



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

GENERAL DIMENSIONS

| Shell Length Code | P3           |                    | S              | Empty Weight lb (kg) |
|-------------------|--------------|--------------------|----------------|----------------------|
|                   | L Inch (mm)  | Standard Inch (mm) |                |                      |
| -1                | 61.5 [1562]  | 46 [1168]          | 1 @ 25 [635]   | 146 [66]             |
| -2                | 101.5 [2578] | 86 [2184]          | 1 @ 56 [1422]  | 174 [79]             |
| -3                | 141.5 [3594] | 126 [3200]         | 1 @ 80 [2032]  | 202 [92]             |
| -4                | 181.5 [4610] | 166 [4216]         | 2 @ 64 [1626]  | 230 [104]            |
| -5                | 221.5 [5626] | 206 [5232]         | 2 @ 78 [1981]  | 258 [117]            |
| -6                | 261.5 [6642] | 246 [6248]         | 2 @ 92 [2337]  | 286 [130]            |
| -7                | 301.5 [7658] | 286 [7264]         | 2 @ 106 [2692] | 314 [143]            |
| -8                | 341.5 [8674] | 326 [8280]         | 2 @ 120 [3048] | 340 [154]            |

BILL OF MATERIALS

| ITEM | QTY | P/N         | DESCRIPTION                       | MATERIAL                           |
|------|-----|-------------|-----------------------------------|------------------------------------|
| 1    | 1   | 4080482     | Shell                             | Filament Wound, Epoxy FRP          |
| 2    | 2   | 4080481     | Bearing Plate                     | 6061-T6 Aluminum, Anodized, SB-221 |
| 3    | 2   | 4080177-3   | Sealing Plate                     | Noryl GFN2                         |
| 4    | 2   | 4080214     | Feed/Concentrate Port, 3", "K"    | SST Super Duplex, SA-790           |
| 5    | 2   | 6121373     | Retaining Ring, F/C Port, 3", "K" | Stainless Steel, 316, SA-479       |
| 6    | 2   | 6180340-N   | O-ring Seal, F/C Port, 3", "K"    | Ethylene Propylene                 |
| 7    | 2   | 6121343     | Retaining Ring, F/C Port, 3", "K" | Stainless Steel, 316, SA-479       |
| 8    | 2   | 4080308     | Permeate Port                     | Noryl GFN2                         |
| 9    | 2   | 6100442MK   | Head Seal                         | Ethylene Propylene                 |
| 10   | 2   | 6180229-N   | Permeate Port Seal                | Ethylene Propylene                 |
| 11   | 2   | 4080474     | Locking segment                   | Stainless Steel, CF8M, SA-351      |
| 12   | 2   | 6121200     | Retaining Ring, Permeate Port     | Stainless Steel, 316, SA-479       |
| 13   | 2*  | 4080175     | Support Saddle                    | Thermoplastic Rubber               |
| 14   | 2   | 4080137     | Strap Assembly                    | Stainless Steel, 316               |
| 15   | 2   | 6150001     | Strap Screw                       | Stainless Steel, 18-8              |
| 16   | 2   | A/R         | Membrane Adapter                  | Noryl GFN2                         |
| 17   | 1   | 4080165-3   | Thrust Cone                       | PVC Thermoplastic                  |
| 18   | 2   | 6180326-N** | Adapter Seal                      | Ethylene Propylene                 |
| 19   | 4   | A/R         | PWT Seal                          | Ethylene Propylene                 |
| 20   | 6   | 6150048     | Head Screw                        | Stainless steel, 18-8              |
| 21   | 3   | 4080062-4   | Shim, Adapter [5mm]               | Noryl GFN2                         |

\*3 each with shell length -4 and longer  
\*\*6180221-N when Permeate Port is not Noryl

NOTES:

DIMENSIONS IN INCHES (MM APPROX.)

FOR REFERENCE ONLY, NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED

SHIMMING OF THE SADDLES MAY BE REQUIRED

CENTER VESSEL ON 2 OR 3 SUPPORTS AT SPAN(S) "S".

INCORRECT MANIFOLDING 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.

AS PER ASME AND CRN REQUIRED  
ASME SECTION X 2021, RP/NB STAMP REQUIRED FOR CRN

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



BPV-8-1000-MSP

|      |     |          |
|------|-----|----------|
| ENGR | TS  | 01/28/21 |
| QLTY | MK  | 01/28/21 |
| MRKT | BOA | 01/28/21 |

|       |          |         |     |
|-------|----------|---------|-----|
| ECO   | REVISED  | DRAWING | REV |
| 20093 | 07/23/21 | 101040  | I   |