



Design Pressure = 450 PSI @ 120 °F
 Min. Design Temperature = -20 °F @ 450 PSI
 Hydrotest Pressure = 495 PSI

450 PSI
 SIDE PORT

| Shell Length Code | L Inch (mm) | P1 Standard Inch (mm) | P2 Optional Inch (mm) | P3 Optional Inch (mm) | S Span In (mm) | Empty Weight Lb (kg) |
|-------------------|----------------|-----------------------------|-----------------------------|-----------------------------|----------------------|-------------------------|
| -1 | 58.7 (1492) | 47 (1194) | 45 (1143) | 46 (1168.4) | 1 @ 25 (635) | 88 (40) |
| -1.5 | 78.7 (2000) | 67 (1702) | 65 (1651) | 66 (1676.4) | 1 @ 42 (1067) | 97 (44) |
| -2 | 98.7 (2508) | 87 (2210) | 85 (2159) | 86 (2184.4) | 1 @ 56 (1422) | 104 (47) |
| -3 | 138.7 (3524) | 127 (3226) | 125 (3175) | 126 (3200.4) | 1 @ 80 (2032) | 119 (54) |
| -4 | 178.7 (4540) | 167 (4242) | 165 (4191) | 166 (4216.4) | 2 @ 64 (1626) | 132 (60) |
| -5 | 218.7 (5556) | 207 (5258) | 205 (5207) | 206 (5232.4) | 2 @ 78 (1981) | 150 (68) |
| -6 | 258.7 (6572) | 247 (6274) | 245 (6223) | 246 (6248.4) | 2 @ 92 (2337) | 165 (75) |
| -7 | 298.7 (7587) | 287 (7290) | 285 (7239) | 286 (7264.4) | 2 @ 106 (2692) | 181 (82) |
| -7.5 | 318.7 (8095) | 307 (7798) | 305 (7747) | 306 (7772.4) | 2 @ 114 (2896) | 190 (86) |
| -8 | 338.7 (8603) | 327 (8306) | 325 (8255) | 326 (8280.4) | 2 @ 120 (3048) | 196 (89) |

| ITEM | QTY | P/N | DESCRIPTION | MATERIAL |
|------|-----|-----------|---------------------------------------|----------------------------|
| 1 | 1 | 4080020 | Shell | Filament Wound, Epoxy FRP |
| 2 | 2 | 4080030 | Bearing Plate | 6061-T6 Aluminum, Anodized |
| 3 | 2 | 4080177-3 | Sealing Plate | Noryl GFN2 |
| 4 | 2 | 4080250 | Feed/Concentrate Port, 1-1/2", "D" | Stainless Steel, 316 |
| 5 | 4 | 6121187 | Retaining Ring, F/C Port, 1-1/2", "D" | Stainless Steel, 316 |
| 6 | 2 | 6184604-N | O-Ring Seal, F/C Port, 1-1/2", "D" | Ethylene Propylene |
| 7 | 2 | 4080309 | Permeate Port | Noryl GFN2 |
| 8 | 2 | 6100442MK | Head Seal | Ethylene Propylene |
| 9 | 2 | 6180229-N | Permeate Port Seal | Ethylene Propylene |
| 10 | 2 | 4080320 | Retaining Ring w/ Finger Pull | Stainless Steel, 316 |
| 11 | 2 | 6121200 | Retaining Ring, Permeate Port | Stainless Steel, 316 |
| 12 | 2* | 4080174 | Support Saddle | Thermoplastic Rubber |
| 13 | 2 | 4080137 | Strap Assembly | Stainless Steel, 316L |
| 14 | 4 | 6150001 | Strap Screw | Stainless Steel, 18-8 |
| 15 | 2 | A/R | Adapter | Thermoplastic |
| 16 | 1 | 4080165-1 | Thrust Cone | PVC Thermoplastic |
| 17 | 2 | 6180326-N | Adapter Seal | Ethylene Propylene |
| 18 | A/R | A/R | PWT Seal | Ethylene Propylene |
| 19 | 3 | 4080062-4 | Shim, Adapter | Noryl GFN2 |

NOTE: STANDARD PARTS ARE SHOWN FOR REFERENCE ONLY.
 CHECK ORIGINAL ORDER FOR ORDERING SPARE PARTS

| | | | | |
|---------------------------|-----|-------------------|-------------------|----------|
| APPROVED US 7/05/12 | ECO | REVISD 7/05/12 | DRAWING 101003 | REV V |
| CHECKED - | | | | |
| DRAWN BOA 7/05/12 | | | | |

PROTEC
 airisqwg

PRO 8-450-SP

NOTES:
 DIMENSIONS IN INCHES (MM APPROX).
 FOR REFERENCE ONLY, NOT FOR CONSTRUCTION UNLESS CERTIFIED
 SHIMMING OF THE SADDLES MAY BE REQUIRED
 CENTER VESSEL ON 2 OR 3 SUPPORTS AT SPAN(S) *S*.
 INCORRECT MANFOLDING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT
 AND MAY RESULT IN LEAKS AND PREMATURE FAILURE. TAKE EVERY
 PRECAUTION LISTED IN THE ENGINEERING PACKET OR USERS MANUAL.
 INTERNAL PERMEATE PRESSURE MUST NOT EXCEED 125 PSI.
 ASME SECTION X, 2010
 RP CODE STAMP OPTIONAL
 SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE