADJUSTING HEATER TEMPERATURE. IF NOT, THE THERMOSWITCH COULD BE SHORTED OUT, RESULTING IN SEVERE ELECTRICAL SHOCK.

a. Install the male and female tool pieces on either side of the Thermo-Seal tool and secure with set screws.

b. Insert the electrical plug into a ground 100 VAC electrical source, and allow the tool to come to the proper operating temperature. The tool temperature is read directly from the mounted temperature gauge, and tool temperature can be adjusted by turning the thermostat adjustment screw with a screwdriver. (Counterclockwise to raise the temperature, and clockwise to lower the temperature.)

NOTE: One turn of the adjustment screw will give approximately a 25°F temperature change.

IMPORTANT: Good socket fusion joints can be made only when the Thermo-Seal tool is operating at the proper temperature, and only when the length of time that the pipe and fittings remain on the heated tool pieces does not exceed those times recommended for the particular size of pipe and fitting to be joined as listed in the next column. (Note: Heating times should begin after pipe and fitting have been completely placed in position on the heat tool.)

Recommended Heating Time

Pipe Size In.	Polypropylene Heating Time at 540°F	PVDF Heating Time at 565°F
1/2	10-15 Sec.	20-25 Sec.
3/4	13-18 Sec.	20-25 Sec.
1	14-20 Sec.	25-30 Sec.
1 1/2	15-20 Sec.	30-45 Sec.
2	20-25 Sec.	30-45 Sec.
3	25-30 Sec.	30-45 Sec.
4	25-35 Sec.	45-60 Sec.
6	35-50 Sec.	60-75 Sec.

Low temperatures and insufficient heating times will result in a lack of or incomplete melting making it impossible to make a good socket fusion joint

Making Socket Fusion Joints

1. Place the proper size depth gauge over the end of the pipe.

2. Attach the end of the depth gauge clamp to the pipe by butting the clamp up to the end of the depth gauge and locking it into place. Then remove the depth gauge.

3. Simultaneously place pipe and fitting squarely and fully on heat tool pieces so that the I.D. of the fitting and the O.D. of the pipe are in contact with the heating surfaces. Care should be taken to insure that the pipe fitting are not cocked when they are inserted on the tool pieces.

4. Hold the pipe and fitting on the tool pieces for the prescribed amount of time. During this time a bead of melted material will appear around the complete circumference of the pipe at the entrance of the tool piece.

5. Simultaneously remove the pipe and fitting from the tool pieces and immediately insert the pipe, squarely and fully and without purposeful rotation, into the socket of the fitting. Hold the complete joint in place and avoid relative movement between components for at least 15 seconds.
Once a joint has been completed the clamp can be removed and preparation for the next joint can be started.

6. The surfaces of the female and male tool pieces are PTFE coated to prevent sticking of the hot plastic.
It is important that the tool pieces be kept as clean as possible. Any residue left on the tool pieces should be removed immediately by wiping with a cotton cloth.
CAUTION: HOT PLASTIC MATERIAL CAN CAUSE SEVERE BURNS: AVOID CONTACT WITH IT.

Procedures for making good socket fusion joints can be summarized into five basic principles as follows:

1. **The tool must be operated at the proper temperature.**
2. **The pipe end must be beveled.**
3. **The fitting must be slipped squarely onto the male tool while the pipe is simultaneously inserted into the female tool.**
4. **The fitting and pipe must not remain on the heat tool for an excessive period of time. Recommended heating times must be followed.**
5. **The pipe must be inserted squarely into the fitting socket immediately after removal from the heated tools.**
6. **The Thermo-Seal tool must be kept clean at all times.**

Pressure Testing

The strength of a socket fusion joint develops as the material in the bonded area cools. One hour after the final joint is made, a socket fusion piping system can be pressure tested up to 100% of its hydrostatic pressure rating.

NOTE: ONLY TRAINED PERSONNEL MAY CARRY OUT FUSION JOINING!

ALSCO™ Solvent Cementing Instruction

SOLVENT CEMENT JOINING OF PLASTIC PIPE
WHAT EVERY USER SHOULD KNOW

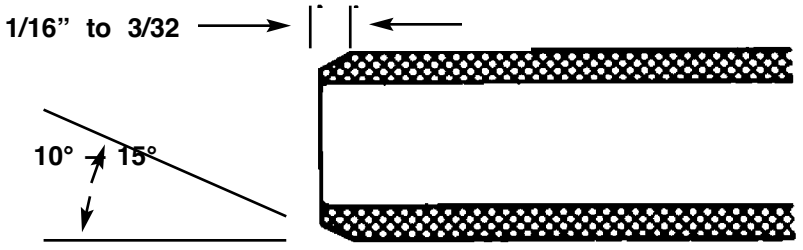
1) **WHAT IS SOLVENT CEMENT?** It is a complex mixture of solvents and dispersed resins with various additives (depending upon the particular solvent cement application.
2) **HOW DOES A SOLVENT CEMENT WORK?** The solvents penetrate the plastic surface and cause the plastic to swell. The swelling continues until the gaps between the pipe and fitting walls are closed and pressing against each other.
3) **WHAT PLASTICS CAN BE SOLVENT CEMENTED?** PVC (Polyvinyl chloride), CPVC (chlorinated polyvinyl), ABS (Acetylonitrile -Butadiene-Styrene), polycarbonate[PC or Lexan] styrene, Geloy and other plastic materials.
4) **WHAT PLASTICS CANNOT BE SOLVENT CEMENTED?** Polyethylene, polypropylene, polybutylene, nylon and other engineering plastics (usually polyolefins).
5) **WHAT ABOUT USING SOLVENT CEMENT WHEN A JOINT IS WET?** All solvent cements have the ability to absorb some water and still perform well enough to effect an adequate joint. However, our research shows that the presence of 10% water in solvent cement can slow the penetration and swelling rate by up 65%. This joint with water inside will always be an inferior joint and subject to problems.
6) **WHAT IS THE DIFFERENCE BETWEEN PIPE CLEANER AND PIPE PRIMER?** A pipe cleaner is a mixture of solvents used to clean any dirt or foreign materials on the surface of the pipe which could prevent the penetration of the cement into the pipe surface. The cleaner must be wiped off with a clean rag immediately. A primer is a mixture of solvents used to penetrate the pipe and fitting and start the swelling process ahead of the application of the solvent cement. It is not wiped off. The solvent cement is applied on top of the primer immediately while wet.
7) **WHAT IS THE DIFFERENCE BETWEEN SET AND CURE TIMES?** Set time is that initial period of swelling required to give the joint enough mechanical strength to be gently handled. Cure time is the total time period of required swelling for the joint to acquire enough strength that it can perform its job transporting materials through it (at whatever pressure and temperature required) without coming apart or leaking.
8) **WHAT MAKES A GOOD SOLVENT CEMENT JOINT?**
   - A) User selects proper cement & follows proper procedure
   - B) Cut pipe square
   - C) Deburr pipe inside and outside
   - D) Check the dry fit
   - E) Use pipe cleaner when necessary
   - F) Use pipe primer on every joint
   - G) Apply cement properly
   - H) Insert pipe into the fitting properly
   - I) Wait the proper set and cure times

5 - Step Solvent Cementing Instructions

GENERAL INSTRUCTIONS

1. Condition pipe and fittings to the same temperature conditions. Cut ends of pipe square, using fine-toothed hand saw and miter box or power saw. Tube cutters with wheels designed for use with PVC are acceptable, provided they do not leave a raised bead on the outside diameter of the pipe.

2. Using a chamfering tool or file, put a 10° to 15° chamfer (bevel) on the end of the pipe.



3. Check dry fit of the pipe and fittings. Pipe should enter the fitting about 1/3 to 3/4 depth. Position pipe and fitting to assure alignment. Using a clean rag, wipe the pipe surface and fitting socket to remove all dirt, moisture, and grease. If wiping fails to clean the surfaces, a chemical cleaner must be used.

4. Using a clean, natural bristle brush about 1/2 the size of the pipe diameter, freely apply the primer to the fitting socket with a scrubbing motion until the surface is penetrated. Repeated applications may be necessary. Now apply the primer to the pipe surface equal to the depth of the fitting socket in the same manner, making sure the surface is well penetrated. Again apply primer to the fitting socket, to make sure it is still damp.

5. Using a clean natural bristle brush 1/2 the size of the pipe diameter (not a dauber brush), flow on a heavy coat of solvent cement to the male end of the pipe. Load the brush and do not trim. The amount should be more than sufficient to fill any gap. Next apply a liberal coat of solvent cement to the inside of the socket, using straight outward strokes to keep excess cement out of the socket. While BOTH SURFACES are STILL WET with solvent cement, insert the pipe into the socket with a 1/4 turn twisting motion. The pipe MUST go to the BOTTOM of the socket. The application of solvent cement to pipe and fitting, and the insertion of the pipe into the fitting, should be completed in LESS THAN 1 MINUTE. If necessary, use two men to simultaneously apply the solvent cement to pipe and fitting. Hold the joint together for approximately 30 seconds until both surfaces are firmly gripped. Allow proper set time before disturbing joints. After assembly, a properly-made joint will usually show a bead of cement around its entire perimeter. This should be brushed off. Allow the joint to cure for an adequate time before pressure testing.

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ALSCO™ Solvent Cementing Technical Data

Storage of Solvent Cements and Primers

Solvent cements have a definite shelf life and each can and carton is clearly marked with a date of manufacture. Stock should be rotated to ensure that the oldest material is used first. Primer does not have a shelf life but it is good practice to rotate this stock also. Solvent cements and primers should be stored in a relatively cool shelter away from direct sun exposure.

CAUTION: Solvent cements and primers are composed of various solvents and as such require special conditions for storage. Because of their flammability they must not be stored in an area where they might be expose to ignition, heat, sparks or open flames.

Handling of Solvent Cements and Primers

Keep containers for solvent cements tightly closed except when in use. Avoid prolonged breathing of solvent vapors, and when pipe and fittings are being joined in partially enclosed areas use a ventilating device to attenuate vapor levels. Keep solvent cements, primers and cleaners away from all sources of ignition, heat, sparks and open flames. Avoid repeated contact with the skin by wearing proper gloves impervious to the solvents. Application of the solvents or cements with rags and bare hands is not recommended; natural fiber brushes and other suitable applicators can produce satisfactory results.

DANGER: Extremely flammable. Vapor harmful. May be harmful if swallowed. May cause skin or eye irritation.

Initial Set Times for Heavy Weight PVC & CPVC Solvent Cements

Temperature Range	Pipe Sizes 1/2" to 1 1/4"	Pipe Sizes 1 1/2" to 3"	Pipe Sizes 4" to 8"	Pipe Sizes 10" to 20"	Pipe Sizes 18" to 24"
60° - 100°F	15 Min.	30 Min.	1 Hr.	2 Hr.	3 Hr.
40° - 60°F	1 Hr.	2 Hr.	4 Hr.	8 Hr.	12 Hr.
0° - 40°F	3 Hr.	6 Hr.	12 Hr.	24 Hr.	36 Hr.

Joint Cure Schedule for Heavy Weight PVC & CPVC Solvent Cements

Relative Humidity 60 % or Less	Cure Time Pipe Sizes 1/2" to 1 1/4"		Cure Time Pipe Sizes 1 1/2" to 3"		Cure Time Pipe Sizes 4" to 8"		Cure Time Pipe Sizes 10" to 16"	Cure Time Pipe Sizes 18" to 24"
Temperature Range During Assembly and Cure Periods	Up to 180 psi	Above 180 to 370 psi	Up to 180 psi	Above 180 to 315 psi	Up to 180 psi	Above 180 to 315 psi	Up to 100 psi	Up to 100 psi
60° - 100°F	1 Hr.	6 Hr.	2 Hr.	6 Hr.	6 Hr.	24 Hr.	24 Hr.	36 Hr.
40° - 60°F	2 Hr.	12 Hr.	4 Hr.	24 Hr.	12 Hr.	48 Hr.	40 Hr.	72 Hr.
0° - 40°F	8 Hr.	48 Hr.	16 Hr.	96 Hr.	48 Hr.	8 Days	8 Days	10 to 12 Days

TEMPERATURE CORRECTION FACTORS

Operating Temperature (F°)	73.4	80	90	100	110	115	120	125	130	140	150	160	170	180	200
PVC 1120	1.00	.88	.75	.62	.50	.45	.40	.35	.30	.22	Not Recommended				
CPVC 4120	1.00	1.00	.91	.82	.77	.74	.65	.66	.62	.50	.47	.40	.32	.25	N/R

Estimated Quantities of PVC / CPVC Cement *

Size In.	# of PINTS Joints	Coup. & 90's	Tees	# of QUARTS Joints	Coup. & 90's	Tees
1/2	190	95	64	380	190	127
3/4	120	60	40	240	120	80
1	100	50	33	200	100	66
1 1/4	70	35	24	140	70	48
1 1/2	50	25	17	100	50	33
2	30	15	10	60	30	20
2 1/2	25	12	8	50	24	16
3	20	10	6	40	20	12
4	12	6	4	24	12	8
5	9	4.5	3	18	9	6
6	5	2.5	1.7	10	5	3.3
8	-	-	-	5	2.12	1.6
10	-	-	-	.75	-	-
12	-	-	-	1.0	-	-
14	-	-	-	1.25	-	-
16	-	-	-	1.50	-	-
18	-	-	-	2.00	-	-

Hot Weather Cementing

Since cement contains a solvent, certain precautions or steps should be taken when the atmospheric temp. is above 90°F to avoid excessive evaporation of the solvent from the cement just prior to joining. Such evaporation will cause the cement to prematurely set before joining, thus adversely affecting the joint integrity. Use one or a combination of the below to reduce the chances of this condition occurring.

1. Shade or shelter the joint surfaces from direct exposure to the sun's rays for at least one hour prior to joining and during the joining process.
2. Make cement joints during early morning hours.
3. Apply cement quickly. On 6" and larger pipe, it is recommended that two men apply cement to pipe surface while the third applies it to the fitting socket.
4. Join pipe to fittings as quickly as possible after applying cement.

Cold Weather Cementing

Because the solvents in the cement will not evaporate as readily when the temperature is below 40°F, the pipe joints will not set up as rapidly in cold weather. If solvent cementing must be done when the temp. is below 40°F, the following suggestions are offered:

1. Store pipe, fittings, cement & primer in heated area.
2. Pre-fab as much of the system as possible in a heated work area.
3. Joints that must be made outside should be protected with a portable shelter and heated with indirect heat to surface temperatures above 40°F prior to joining. The shelter and heat should remain in place for at least two hours after joint assembly.
4. Pipe and fittings must be dry prior to joining and the joints should be kept dry until the cement has had sufficient time to set.

CAUTION: DO NOT ATTEMPT TO SPEED THE SETTING OR DRYING OF THE CEMENT BY APPLYING DIRECT HEAT TO THE SOLVENT WELDED JOINT. Forced rapid drying by heating will cause the cement solvents to boil off, forming porosity,bubbles and blisters in the cement film.

*** For Primer: Double the number of joints shown for cement. These figures are estimates based on our laboratory tests. Due to many variables in the field, these figures should be used as a general guide only.**

Handling of Primer and Cement

NOTE: Observe the "use prior to" date. Cement has a limited shelf life. Do not permit solvent cement can to stand open. Do not use cement that has dried to the point where it becomes lumpy and stringy. Throw it away. Do not attempt to thin out sluggish cement with thinner or primer.

ALSCO Industrial Products, Inc.

1265 Mount Vernon Rd., Lithia Springs, GA 30122

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E-MAIL ADDRESS: _____ WEB SITE ADDRESS: _____

OFFICE MANAGER: _____ ACCOUNTS PAYABLE MANAGER: _____

KIND OF BUSINESS: _____ HOW LONG IN BUSINESS: _____

TYPE OF OWNERSHIP: ( ) CORPORATION ( ) PARTNERSHIP
( ) PROPRIETORSHIP ( ) INDIVIDUAL

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___ Pumps ___ Tanks ___ Instrumentation / Level Controls

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BANK REFERENCE

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I UNDERSTAND AND AGREE TO THE FOLLOWING:

1) IF CREDIT IS APPROVED, THE UNDERSIGNED AGREES TO PAY ALL INVOICES WITHIN THE TERMS SPECIFIED BY ALSCO Industrial Products, Inc.
2) 2% FINANCE CHARGE WILL BE ADDED TO ANY ACCOUNT NOT PAID WITHIN 45 DAYS OF INVOICE DATE, 24 % PER ANNUM. IN EVENT OF NON-PAYMENT, REASONABLE ATTORNEY'S FEES WILL BE CHARGED.
3) IT IS AGREED THAT ALL SALES, WHETHER INVOICED TO THE COMPANY, AN INDIVIDUAL, PARTNER, OR OFFICER OF PURCHASERS COMPANY, SHALL NEVERTHELESS BE A DEBT TO THE PURCHASER WHICH I AM PERSONALLY RESPONSIBLE.

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Detailed Index

A

Ace Roto-Mold Tanks : 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545
Ace Tank Lids : 558
Acetal Tube Fittings : 33, 34, 35, 42
Actuated 3-Way Ball Valves : 271, 272, 273
Actuated Accessories, Electric : 254, 258, 318
Actuated Accessories, Pneumatic : 265, 318
Actuated Ball Valves : 250, 251, 252, 253, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 266, 267, 268, 269, 270
Actuated Butterfly Valves : 313, 314, 315, 316, 317, 318, 319
Actuated Control Ball Valves : 235, 237
Actuated Diaphragm Valves : 325, 326, 327, 328, 329, 330, 331
Actuators, Electric : 300, 301
Actuators, Pneumatic : 299
Aickinstrut Fiberglass Channel Framing System : 567, 568, 569, 570
Air Line System : 128, 129
Air Mixers : 492
Air Operated Drain Valves : 353
Air Operated Shut Off Valves : 352
Alarm Systems : 448, 450
ALSCO Credit Application : 606
ALSCO Sight Glasses : 380
American Granby PVC Saddle Tees : 116
Anti-Vortex Plate Assembly : 59
Applicator Tanks : 533, 536, 537, 538, 543
Asahi 3-Way Ball Valves : 245
Asahi Air-Pro Compressed Air Piping System : 126, 127
Asahi Ball Check Valves : 280, 281
Asahi Ball Valves : 217, 218, 230
Asahi Butterfly Valves : 307, 308, 309, 310, 311
Asahi Constant Flow Valves : 334
Asahi Diaphragm Valves : 320, 321
Asahi Duo-Bloc Ball Valves : 217, 218
Asahi Duo-Pro Double Containment Piping System : 177
Asahi Electric Actuated Options : 254
Asahi Electrically Actuated Ball Valves : 250, 251, 252, 253
Asahi Electrically Actuated Butterfly Valves : 313, 314
Asahi Electromni Electric Actuated Ball Valves : 255
Asahi Flange Gaskets : 62
Asahi Gate Valves : 332
Asahi Globe Valves : 333
Asahi Horizontal Swing Check Valves : 284
Asahi Omni Ball Valves : 230
Asahi Pneumatic Actuated Options : 265
Asahi Pneumatically Actuated Ball Valves : 261, 262, 263, 264
Asahi Pneumatically Actuated Butterfly Valves : 319
Asahi Pneumatically Actuated Diaphragm Valves : 326, 327
Asahi Stopcock Valves : 336
Asahi Welding Machines : 82
Asahi Y-Strainers : 372
ASCO Slow Closing Solenoid Valves : 356
Assmann Tanks : 546, 547, 548, 549, 550, 551, 552

B

Bag Filters : 379
Ball Check Valves : 276, 277, 278, 279, 280, 281
Ball Valves : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 241, 242, 337
Ball Valves, 3-Way : 245, 246, 247, 248, 249
Ball Valves, 3-Way PP Bolted : 241
Ball Valves, Asahi : 217, 218, 230
Ball Valves, Banjo : 239, 240, 241, 242
Ball Valves, Cepex : 224
Ball Valves, Chemtrol : 227, 228
Ball Valves, Clear PVC : 102
Ball Valves, Colonial : 222, 230
Ball Valves, Control : 232, 233, 234, 235, 236, 237
Ball Valves, GF : 219, 220, 221
Ball Valves, Hayward : 225, 226, 230, 232
Ball Valves, Metering : 232, 233, 234, 235, 236, 237
Ball Valves, Nil-Cor : 229
Ball Valves, Plast-O-Matic : 223, 224
Ball Valves, PP Bolted : 239, 240, 241, 242
Ball Valves, Single Union PP : 241
Ball Valves, Spears : 222
Ball Valves, Stainless Steel : 39, 236, 238
Ball Valves, True Union : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 232
Banjo 3-Way Electric Valves : 275
Banjo 3-Way PP Bolted Ball Valves : 241
Banjo 316 SS Cam and Groove Fittings : 46
Banjo ANSI Flange Valves : 240
Banjo Bulkhead Fittings : 55
Banjo Cast Iron Pumps : 489
Banjo Dry-Mates : 243, 244
Banjo Electric Valves : 274
Banjo FDA Union Valves : 335
Banjo Flange Gasket : 62
Banjo Flow Meters : 364
Banjo HD Pipe : 48
Banjo Hose Barb Fittings : 48, 49
Banjo Line Strainers : 373, 374, 375
Banjo Manifold Fittings : 365, 366, 367, 368
Banjo Manifold Flange Connections : 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370
Banjo Manifold Inductor System : 364
Banjo Manifold Line Strainers : 369
Banjo Manifold Tank Fittings : 370
Banjo PP Air Actuated Shutoff Valves : 335
Banjo PP Bolted Ball Valves : 239
Banjo PP Bolted Stubby Ball Valves : 242
Banjo PP Cam and Groove Fittings : 45
Banjo PP Check Valves : 335
Banjo PP Micro Valves : 231
Banjo PP Nozzle Valves : 240
Banjo PP Pumps : 488
Banjo Single Union PP Ball Valves : 241
Banjo Stainless Steel Ball Valves : 238
Banjo Stainless Steel Pumps : 489
Banjo Super Clamps : 51
Banjo T-Bolt Hose Clamps : 51
Banjo Tank Accessories : 559
Banjo Tank Lids : 559
Banjo Two Barrel Hardware Clamps : 50
Banjo Y-Strainers : 375
Barbed Tube Fittings : 36, 37
Basket Strainers : 376, 377, 378
Baskets, Replacement : 378
Batch Tanks : 527, 528
Beam Clamps : 579
Beckson Drum Pumps : 452
Bee Valve Cam and Grove Fittings : 44
Bee Valve Quick Connector Couplings : 42, 43
Bevelers : 124
Black Polypropylene Schedule 80 Fittings : 132, 133
Black Polypropylene Schedule 80 Pipe : 132
Blacoh Pulsation Dampeners : 483
Blacoh Spilltop : 482
Bleed Valves : 291, 292
Blue Monster PTFE Thread Seal Tape : 103, 122
Blue-White Flowmeters : 383, 384, 385, 386, 387
Bolt Kits : 60, 61
Bolt Kits, Butterfly : 60
Bolt Kits, Flange to Flange : 61

Detailed Index

Bolts, PVC/PP : 75
Bonomi Actuated Control Ball Valves : 237
Bonomi Control Ball Valves : 236
Bonomi Mini Stainless Steel Ball Valve : 238
Braid Reinforced Clear PVC Tubing : 16
Bulkhead Fittings : 52, 53, 54, 55, 56, 57, 58, 59
Bulkhead Gaskets : 54
Butterfly Valve Bolt Kits : 60
Butterfly Valves : 129, 294, 295, 296, 297, 298, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312
Butterfly Valves, Asahi : 307, 308, 309, 310, 311
Butterfly Valves, BVC : 312
Butterfly Valves, Cepex : 302
Butterfly Valves, Delta-T : 294, 295, 296, 297, 298
Butterfly Valves, Ductile Iron : 295, 297
Butterfly Valves, GF : 302, 303, 304
Butterfly Valves, Hayward : 305, 306
Butterfly Valves, Lug Style : 297, 298, 304, 305, 308, 312
Butterfly Valves, Nil-Cor : 311
Butterfly Valves, Stainless Steel : 296, 298, 308
Butterfly Valves, Wafer Style : 295, 296, 302, 303, 306, 307, 309, 310, 311, 312
BVC Butterfly Valves : 312

C

Cam and Groove Fittings : 44, 45, 46, 47
Cartridge Filters : 379
Casework : 76
Cast Iron Pumps : 489
Celcon Tube Fittings : 28, 29, 30, 31, 32
Cement and Primer Applicators : 122
Cements, Primers and Cleaners : 119, 120, 121
Centra-Guard Leak Detection System : 175
Centrifugal Pumps : 460, 461, 462, 463, 464
Centurion Molded Fiberglass Grating : 564
Century Bulkhead Fittings : 54
Cepex Air/Vacuum Relief Valves : 293
Cepex Ball Valves : 224
Cepex Butterfly Valves : 302
Cepex Double Union Ball Check Valves : 279
Cepex Double Union Spring Check Valves : 279
Cepex Industrial True Union Ball Valves : 224
Cepex Wafer Check Valves : 289
Champion Wafer Check Valves : 287
Channel, Accessories : 569, 570, 573, 574, 575, 576, 577, 578, 579, 580
Channel, Fiberglass : 567
Channel, Fiberglass Fittings : 568
Channel, Metal : 573
Check Valves : 155, 276, 277, 278, 279, 280, 281, 282, 283, 284, 286, 287, 288, 289, 335
Check Valves, Ball : 276, 277, 278, 279, 280, 281
Check Valves, Clear PVC : 102
Check Valves, Self Closing : 283
Check Valves, Spring : 279
Check Valves, Swing : 284, 285, 286
Check Valves, Wafer : 287, 288, 289
Chemical Metering Pumps : 486
Chemical Transfer Pumps : 454, 455, 456, 457, 458
Chemtainer Tanks : 553, 554, 555, 556, 557
Chemtrol Ball Check Valves : 278
Chemtrol Ball Valves : 227, 228
Chemtrol Black PP Schedule 80 Piping System : 132, 133
Chemtrol Natural PP Schedule 80 Piping System : 130, 131
Chemtrol Natural Schedule 80 PVDF Piping System : 148, 149
Chemtrol Red PVDF Schedule 80 Piping System : 150, 151
Chemtrol Tru-Bloc True Union Ball Valves : 227
Chemtrol True Union Ball Valves : 228
Chlorine Systems : 425
Cistern Tanks : 540, 541, 542
Clamps, Double Bolt : 23
Clamps, Hose : 50
Clamps, Stainless Steel Hose : 51
Cleaners, Cements and Primers : 120
Clear PVC Pipe and Fittings : 100, 101
Clear PVC Reinforced Tubing : 16, 17
Clear PVC Schedule 80 Nipples : 101
Clear PVC Tubing : 13, 14, 15
Clear Reinforced Vacuum/Pressure Hose : 17
Clear UV Resistant PVC Pipe : 103
Clear Y-Strainers : 371, 372
Clevis Hangers : 570, 579
Colonial Ball Valves : 222, 230
Colonial Slo-Close True Union Ball Valve : 222
Compressed Air Piping System : 126, 127
Concentric and Eccentric Reducers : 65
Cone Bottom Tanks : 523, 524, 525, 526, 556
Constant Flow Valves : 334
Containment Fittings, Double, GF Fuseal Squared : 171, 172, 173, 174
Containment Fittings, Secondary, GF Contain-It : 167, 168
Containment Fittings, Secondary, GF Double-See : 169, 170
Containment Pipe, Double, GF Fuseal Squared : 171
Containment Pipe, Secondary, GF Contain-It : 167
Containment Pipe, Secondary, GF Double-See : 169
Containment Systems : 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510
Containment Tank Basins : 549, 550, 551, 552
Containment Tanks : 530, 531, 547, 548
Control Ball Valves : 232, 233, 234, 235, 236, 237
Control Ball Valves, Bonomi : 236
Control Ball Valves, GF : 233
Control Ball Valves, Hayward : 232, 233
Controller Universal Multi-Color Display : 434
Corrosive Waste Drainage System : 206, 207, 208
Corrosive Waste Piping System : 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188
Corzan Duct and Fittings : 66, 67, 68
Corzan Expansion Joints : 63
Couplings, Grooved Pipe : 93
Couplings, Quick Connector : 42, 43
CPVC Fittings, Spears LabWaste Drainage System : 206, 207, 208
CPVC Fume Hoods : 76
CPVC Pipe, Spears LabWaste Drainage System : 206
CPVC Schedule 80 Fittings : 95, 96, 97, 98
CPVC Schedule 80 Nipples : 99
CPVC Schedule 80 Pipe : 94
CPVC Sheet and Shapes : 72
CPVC Solvent Cements : 119
Cushion Clamps : 577
Cushion Strut Clamps : 574, 575
Custom Casework : 76
Custom High Temperature Tanks : 77
Custom Hoods : 76
Custom Scrubbers : 77
CustomGuard Double Containment Piping System : 175
Cut Groove Specifications : 585
Cutters : 123, 124
Cutting Tools and Accessories : 123, 124, 125

D

Deburring Tools : 124
Delta-T Butterfly Valves : 294, 295, 296, 297, 298
Diaphragm Pump Accessories : 480, 481, 482, 483
Diaphragm Pumps : 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479
Diaphragm Valves : 155, 320, 321, 322, 323, 324
Diaphragm Valves, Asahi : 320, 321

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Diaphragm Valves, GF : 322, 323
Diaphragm Valves, Hayward : 324
Digital Pressure Gauges : 344, 345
Display LED Universal Controller : 434
Diverter Valves : 355
Dixon Mini Filters : 129, 493
Dixon Mini Regulators : 129, 493
Dixon Stainless Steel Hose Clamps : 51
Double Bolt Clamps : 23, 50
Double Bond Hose Clamps : 50
Double Containment Piping System : 171, 172, 173, 174, 175, 176, 177
Drain Valves : 353
Drainage System, Corrosive Waste : 206, 207, 208
Drainage System, Spears LabWaste CPVC Corrosive Waste : 206, 207, 208
Drum Hand Truck : 510
Drum Pump Flow Meters : 459
Drum Pump Kit,Finish Thompson : 482
Drum Pumps : 452, 453, 454, 455, 456, 457, 458
Drum Stacking Systems : 499
Drum Storage : 499, 507, 508, 510
Drum Workstations : 499
Dry Disconnect, Manifold : 363
Dry Media Valve : 338
Dry Poppet Coupling : 244
Dry Pressure Gauges : 341
Dry-Disconnects, PP : 243
Dry-Disconnects, SS : 244
Dry-Mates : 243, 244
Dualline Tanks : 531
Duct and Fittings, PVC and CPVC : 66, 67, 68
Ductile Iron Butterfly Valves : 295, 297
DuraDek Fiberglass Grating : 562, 563
DuraDek Fiberglass Handrail System : 566

E

Eagle Spill Containment Systems : 496, 497, 498, 499, 500, 501, 502
Electric Actuators : 254, 300, 301
Electric Mixers : 490, 491, 493, 494
Electric Valves : 274, 275
Electrically Actuated 3-Way Ball Valves : 271
Electrically Actuated Ball Valves : 250, 251, 252, 253, 255, 256, 257, 258, 259, 260
Electrically Actuated Butterfly Valves : 313, 314, 315, 316
Electrodes, Signet : 413, 414, 415, 416, 417, 418, 419, 420
Electronic Metering Pumps : 484, 485
Elliptical Tanks : 521
Encase Acid Waste PP Double Containment Piping System : 175
Epoxy Coated Wafer Check Valves : 287
Expansion Joints : 63, 64
Extren Fiberglass Structural Shapes : 565

F

Fastenal PVC Schedule 80 Fittings : 89
Faucets : 337, 338
FDA Union Valves : 335
Feeder Tanks : 532, 545
Fiberglass Channel Fittings : 568, 569, 570
Fiberglass Channel Framing : 567
Fiberglass Grating : 562, 563, 564
Fiberglass Hand Rail Systems : 566
Fiberglass Structural Shapes : 565
Fiberglass Vertical Tanks : 511
Filter Bags : 379
Filter Cartridges : 379
Filter Regulator : 482
Filters, Mini : 129
Filtration, Bag and Cartridge Filters : 379
Finish Thompson Air Batch Controller : 480
Finish Thompson Air Cycle Counter : 481
Finish Thompson Centrifugal Pumps : 460, 461, 462, 463, 464
Finish Thompson Diaphragm Pump Accessories : 480, 481, 482
Finish Thompson Drum Pump Kit : 482
Finish Thompson FDA Diaphragm Pumps : 478, 479
Finish Thompson Liquid Level Control : 481
Finish Thompson Metal Diaphragm Pumps : 473, 474, 475, 476, 477, 479
Finish Thompson Plastic Diaphragm Pumps : 469, 470, 471, 472, 478
Finish Thompson Rechargeable Drum Pump Kits : 453
Fittings, Barbed Tube : 36, 37
Fittings, Black PP Schedule 80 : 132, 133
Fittings, Bulkhead : 52, 53, 54, 55, 56, 57, 58, 59
Fittings, Cam and Groove : 44, 45, 46, 47
Fittings, Clear PVC : 100, 101
Fittings, Containment, Double, GF Fuseal Squared : 171, 172, 173, 174
Fittings, Containment, Secondary, GF Contain-It : 167, 168
Fittings, Containment, Secondary, GF Double-See : 169, 170
Fittings, CPVC Schedule 80 : 95, 96, 97, 98
Fittings, CPVC, Spears LabWaste Drainage System : 206, 207, 208
Fittings, HD Pipe and Hose Barb : 48
Fittings, Hose Barb : 48, 49
Fittings, Metal Bulkhead : 55, 58, 59
Fittings, Metal Hose Barb : 49
Fittings, Natural PP Schedule 80 : 130, 131
Fittings, PE, GF Cool-Fit ABS Plus : 158, 159, 160, 161, 162, 163
Fittings, PE100, GF Ecofit Metric : 209, 210, 211, 212, 213, 214
Fittings, PP Cam and Groove : 45
Fittings, PP, GF Fuseal Corrosive Waste : 179, 180, 181, 182, 183, 184
Fittings, PP, GF PPro-Seal Natural : 203, 204, 205
Fittings, PP, GF Progef Euro Gray Standard : 190, 191, 192, 193, 194, 195, 196, 197, 198
Fittings, PP, GF Progef Natural : 199, 200, 201, 202
Fittings, PTFE, Micromold Fluor-O-Flo : 156
Fittings, PVC and PVDF Cam and Groove : 44
Fittings, PVC Fabricated : 111, 112, 113, 114
Fittings, PVC Schedule 40 : 108, 109, 110, 115
Fittings, PVC Schedule 40 Gray : 104, 105, 106
Fittings, PVC Schedule 80 : 86, 87, 88, 89, 90
Fittings, PVC, GF Lxt Clear Ultra Pure : 152, 153, 154
Fittings, PVDF, Chemtrol Natural Schedule 80 : 148, 149
Fittings, PVDF, Chemtrol Red Schedule 80 : 150, 151
Fittings, PVDF, GF Fuseal 25/50 Corrosive Waste : 185, 186, 187, 188
Fittings, PVDF, GF Sygef Plus HP : 142, 143, 144, 145, 146, 147
Fittings, PVDF, GF Sygef Standard : 134, 135, 136, 137, 138, 139, 140, 141
Fittings, Stainless Steel : 215
Fittings, Stainless Steel Reinforced : 90
Fittings, Tube : 27, 28, 29, 30, 31, 32, 33, 34, 35, 40, 41, 42, 43
Fittings, Tube Twist And Lock : 41
Flange Backup Ring : 214
Flange Gaskets : 61, 62
Flange Ring : 202
Flange Spray Shields : 435
Flange to Flange Bolt Kits : 61
Flat Bottom Tanks : 511, 512, 513, 514, 515, 516, 553, 554, 555, 557
Float Switches : 451
Flotect Vane Operated Flow Switches : 436
Flow Indicators : 351
Flow Sensors, GF Signet : 400, 401, 402, 403, 404, 405, 406, 407, 408, 409
Flow Switches : 433, 435, 436
Flowline Accessories : 449
Flowline DataLoop IS Level Indicator : 439
Flowline DataView Level Controller : 439
Flowline EchoPod Multi-Function Ultrasonic Transmitter : 442, 443
Flowline EchoPod Ultrasonic Level Transmitter : 442
Flowline EchoSafe Ultrasonic Level Transmitter : 440

Flowline EchoSonic II Ultrasonic Level Transmitter : 441
Flowline EchoSpan Ultrasonic Level Transmitter : 441
Flowline EchoTouch IS Ultrasonic Level Transmitter : 440
Flowline Instruments : 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449
Flowline Pulse Level Transmitters : 438
Flowline Smart Trak Installation Fitting : 449
Flowline Smart Trak with Compact Junction Box : 444
Flowline Smart Trak with Compact Level Controller : 444
Flowline Strobe Alert Compact Flash Alarm : 448
Flowline Switch-Pak Installation Fitting : 449
Flowline Switch-Pak with Compact Junction Box : 445
Flowline Switch-Pak with Compact Level Controller : 445
Flowline Switch-Pro Compact Junction Box : 448
Flowline Switch-Tek Optic Leak Detection Switch : 447
Flowline Switch-Tek Ultrasonic Level Switch : 446
Flowline Switch-Tek Vertical Buoyancy Level Switch : 447
Flowline Wave Radar Level Transmitters : 438
Flowmeters : 364, 382, 383, 384, 385, 386, 387, 433, 459
Fluid Presence Sensor : 437
Fluidtrol Reducers : 65
Fluor-O-Flo Tank Adapters : 54
Forsthoff Welding Gun : 81
Forsthoff Welding Tips : 81
FPM Flexible Tubing : 25
Free-Standing Tanks : 517, 518
Fuel Tanks : 529
Full Vacuum Transfer Tubing : 18
Fume Hoods : 76
Fume Removal Hose : 69
Fusion Tools : 82, 83, 84

G

Gaskets, Bulkhead : 54
Gaskets, Flange : 61, 62
Gate Valves : 332
Gauge Guards : 339, 340
Gauges, Pressure : 341, 342, 343, 344, 345, 346
Gauges, Pressure and Temperature : 341
GF 3-Way Ball Valves : 247, 248, 249
GF Ball Check Valves : 277
GF Ball Valves : 219, 220, 221
GF Bleed Valves : 291
GF Butterfly Valves : 302, 303, 304
GF Clear PVC Fittings : 100, 101
GF Clear PVC Pipe : 100
GF Contain-It Secondary Containment Piping System : 167, 168
GF Control Ball Valves : 233
GF Cool-Fit ABS Plus Piping System : 157, 158, 159, 160, 161, 162, 163, 164, 165, 166
GF Cool-Fit ABS Plus Piping System Accessories : 164, 165, 166
GF Diaphragm Valves : 322, 323
GF Double-See Vinyl Double Containment Piping System : 169, 170
GF Ecofit Metric PE100 Piping System : 209, 210, 211, 212, 213, 214
GF Electrically Actuated Ball Valves : 257, 258
GF Electrically Actuated Butterfly Valves : 315
GF Electrically Actuated Horizontal 3-Way Ball Valves : 271
GF EnviroKing Clear UV Resistant PVC Pipe : 103
GF Flowmeters : 382
GF Fuseal 25/50 PVDF Corrosive Waste Piping System : 185, 186, 187, 188
GF Fuseal PP Corrosive Waste Piping System : 178, 179, 180, 181, 182, 183, 184
GF Fuseal Squared Double Containment Piping System : 171, 172, 173, 174
GF Fusion Machines : 83, 84
GF Heat Exchangers : 560
GF Lxt Clear Ultra Pure Piping System : 152, 153, 154, 155
GF Lxt Clear Ultra Pure Valves : 155
GF Pneumatic Actuated Accessories : 268
GF Pneumatically Actuated Ball Valves : 266, 267, 268
GF Pneumatically Actuated Butterfly Valves : 317, 318
GF Pneumatically Actuated Diaphragm Valves : 328, 329, 330, 331
GF Pneumatically Actuated Horizontal 3-Way Ball Valves : 272, 273
GF PPro-Seal Natural PP Piping System : 203, 204, 205
GF Progef Euro Gray Standard PP Piping System : 189, 190, 191, 192, 193, 194, 195, 196, 197, 198
GF Progef Natural PP Piping System : 199, 200, 201, 202
GF PVC Compression Fittings : 115
GF PVC Flexible Couplings : 115
GF PVC Large Diameter Fittings : 114
GF PVC Schedule 120 Pipe : 117
GF PVC Schedule 80 Fittings : 89
GF Repair Coupling : 115
GF Signet 0486 Profibus Concentrator : 400
GF Signet 2000 Micro Flow Rotor Sensor : 406
GF Signet 2100 Turbine Flow Sensor : 407
GF Signet 2250 Submersible Hydrostatic Pressure Sensor : 424
GF Signet 2270 Ultrasonic Level Sensor : 410
GF Signet 2280 Tuning Forks : 411
GF Signet 2281 Multipoint Switch : 411
GF Signet 2282 Guided Float Switch : 410
GF Signet 2284 Ultrasonic Gap Switch : 411
GF Signet 2285 Level Float Switch : 410
GF Signet 2290 Non-contact Radar Level Transmitter : 412
GF Signet 2291 Guided Wave Radar Level Transmitter : 412
GF Signet 2350 Temperature Sensor : 424
GF Signet 2450 Pressure Sensors : 423
GF Signet 2507 Mini Flow Rotor Sensor : 407
GF Signet 2536 Rotor-X Paddlewheel Flow Sensors : 402
GF Signet 2537 Paddlewheel Flowmeter : 403
GF Signet 2540 SS High Performance Paddlewheel Flow Sensors : 405
GF Signet 2551 Magmeter Flow Sensors : 404
GF Signet 2552 Metal Magmeter Flow Sensors : 406
GF Signet 2630 Amperometric Chlorine Electrode : 420
GF Signet 2650 DryLoc Amperometric Electronics : 423
GF Signet 2724 - 2726 pH/ORP Electrodes : 414
GF Signet 2734 - 2736 pH/ORP Electrodes : 415
GF Signet 2750 DryLoc pH/ORP Sensor Electronics : 422
GF Signet 2756 - 2757 Wet-Tap Electrodes : 417
GF Signet 2759 pH/ORP System Tester : 429
GF Signet 2760 DryLoc pH/ORP Preamplifiers & Connectors : 422
GF Signet 2764 - 2767 Differential DryLoc pH/ORP Electrodes : 416
GF Signet 2774 - 2777 DryLoc pH/ORP Electrodes : 417
GF Signet 2818 - 2823 Conductivity/Resistivity Electrodes : 419
GF Signet 2839 - 2842 Conductivity Electrodes : 420
GF Signet 2850 Conductivity/Resistivity Sensor Electronics : 421
GF Signet 3519 Flow Wet-Tap Valve : 426
GF Signet 3719 pH/ORP Wet-Tap Assembly : 417
GF Signet 4150 Turbidimeter : 426
GF Signet 4150 Turbidimeter Calibration Kits : 427
GF Signet 4150 Turbidimeter Formazin Stock Kit : 427
GF Signet 4630 Chlorine Analyzer System : 425
GF Signet 4632 Chlorine Dioxide Analyzer System : 425
GF Signet 5090 Sensor-Powered Flow Monitor : 403
GF Signet 515 Rotor-X Paddlewheel Flow Sensors : 402
GF Signet 525 Metalex Paddlewheel Flow Sensor : 405
GF Signet 7310 Switching Power Supplies : 429
GF Signet 8059 External Relay Modules : 428
GF Signet 8150 Battery Powered Flow Totalizer : 400
GF Signet 8630 Chlorine Transmitter : 399
GF Signet 8860 Two-Channel Conductivity/Resistivity Controller : 399
GF Signet 8900 Multi-Parameter Controller : 395, 396, 397, 398
GF Signet 9900 Field Mount Transmitter Adapter Kit : 393
GF Signet 9900 Transmitter : 392, 393
GF Signet 9900 Transmitter Plug In Modules : 393

GF Signet 9900 Transmitter Rear Enclosure Kit : 394
GF Signet 9900-1BC Batch Controller System : 394
GF Signet 9950 Dual Channel Transmitter : 390, 391
GF Signet 9950 Relay Modules : 391
GF Signet Accessories : 427, 428, 429
GF Signet Accessories and Replacement Parts : 408
GF Signet Chlorine Systems : 425
GF Signet Conductivity/Resistivity Tool : 428
GF Signet Controllers : 394, 395, 396, 397, 398, 399
GF Signet Electrodes : 413, 414, 415, 416, 417, 418, 419, 420
GF Signet Flow Sensors : 401, 402, 403, 404, 405, 406, 407, 408, 409
GF Signet i-Go 8058 Signal Converter : 428
GF Signet Installation Fittings : 429, 430
GF Signet Installation Guidelines : 431
GF Signet Instrument Specifications : 388, 389, 396, 397, 398, 401, 413, 418
GF Signet Instruments : 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 426
GF Signet Level Sensors : 410, 411, 412
GF Signet Modules : 393
GF Signet pH/ORP Buffer Solutions : 427
GF Signet Portaflow 220/330 Portable Ultrasonic Flowmeter : 409
GF Signet Sensors : 421, 422, 423, 424
GF Signet Transmitter Adapter Kit : 393
GF Signet Transmitters : 390, 391, 392, 393
GF Signet Ultraflow U1000 Ultrasonic Flow Sensor : 409
GF Signet Ultraflow U3000 / U4000 Ultrasonic Flow Sensor : 409
GF Sygef Plus HP PVDF Piping System : 142, 143, 144, 145, 146, 147
GF Sygef Standard PVDF Piping System : 134, 135, 136, 137, 138, 139, 140, 141
GF True Union Ball Valves Type 546 : 219, 220, 221
GF Ventilating Valves : 291
GF Y-Check Valves : 282
Globe Valves : 333
Grating, Fiberglass : 562, 563, 564
Grooved Pipe Couplings : 93
Guardian Vinyl Double Containment Piping System : 175

H

Hand Drum Pumps : 452, 453
Hand Rail Systems : 566
Harvard Pressure Gauges : 341
Hayward 3-Way Ball Valves : 246
Hayward Air Release Valves : 293
Hayward Bag Filters : 379
Hayward Ball Check Valves : 276
Hayward Ball Valves : 225, 226, 230
Hayward Basket Strainers : 376, 377
Hayward Bulkhead Fittings : 52, 53
Hayward Bulkhead Gaskets : 54
Hayward Butterfly Valves : 305, 306
Hayward Cartridge Filters : 379
Hayward Control Ball Valves : 232, 233
Hayward Diaphragm Valves : 324
Hayward Electrically Actuated Ball Valves : 256
Hayward Electrically Actuated Butterfly Valves : 316
Hayward Needle Valves : 336
Hayward Pneumatically Actuated Butterfly Valves : 316
Hayward Pneumatically Actuated Diaphragm Valves : 325
Hayward Qic2 Ball Valve : 230
Hayward Replacement Baskets : 378
Hayward Solenoid Metering Pumps : 487
Hayward Solenoid Valves : 357
Hayward Swing Check Valves : 285
Hayward True Union Ball Valves : 225, 226, 232
Hayward Universal Stopcocks Kit : 336
Hayward Vacuum Breakers : 290
Hayward Wafer Check Valves : 288, 289
Hayward Y-Check Valves : 282
Hayward Y-Strainers : 371
HCL Herbie Clips : 50
HD Pipe and Hose Barb Fittings : 48
Heat Exchangers : 560, 561
Helix Hose Clamps : 23
Herbie Clips : 50
High Temperature Tanks : 77
HiTech Duravent Flexible Hose and Ducting : 69
Hoods : 76
Hose Barb Fittings : 48, 49
Hose Bibbs : 337
Hose Clamps : 50, 51
Hose, Fume Removal : 69
Hose, Polyurethane : 22
Hose, Polyurethane-lined PVC : 23
Hose, PVC Air and Water : 19
Hose, PVC Flexible : 69
Hose, PVC Suction and Blower : 22
Hose, PVC Suction and Transfer : 20, 21
Hose, Reinforced : 20, 21, 22, 23, 68
HydraZorb Channel Accessories : 574, 576, 577, 578, 579, 580

I

IBC Spill Containment Units : 498, 509, 510
ICON Dry Media Throttling Valve : 338
ICON Instruments : 432, 433, 434, 435
ICON Low Torque ANSI Flange Gaskets : 62
ICON Pressure Gauges : 342, 343, 344, 345
ICON Pump Accessories : 483
ICON VDC Power Supply : 434
Immersible Pumps : 466, 467, 468
Inductor Tanks : 526
Installation Fittings, Signet : 429, 430
Instruments, Flowline : 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449
Instruments, GF Signet : 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 426
Instruments, ICON : 432, 433, 434, 435
IPEX Duraplus Air Line System : 128, 129

J

Jaco Tube Fittings : 28, 29, 30, 31, 32
Jefferson Slow Closing Solenoid Valves : 356
John Guest Acetal By-Pass Valves : 40
John Guest Acetal Shut-Off Valves : 40
John Guest Polypropylene Angle Stop Adapter Valves : 40
John Guest Polypropylene Shut-Off Valves : 40
John Guest Speedfit : 41
John Guest Tube Fittings : 33, 34, 35
John Guest Valves : 40

K

Koflo Static Mixers : 495
Kuriyama Clear PVC Tubing : 15
Kuriyama Expansion Joints : 63
Kuriyama Food and Beverage Grade Tubing : 16
Kuriyama General Purpose Air and Water Hose : 19
Kuriyama Klearon Clear PVC Tubing : 13, 14
Kuriyama Metal Cam and Groove Fittings : 47
Kuriyama Polyair Air and Water Hose : 19
Kuriyama Polyspring PVC Vacuum/Transfer Hose : 18
Kuriyama Polyurethane-Lined Clear PVC Tubing : 15
Kuriyama Polywire PVC Vacuum/Transfer Hose : 18
Kuriyama Reinforced Vacuum/Pressure Hose : 17
Kuriyama Sight Glass Strainer Assembly : 381
Kuriyama Tiger Clamps : 23
Kuriyama Tigerflex Hose : 20, 21, 22, 23

Kuriyama Wire Reinforced Air Ducting Hose : 68
Kynar PVDF Flexible Tubing : 25
Kynar Tube Fittings : 28, 29, 30, 31, 32

L
Laboratory Dispensing Faucets : 338
Large Diameter PVC Fabricated Fittings : 111, 112, 113
Lasco PVC Large Diameter Fittings : 114
LCD Display Pressure Gauges : 345
Leak Detection Switches : 435, 447
Leak Detection System, Centra-Guard : 175
LED Display : 434
LED Display Pressure Gauges : 344
Level Controllers : 439, 444, 445, 450, 451
Level Indicators : 439
Level Sensors : 410, 411, 412
Level Switches : 435, 444, 445, 446, 447, 451
Level Transmitters : 434, 438, 440, 441, 442, 443
Line Strainers : 373, 374, 375
Linear Low Density Polyethylene Tubing : 24
Liquid Filled Pressure Gauges : 341, 342, 343
Liquid Level Alarm : 450
Liquid Level Control, Finish Thompson : 481
Litchfield Clic-x Pipe Hangers : 571
Livestock Tanks : 532, 545
LMI Electronic Metering Pumps : 484, 485
Lug Style Butterfly Valves : 297, 298, 304, 305, 308, 312
Lutz Drum Pump Flow Meters : 459
Lutz Pump Accessories : 458
Lutz Pumps : 454, 455, 456, 457, 458, 459

M
Magnetic Flow Meter : 432
Manifold Fittings : 365, 366, 367, 368
Manifold Flange Connections : 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370
Manifold Inductor System : 364
Manifold Inductors : 364
Manifold Line Strainers : 369
Manifold Tank Fittings : 370
Manifold Valves, 3-Way : 363
Manifold Valves, 5-Way : 360
Manifold Valves, Ball : 360, 363
Manifold Valves, Dry Disconnect : 363
Manifold Valves, Electric : 358, 359, 360
Manifold Valves, Pressure Spike : 360
Manifold Valves, Stubby : 361, 362
Marquest Gauge Guards : 340
Marquest Needle Valves : 336
Material Technical Data : 581
Max-Air Technology Anodized Aluminum Pneumatic Actuators : 299
Max-Air Technology Electric Actuators : 300, 301
Mercer Expansion Joints : 64
Metal Cam and Groove Fittings : 46, 47
Metal Diaphragm Pumps : 473, 474, 475, 476, 477, 479
Metal Hardware and Bases : 580
Metal Hose Barb Fittings : 49
Metal Straps : 578
Metal Strut Channel : 573
Metal Strut Channel and Accessories : 573, 574, 575, 576, 577, 578, 579, 580
Metal Strut Clamps : 574
Metal Tube Fittings : 38
Metal Valves : 39, 236, 237
Metering Ball Valves : 232, 233, 234, 235, 236, 237
Metering Pumps : 484, 485, 486, 487
Micro Ball Valves : 231
Micromold Fluor-O-Flo PTFE Piping System : 156
MicroMold Y-Strainers : 372
Mini Ball Valves : 238
Mini Filters : 129, 493
Mini Regulators : 129, 493
Mixer Accessories : 492, 493
Mixers : 490, 491, 492, 493, 494, 495
Molded Fiberglass Grating : 564
Monarch Rotary Hand Pump : 453

N
Natural PP Schedule 80 Fittings : 130, 131
Natural PP Schedule 80 Pipe : 130
NDS Swing Check Valve : 286
Needle Valves : 336
Neutralization Tanks : 557
NewAge PTFE FEP Chemical Tubing : 25
NewAge Silicone Tubing : 26
NewAge Unreinforced Polyurethane Tubing : 26
NewAge Vitube Flexible Tubing : 25
Nibco CPVC Schedule 80 Fittings : 95, 96, 97, 98
Nibco PVC Schedule 80 Fittings : 86, 87, 88, 89
Nil-Cor Ball Valves : 229
Nil-Cor Butterfly Valves : 311
Nipples, Clear PVC Schedule 80 : 101
Nipples, CPVC Schedule 80 : 99
Nipples, PVC Schedule 80 : 91, 92
Nipples, Stainless Steel : 216
Norwesco Bulkhead Fittings : 54
Norwesco Tank Lids : 558
Nozzle Valves : 240
Nylon Tube Fittings : 27, 28, 29, 30, 31, 32, 36, 37

P
Paddle Wheel Flow Meter : 432
Pallet Tanks : 535
Parker Linear Low Density Polyethylene Tubing : 24
Parker Polypropylene Tubing : 24
Parker Tube Fittings : 27
PE Fittings, GF Cool-Fit ABS Plus : 158, 159, 160, 161, 162, 163
PE Pipe, GF Cool-Fit ABS Plus : 157
PE100 Fittings, GF Ecofit Metric : 209, 210, 211, 212, 213, 214
PE100 Pipe, GF Ecofit Metric : 209
Pest Control Tanks : 539
PHD Channel : 573
Pickup Tanks : 532
Pipe Clamps : 569, 574
Pipe Couplings, Grooved : 93
Pipe Dope : 122
Pipe Hanger Accessories : 569, 571, 572, 574, 576, 577, 578, 579, 580
Pipe Hangers : 126, 570, 571, 572, 576, 577, 579
Pipe Joiners : 125
Pipe Penetration Seals : 118
Pipe Straps : 569, 578
Pipe Strut Mount Insulation Couplings : 576
Pipe Technical Data : 582, 583, 584
Pipe, Clear PVC : 100
Pipe, Clear UV Resistant PVC : 103
Pipe, Containment, Double, GF Fuseal Squared : 171
Pipe, Containment, Secondary, GF Contain-It : 167
Pipe, Containment, Secondary, GF Double-See : 169
Pipe, CPVC Schedule 80 : 94
Pipe, CPVC, Spears LabWaste Corrosive Waste Drainage System : 206
Pipe, PE, GF Cool-Fit ABS Plus : 157
Pipe, PE100, GF Ecofit Metric : 209
Pipe, PP, GF Fuseal Corrosive Waste : 178
Pipe, PP, GF PPro-Seal Natural : 203
Pipe, PP, GF Progef Euro Gray Standard : 189
Pipe, PP, GF Progef Natural : 199

Detailed Index

Pipe, PTFE, Micromold Fluor-O-Flo : 156
Pipe, PVC Schedule 120 : 117
Pipe, PVC Schedule 40 : 107
Pipe, PVC Schedule 80 : 85
Pipe, PVC, GF Lxt Clear Ultra Pure : 152
Pipe, PVDF, Chemtrol Natural Schedule 80 : 148
Pipe, PVDF, Chemtrol Red Schedule 80 : 150
Pipe, PVDF, GF Fuseal 25/50 Corrosive Waste : 185
Pipe, PVDF, GF Sygef Plus HP : 142
Pipe, PVDF, GF Sygef Standard : 134
Pipe, Stainless Steel : 215
PipeSeal Belts : 118
Piping System, Asahi Duo-Pro Double Containment : 177
Piping System, Chemtrol Black PP Schedule 80 : 132, 133
Piping System, Chemtrol Natural PP Schedule 80 : 130, 131
Piping System, Chemtrol Natural PVDF Schedule 80 : 148, 149
Piping System, Chemtrol Red PVDF Schedule 80 : 150, 151
Piping System, Compressed Air : 126, 127, 128, 129
Piping System, Corrosive Waste : 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188
Piping System, CustomGuard Double Containment : 175
Piping System, Double Containment : 171, 172, 173, 174, 175, 176, 177
Piping System, GF Contain-It Secondary Containment : 167, 168
Piping System, GF Cool-Fit ABS Plus : 157, 158, 159, 160, 161, 162, 163, 164, 165, 166
Piping System, GF Double-See Vinyl Double Containment : 169, 170
Piping System, GF Ecofit Metric PE100 : 209, 210, 211, 212, 213, 214
Piping System, GF Fuseal 25/50 PVDF Corrosive Waste : 185, 186, 187, 188
Piping System, GF Fuseal PP Corrosive Waste : 178, 179, 180, 181, 182, 183, 184
Piping System, GF Fuseal Squared Double Containment : 171, 172, 173, 174
Piping System, GF Lxt Clear Ultra Pure : 152, 153, 154, 155
Piping System, GF PPro-Seal Natural PP : 203, 204, 205
Piping System, GF Progef Euro Gray Standard PP : 189, 190, 191, 192, 193, 194, 195, 196, 197, 198
Piping System, GF Progef Natural PP : 199, 200, 201, 202
Piping System, GF Sygef Plus HP PVDF : 142, 143, 144, 145, 146, 147
Piping System, GF Sygef Standard PVDF : 134, 135, 136, 137, 138, 139, 140, 141
Piping System, Guardian Vinyl Double Containment : 175
Piping System, Micromold Fluor-O-Flo PTFE : 156
Piping System, Secondary Containment : 167, 168, 169, 170
Plast-O-Matic 3-Way Diverter Valves : 355
Plast-O-Matic 3-Way Solenoid Valves : 355
Plast-O-Matic Actuated Control Ball Valves : 235
Plast-O-Matic Air Operated Drain Valves : 353
Plast-O-Matic Air Operated Pinch Valves : 353
Plast-O-Matic Air Operated Shut Off Valves : 352
Plast-O-Matic Air Release Valves : 292
Plast-O-Matic Air-Actuated Pinch Valves : 335
Plast-O-Matic Ball Valves : 223, 224
Plast-O-Matic Calibration Columns : 382
Plast-O-Matic Compact Flow Switches : 436
Plast-O-Matic Control Ball Valves : 234
Plast-O-Matic Degassing Valves : 292
Plast-O-Matic Differential Pressure Flow Meters : 351
Plast-O-Matic Differential Pressure Gauges : 346
Plast-O-Matic Differential Pressure Indicators : 346
Plast-O-Matic Electrically Actuated Ball Valves : 259, 260
Plast-O-Matic Flowmeters : 382
Plast-O-Matic Fluid Presence Sensors : 437
Plast-O-Matic Gauge Guards : 339, 340
Plast-O-Matic Liquid Level Switches : 436
Plast-O-Matic Manual Shutoff Valves : 450
Plast-O-Matic Pneumatically Actuated Ball Valves : 269, 270
Plast-O-Matic Pressure and Temperature Gauges : 341
Plast-O-Matic Pressure Regulators : 347, 348, 349
Plast-O-Matic Proximity Sensor : 486
Plast-O-Matic Sanitary Connections : 224
Plast-O-Matic Self Closing Check Valves : 283
Plast-O-Matic Self Closing Diaphragm Check Valves : 283
Plast-O-Matic Self-Priming Pumps : 486
Plast-O-Matic Sight Glasses : 380
Plast-O-Matic Solenoid Valves : 354, 355
Plast-O-Matic Thermoplastic Pressure Switches : 348
Plast-O-Matic True Union Ball Valves : 223
Plast-O-Matic Vacuum Breakers : 290
Plast-O-Matic Variable Area Flow Indicators : 351
Plastic Diaphragm Pumps : 469, 470, 471, 472, 478
Plastic Tanks : 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557
Plastic Tubing : 24, 25, 26
Plastic Welders : 78, 79, 80, 81
Pneumatic Actuators : 265, 299
Pneumatically Actuated 3-Way Ball Valves : 272, 273
Pneumatically Actuated Ball Valves : 261, 262, 263, 264, 266, 267, 268, 269, 270
Pneumatically Actuated Butterfly Valves : 316, 317, 318, 319
Pneumatically Actuated Diaphragm Valves : 325, 326, 327, 328, 329, 330, 331
Poly Drums : 501, 502
Polyethylene Tubing, Linear Low Density : 24
Polypropylene and Polyethylene Sheets : 73
Polypropylene Tube Fittings : 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 43
Polypropylene Tubing : 24
Polyurethane Blower Hose : 22
Polyurethane-lined PVC Hose : 23
Power Supply 120 VAC - 24 VDC : 434
PP Bolted Ball Valves : 239, 240, 241, 242
PP Cam and Groove Fittings : 45
PP Dry-Disconnects : 243
PP Fittings, GF Fuseal Corrosive Waste : 179, 180, 181, 182, 183, 184
PP Fittings, GF PPro-Seal Natural : 203, 204, 205
PP Fittings, GF Progef Euro Gray Standard : 190, 191, 192, 193, 194, 195, 196, 197, 198
PP Fittings, GF Progef Natural : 199, 200, 201, 202
PP Fume Hoods : 76
PP Pipe, GF Fuseal Corrosive Waste : 178
PP Pipe, GF PPro-Seal Natural : 203
PP Pipe, GF Progef Euro Gray Standard : 189
PP Pipe, GF Progef Natural : 199
PP Scrubbers : 77
Pressure and Temperature Gauges : 341
Pressure Flow Meters : 351
Pressure Gauges : 341, 342, 343, 344, 345, 346
Pressure Indicators : 346
Pressure Regulators : 347, 348, 349, 350
Pressure Relief Valves : 357
Pressure Switches : 348
Pressure Transmitters : 434
Primer and Cement Applicators : 122
Primers, Cleaners and Cements : 120
Proximity Sensor : 486
PTFE Fittings, Micromold Fluor-O-Flo : 156
PTFE Pipe, Micromold Fluor-O-Flo : 156
PTFE Thread Seal Tape : 103
Pulsation Dampeners : 483
Pumps, Cast Iron : 489
Pumps, Centrifugal : 460, 461, 462, 463, 464
Pumps, Chemical Metering : 486
Pumps, Chemical Transfer : 454, 455, 456, 457, 458

Detailed Index

Pumps, Diaphragm : 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479
Pumps, Diaphragm Pulsation Dampener : 483
Pumps, Drum : 452, 453, 454, 455, 456, 457, 458
Pumps, Electronic Metering : 484, 485
Pumps, Immersible : 466, 467, 468
Pumps, Plastic : 460, 461, 465, 466, 467, 468, 488
Pumps, Self-Priming : 486
Pumps, Solenoid Metering : 487
Pumps, Stainless Steel : 462, 463, 464, 489
Pumps, Suction : 465
PVC Air and Water Hose : 19
PVC and CPVC Duct and Fittings : 66, 67, 68
PVC and PVDF Cam and Groove Fittings : 44
PVC Fabricated Fittings : 111, 112, 113, 114
PVC Fabricated Fittings, Large Diameter : 111, 112, 113
PVC Fittings and Accessories : 115
PVC Fittings, GF Lxt Clear Ultra Pure : 152, 153, 154
PVC Flexible Hose and Ducting : 69
PVC Fume Hoods : 76
PVC Pipe, GF Lxt Clear Ultra Pure : 152
PVC Saddles : 115, 116
PVC Schedule 120 Pipe : 117
PVC Schedule 40 Fittings : 108, 109, 110
PVC Schedule 40 Fittings Gray : 104, 105, 106
PVC Schedule 40 Pipe : 107
PVC Schedule 80 Fittings : 86, 87, 88, 89, 90
PVC Schedule 80 Nipples : 91, 92
PVC Schedule 80 Pipe : 85
PVC Scrubbers : 77
PVC Shapes : 71
PVC Sheet and Shapes : 70
PVC Sight Glasses : 380
PVC Solvent Cements : 119
PVC Suction and Transfer Hose : 20, 21
PVC, Air and Water Hose : 19
PVC, Clear Reinforced Tubing : 16, 17
PVC, Clear Tubing : 13, 14, 15
PVC, Vacuum/Transfer Hose : 18
PVC/PP Bolts, Nuts and Washers : 75
PVDF Fittings, Chemtrol Natural Schedule 80 : 148, 149
PVDF Fittings, Chemtrol Red Schedule 80 : 150, 151
PVDF Fittings, GF Fuseal 25/50 Corrosive Waste : 185, 186, 187, 188
PVDF Fittings, GF Sygef Plus HP : 142, 143, 144, 145, 146, 147
PVDF Fittings, GF Sygef Standard : 134, 135, 136, 137, 138, 139, 140, 141
PVDF Flexible Tubing : 25
PVDF Pipe, Chemtrol Natural Schedule 80 : 148
PVDF Pipe, Chemtrol Red Schedule 80 : 150
PVDF Pipe, GF Fuseal 25/50 Corrosive Waste : 185
PVDF Pipe, GF Sygef Plus HP : 142
PVDF Pipe, GF Sygef Standard : 134
PVDF Sheets and Rods : 74

Q

Quick Connector Couplings : 42, 43

R

Reducers, Concentric and Eccentric : 65
Reducers, Stainless Steel : 65
Reed Tools and Accessories : 123, 124, 125
Regulators, Mini : 129
Regulators, Pressure : 347, 348, 349, 350
Reinforced Hose : 20, 21, 22, 23, 68
Reinforced Tubing, Clear PVC : 16, 17
Reinforced Tubing, Vacuum Transfer : 18
Replacement Baskets : 378
Rhino Bulkhead Fittings : 59
Rhombus Float Switches : 451
Rhombus Tank Alert Alarm System : 450
Riser Clamps : 578
Round Tanks : 522

S

S-Lok Stainless Steel Ball Valves : 39
S-Lok Tube Fittings : 38
Saddles, PVC : 115, 116
Sanking Clear PVC Ball Valve : 102
Sanking Clear PVC Check Valve : 102
Scrubbers : 77
Seals, Pipe : 118
Secondary Containment Piping System : 167, 168, 169, 170
Self Closing Check Valves : 283
Self-Priming Pumps : 486
Sensors, Signet : 421, 422, 423, 424
Septic Tanks : 540, 541, 542
Sheets and Shapes, CPVC : 72
Sheets and Shapes, PP and PE : 73
Sheets and Shapes, PVC : 70, 71
Sheets and Shapes, PVDF : 74
Shutoff Valves : 335, 352, 450
Sight Glass Strainer : 381
Sight Glasses : 380
Signalmaster Control Switches : 451
Signet 0486 Profibus Concentrator : 400
Signet 2000 Micro Flow Rotor Sensor : 406
Signet 2100 Turbine Flow Sensor : 407
Signet 2250 Submersible Hydrostatic Pressure Sensor : 424
Signet 2270 Ultrasonic Level Sensor : 410
Signet 2280 Tuning Forks : 411
Signet 2281 Multipoint Switch : 411
Signet 2282 Guided Float Switch : 410
Signet 2284 Ultrasonic Gap Switch : 411
Signet 2285 Level Float Switch : 410
Signet 2290 Non-contact Radar Level Transmitter : 412
Signet 2291 Guided Wave Radar Level Transmitter : 412
Signet 2350 Temperature Sensor : 424
Signet 2450 Pressure Sensors : 423
Signet 2507 Mini Flow Rotor Sensor : 407
Signet 2536 Rotor-X Paddlewheel Flow Sensors : 402
Signet 2537 Paddlewheel Flowmeter : 403
Signet 2540 SS High Performance Paddlewheel Flow Sensors : 405
Signet 2551 Magmeter Flow Sensors : 404
Signet 2552 Metal Magmeter Flow Sensors : 406
Signet 2630 Amperometric Chlorine Electrode : 420
Signet 2650 DryLoc Amperometric Electronics : 423
Signet 2724 - 2726 pH/ORP Electrodes : 414
Signet 2734 - 2736 pH/ORP Electrodes : 415
Signet 2750 DryLoc pH/ORP Sensor Electronics : 422
Signet 2756 - 2757 Wet-Tap Electrodes : 417
Signet 2759 pH/ORP System Tester : 429
Signet 2760 DryLoc pH/ORP Preamplifiers & Connectors : 422
Signet 2764 - 2767 Differential DryLoc pH/ORP Electrodes : 416
Signet 2774 - 2777 DryLoc pH/ORP Electrodes : 417
Signet 2818 - 2823 Conductivity/Resistivity Electrodes : 419
Signet 2839 - 2842 Conductivity Electrodes : 420
Signet 2850 Conductivity/Resistivity Sensor Electronics : 421
Signet 3519 Flow Wet-Tap Valve : 426
Signet 3719 pH/ORP Wet-Tap Assembly : 417
Signet 4150 Turbidimeter : 426
Signet 4150 Turbidimeter Calibration Kits : 427
Signet 4150 Turbidimeter Formazin Stock Kit : 427
Signet 4630 Chlorine Analyzer System : 425
Signet 4632 Chlorine Dioxide Analyzer System : 425
Signet 5090 Sensor-Powered Flow Monitor : 403
Signet 515 Rotor-X Paddlewheel Flow Sensors : 402

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Signet 525 Metalex Paddlewheel Flow Sensor : 405
Signet 7310 Switching Power Supplies : 429
Signet 8059 External Relay Modules : 428
Signet 8150 Battery Powered Flow Totalizer : 400
Signet 8630 Chlorine Transmitter : 399
Signet 8860 Two-Channel Conductivity/Resistivity Controller : 399
Signet 8900 Multi-Parameter Controller : 395, 396, 397, 398
Signet 9900 Field Mount Transmitter Adapter Kit : 393
Signet 9900 Transmitter : 392, 393
Signet 9900 Transmitter Plug In Modules : 393
Signet 9900 Transmitter Rear Enclosure Kit : 394
Signet 9900-1BC Batch Controller System : 394
Signet 9950 Dual Channel Transmitter : 390, 391
Signet 9950 Relay Modules : 391
Signet Accessories : 427, 428, 429
Signet Accessories and Replacement Parts : 408
Signet Chlorine Systems : 425
Signet Conductivity/Resistivity Tool : 428
Signet Controllers : 394, 395, 399
Signet Electrodes : 413, 414, 415, 416, 417, 418, 419, 420
Signet Flow Sensors : 401, 402, 403, 404, 405, 406, 407, 408, 409
Signet i-Go 8058 Signal Converter : 428
Signet Installation Fittings : 429, 430
Signet Installation Guidelines : 431
Signet Instrument Specifications : 388, 389, 396, 397, 398, 401, 413, 418
Signet Instruments : 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 426
Signet Level Sensors : 410, 411, 412
Signet Modules : 391, 393
Signet pH/ORP Buffer Solutions : 427
Signet Portaflow 220/330 Portable Ultrasonic Flowmeter : 409
Signet Sensors : 421, 422, 423, 424
Signet Transmitter Adapter Kit : 393
Signet Transmitters : 390, 391, 392, 393
Signet Ultraflow U1000 Ultrasonic Flow Sensor : 409
Signet Ultraflow U3000 / U4000 Ultrasonic Flow Sensor : 409
Signet, Ultrasonic Flow Sensors : 409
Silicone Tubing : 26
Single Union PP Ball Valves : 241
SMC Filter Regulator : 482
Solenoid Metering Pumps : 487
Solenoid Valves : 354, 355, 356, 357
Solvent Cement, CPVC : 119
Solvent Cement, PVC : 119
Spears Ball Valves : 222
Spears Bulkhead Fittings : 56, 57
Spears Gate Valves : 332
Spears LabWaste CPVC Corrosive Waste Drainage System : 206, 207, 208
Spears PVC Schedule 40 Fittings Gray : 104, 105, 106
Spears PVC Schedule 80 Gray Clamp-On Saddles : 116
Spears PVC Schedule 80 Nipples : 91, 92
Spears PVC Schedule 80 Reinforced Fittings : 90
Spears True Union Ball Valves : 222
Spill Containment Accessories : 500, 510
Spill Containment Basins : 496
Spill Containment Decks : 505, 506, 507
Spill Containment Drum Storage : 499, 507, 508
Spill Containment Drums : 501, 502
Spill Containment IBC Units : 498, 509, 510
Spill Containment Kit Boxes : 498
Spill Containment Pallets : 496, 503, 504, 505, 509
Spill Containment Platforms : 497
Spill Containment Systems : 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510
Spill Containment Trays : 510
Spray Shields : 435
Sprayer Tanks : 533, 544
Spring Check Valves : 279
SS Dry-Disconnects : 244
Stackable Tote Tanks : 534
Stainless Steel Ball Valves : 39, 236, 237, 238
Stainless Steel Butterfly Valves : 296, 298
Stainless Steel Fittings : 215
Stainless Steel Hose Clamps : 51
Stainless Steel Nipples : 216
Stainless Steel Pipe : 215
Stainless Steel Pumps : 489
Stainless Steel Reducers : 65
Stainless Steel Tubing : 39
Static Mixers : 495
Stopcock Valves : 336
Strainer Baskets : 378
Strainers, Basket : 376, 377
Strainers, Line : 373, 374, 375
Strainers, Sight Glass : 381
Strainers, T : 373, 375
Strainers, Y : 371, 372, 374, 375
Structural Shapes : 565
Strut Mount Insulation Couplings : 576
Strut Nuts : 578
Stubby Valves : 242, 361, 362
Suction and Blower Hose : 22
Suction Pumps : 465
Swing Check Valves : 284, 285

T

T-Strainers : 373, 375
Tank Fittings : 52, 53, 54, 55, 56, 57, 58, 59
Tank Lids and Accessories : 558, 559
Tanks : 77
Tanks, Accessories : 516, 519, 520, 521, 522, 525, 526, 529, 537, 538, 539, 542, 544, 549, 550, 551, 552
Tanks, Applicator : 533, 536, 537, 538, 539, 543, 544
Tanks, Batch : 527, 528, 529
Tanks, Blow Molded Inductor Sets : 525
Tanks, Bulk Storage : 536, 537, 538
Tanks, Cone Bottom Bulk Storage : 523, 524, 556
Tanks, Cone Bottom Stands : 525
Tanks, Containment : 530, 531, 546, 547, 548
Tanks, Containment Basins : 549, 550, 551, 552
Tanks, Elliptical : 521
Tanks, Feeder : 545
Tanks, Fiberglass Vertical : 511
Tanks, Flat Bottom : 511
Tanks, Flat Bottom Vertical Storage : 512, 513, 514, 515, 516, 553, 554, 555, 557
Tanks, Free-Standing Horizontal Bulk Storage : 517, 518
Tanks, Fuel : 529
Tanks, High Temperature : 77
Tanks, Inductor Bulk Storage : 526
Tanks, Inductor Stands : 526
Tanks, Lids and Accessories : 558, 559
Tanks, Livestock : 532
Tanks, Neutralization : 557
Tanks, Pallet : 535
Tanks, Pickup : 532
Tanks, Plastic : 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557
Tanks, Round Horizontal Bulk Storage : 522
Tanks, Septic/Cistern : 540, 541, 542
Tanks, Stackable Tote : 534
Tanks, Water : 538
Tape, Blue Monster : 103

Detailed Index

Tape, PTFE : 103, 122
Technical Data, Abbreviations : 591
Technical Data, Butt Fusion : 598, 599, 600
Technical Data, Calculating Formulas : 594, 595
Technical Data, Conversion Factors : 588, 591, 592
Technical Data, Flanges : 589, 590
Technical Data, Friction Loss and Flow Velocity : 586, 587
Technical Data, HPF Fusion : 602
Technical Data, IR Fusion : 601
Technical Data, Material : 581
Technical Data, Pipe : 582, 583, 584, 585
Technical Data, Sheet Metal Thickness : 593
Technical Data, Socket Fusion : 596, 597, 603
Technical Data, Solvent Cementing : 604, 605
Temperature Controllers : 561
Thermoplastic Casework : 76
Three-Way Ball Valves : 245, 246, 247, 248, 249
Tiger Clamps Spiral Double Bolt Clamps : 50
Titan Boltless Bulkhead Fittings : 58
Tools, Cutting and Accessories : 123, 124, 125
Tools, Fusion : 82, 83, 84
Tractor Tanks : 543
Transmitter Rear Enclosure Kit : 394
True Union Ball Valves : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 232
Tube Fittings : 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38
Tube Fittings, Acetal : 33, 34, 35
Tube Fittings, Celcon : 28, 29, 30, 31, 32
Tube Fittings, Kynar : 28, 29, 30, 31, 32
Tube Fittings, Metal : 38
Tube Fittings, Nylon : 27, 28, 29, 30, 31, 32, 36, 37
Tube Fittings, Polypropylene : 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37
Tubing, Chemical : 25
Tubing, Clear PVC : 13, 14, 15
Tubing, Clear PVC Reinforced : 16, 17
Tubing, FPM Flexible : 25
Tubing, Full Vacuum Transfer : 18
Tubing, Linear Low Density Polyethylene : 24
Tubing, Metal : 39
Tubing, Plastic : 24, 25, 26
Tubing, PVDF Flexible : 25
Tubing, Silicone : 26
Tubing, Stainless Steel : 39
Tubing, Unreinforced Polyurethane : 26
Turbine Flow Meter : 432
TVI Y-Strainers : 371

U

Ultrasonic Flow Meter : 433
UltraTech Spill Containment Systems : 503, 504, 505, 506, 507, 508, 509, 510
Union Valves : 335
Unreinforced Polyurethane Tubing : 26

V

Vacuum Breakers : 290
Valves, 3-Way Ball : 245, 246, 247, 248, 249
Valves, Actuated 3-Way Ball : 271, 272, 273
Valves, Actuated Ball : 250, 251, 252, 253, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 266, 267, 268, 269, 270
Valves, Actuated Butterfly : 313, 314, 315, 316, 317, 318, 319
Valves, Actuated Diaphragm : 325, 326, 327, 328, 329, 330, 331
Valves, Angle Stop : 40
Valves, Ball : 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 241, 242, 337
Valves, Bleed : 291, 292, 293
Valves, Butterfly : 294, 295, 296, 297, 298, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312
Valves, Check : 155, 276, 277, 278, 279, 280, 281, 282, 283, 286, 287, 288, 289, 335
Valves, Clear Ultra Pure : 155
Valves, Constant Flow : 334
Valves, Diaphragm : 155, 320, 321, 322, 323, 324
Valves, Diverter : 355
Valves, Drain : 353
Valves, Dry Media : 338
Valves, Dry-Disconnect : 243, 244
Valves, Electric : 274, 275
Valves, Gate : 332
Valves, Globe : 333
Valves, Manifold : 358, 359, 360, 361, 362, 363
Valves, Metal : 39
Valves, Micro : 231
Valves, Needle : 336
Valves, Nozzle : 240
Valves, Pressure Relief : 357
Valves, Shutoff : 40, 41, 335, 352, 450
Valves, Solenoid : 354, 355, 356, 357
Valves, Stopcock : 336
Valves, Stubby : 242, 361
Valves, Swing Check : 284, 285
Valves, Tube : 40
Valves, Union : 335
Valves, Ventilating : 291, 292, 293
Valves, Y-Check : 282
Variable Area Flow Indicators : 351
VDC Power Supply : 434
Ventilating Valves : 291, 292, 293
Vises : 125

W

Wafer Check Valves : 287, 288, 289
Wafer Style Butterfly Valves : 295, 296, 302, 303, 306, 307, 309, 310, 311, 312
Walchem Pressure Relief Valves : 357
Water Tanks : 538
Waterway Clear PVC Gate Valves : 332
Webster Pumps : 465, 466, 467, 468
Wegener Spark Tester : 79
Wegener Welding Blowers : 80
Wegener Welding Gun Accessories : 80
Wegener Welding Guns : 78
Wegener Welding Tips : 79
Welders, Plastic : 78, 79, 80, 81
Welding Blowers : 80
Welding Gun Accessories : 80
Welding Guns : 78, 81, 82
Welding Spark Tester : 79
Welding Tips : 79, 81
Wingert Mixers : 490, 491, 492, 493, 494
Wrenches : 123

Y

Y-Check Valves : 282
Y-Strainers : 371, 372, 374, 375

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