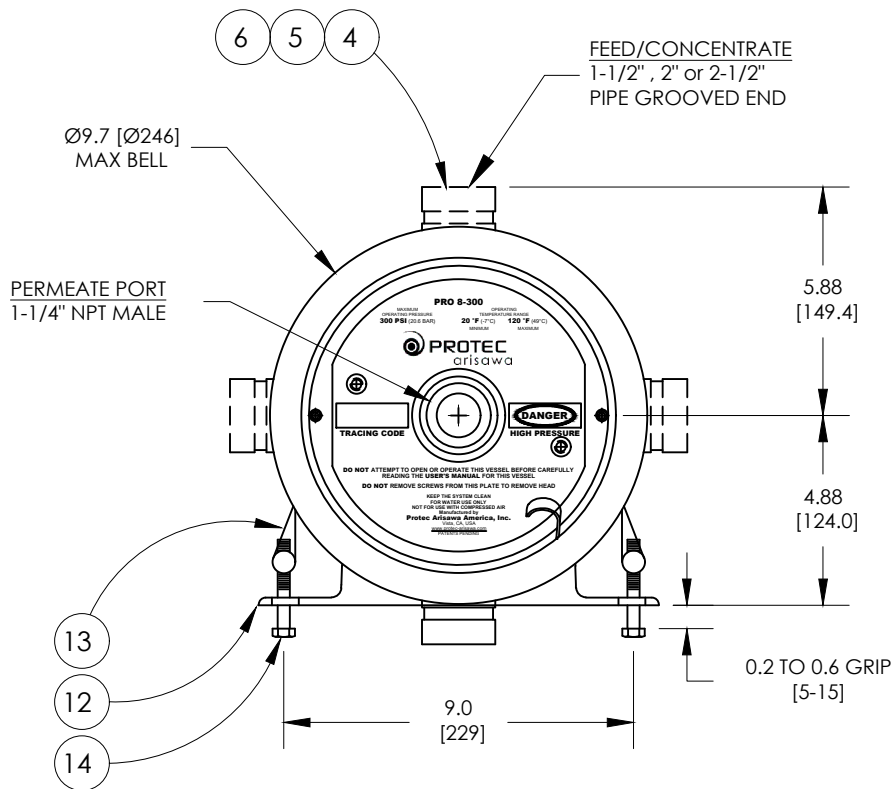
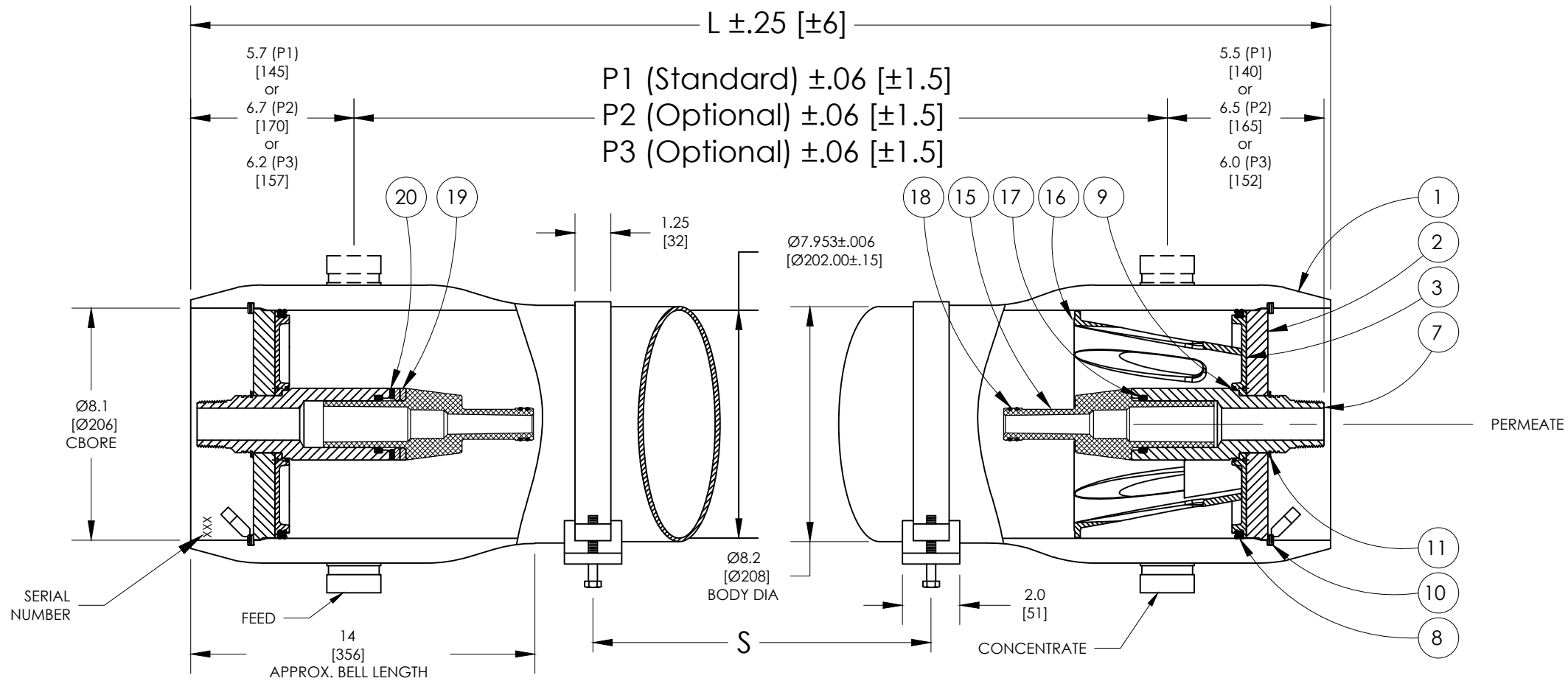




| GENERAL DIMENSIONS |                    |                                |                                |                                |                        |                            |
|--------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|----------------------------|
| Shell Length Code  | L<br>inch<br>(mm)  | P1<br>Standard<br>inch<br>[mm] | P2<br>Optional<br>inch<br>[mm] | P3<br>Optional<br>inch<br>[mm] | S<br>Span<br>inch [mm] | Empty Weight<br>lb<br>[Kg] |
| -1                 | 58.4<br>[1483.36]  | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 55<br>[25]                 |
| -2                 | 98.4<br>[2499.36]  | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 65<br>[30]                 |
| -3                 | 138.4<br>[3515.36] | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 75<br>[34]                 |
| -4                 | 178.4<br>[4531.36] | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 86<br>[39]                 |
| -5                 | 218.4<br>[5547.36] | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 96<br>[43]                 |
| -6                 | 258.4<br>[6563.36] | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 106<br>[48]                |
| -7                 | 298.4<br>[7579.36] | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 116<br>[53]                |
| -8                 | 338.4<br>[8595.36] | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 126<br>[57]                |

| BILL OF MATERIAL |     |           |                                       |                                    |  |
|------------------|-----|-----------|---------------------------------------|------------------------------------|--|
| ITEM             | QTY | P/N       | ITEM                                  | ITEM                               |  |
| 1                | 1   | 4080019   | Shell                                 | Filament Wound, Epoxy FRP          |  |
| 2                | 2   | 4080028   | Bearing Plate                         | 6061-T6 Aluminum, SB-221, Anodized |  |
| 3                | 2   | 4080177-3 | Sealing Plate                         | Noryl GFN2                         |  |
| 4                | 2   | 4080250   | Feed / Concentrate Port, 1-1/2", "D"  | SST 316L, SA-312                   |  |
|                  |     | 4080253-1 | Feed / Concentrate Port, 2", "E"      |                                    |  |
|                  |     | 4081080-1 | Feed / Concentrate Port, 2-1/2", "F"  |                                    |  |
| 5                | 4   | 6121187   | Retaining Ring, F/C Port, 1-1/2", "D" | SST 316L, SA-479                   |  |
|                  |     | 6121231   | Retaining Ring, F/C Port, 2", "E"     |                                    |  |
|                  |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F" |                                    |  |
| 6                | 2   | 6184604-N | O-Ring Seal, F/C Port, 1-1/2" "D"     | EPDM                               |  |
|                  |     | 6185704-N | O-Ring Seal, F/C Port, 2" "E"         |                                    |  |
|                  |     | 6180335-N | O-Ring Seal, F/C Port, 2-1/2" "F"     |                                    |  |
| 7                | 2   | 4080309   | Permeate Port                         | Noryl GFN2                         |  |
| 8                | 2   | 6100442MK | Head Seal                             | EPDM                               |  |
| 9                | 2   | 6110229-N | Permeate Port Seal                    | EPDM                               |  |
| 10               | 2   | 4080320   | Retaining Ring w/Finger Pull          | SST 316L, SA-479                   |  |
| 11               | 2   | 6121200   | Retaining Ring, Permeate Port         | SST 316L, SA-479                   |  |
| 12               | 2*  | 4080173   | Support Saddle                        | Thermoplastic Rubber               |  |
| 13               | 2   | 4080137   | Strap Assembly                        | SST 316L                           |  |
| 14               | 4   | 6150001   | Strap Screw                           | SST 18-8                           |  |
| 15               | 2   | A/R       | Adapter                               | Noryl GFN2 / Thermoplastic         |  |
| 16               | 1   | 4080163-3 | Thrust Cone                           | PVC                                |  |
| 17               | 2   | 6180326-N | Adapter Seal                          | EPDM                               |  |
| 18               | A/R | A/R       | PWT Seal                              | EPDM                               |  |
| 19               | 2   | 4080062-4 | Shim, Adapter [5mm]                   | Noryl GFN2                         |  |
| 20               | 2   | 4081441   | Shim, Adapter [2mm]                   | Noryl GFN2                         |  |

\*1 3 each with shell length -4 and longer

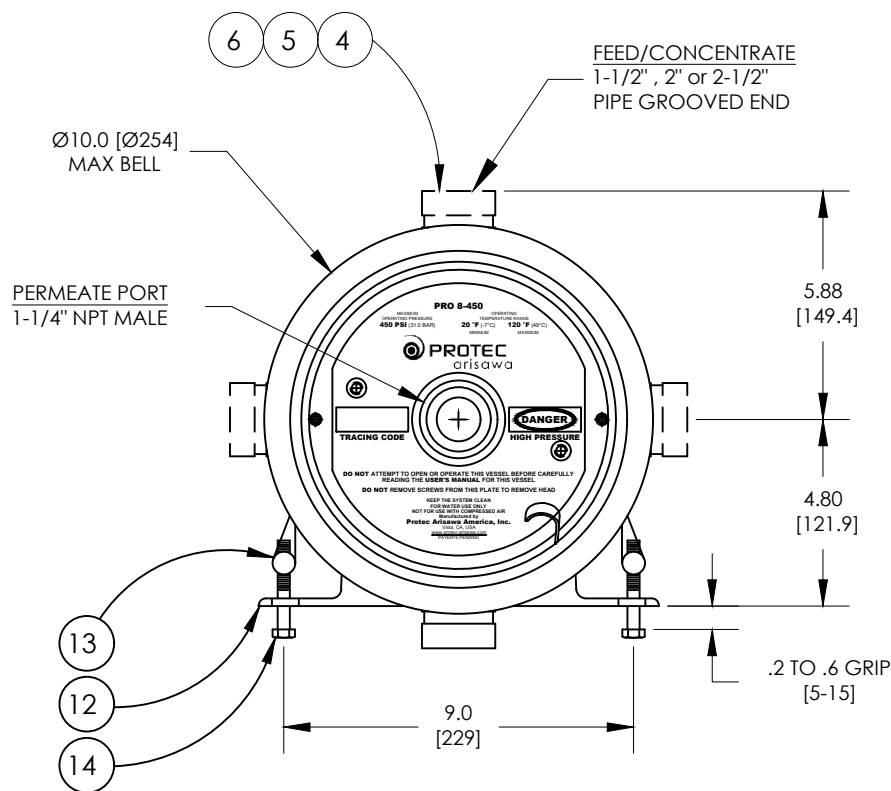
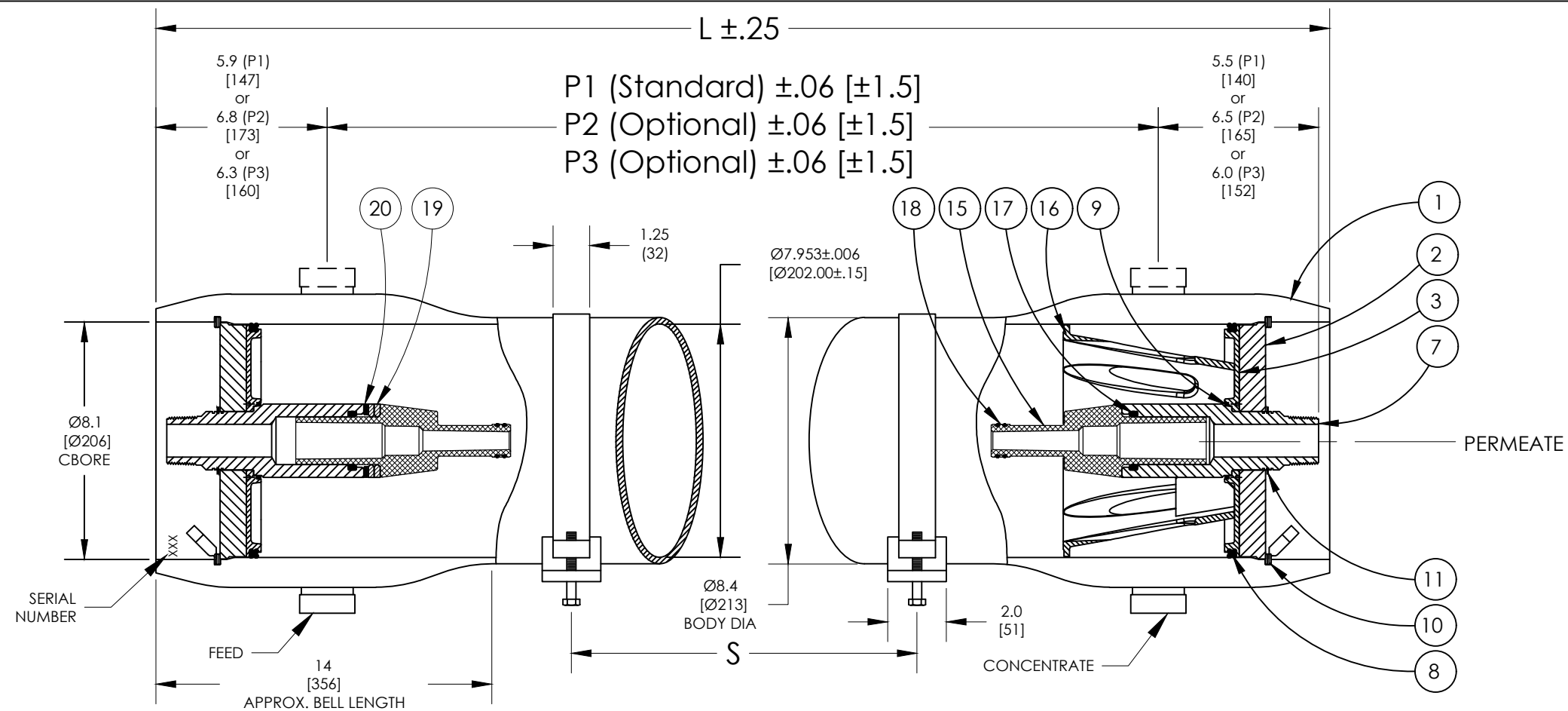
NOTE: STANDARD PARTS ARE SHOWN FOR REFERENCE ONLY  
CHECK ORIGINAL ORDER FOR ORDERING SPARE PARTS

**NOTES:**  
FILAMENT-WOUND CLASS 1 VESSEL  
DESIGN PRESSURE : 300 PSI  
HYDROTEST PRESSURE : 330PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : BRACKISH WATER  
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.  
ASME SECTION X 2025, RP/NB STAMP REQUIRED FOR CRN  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



PRO 8-300-SP

|                          |              |                       |                   |           |
|--------------------------|--------------|-----------------------|-------------------|-----------|
| ENGR<br>KI<br>09/17/2025 | PRO 8-300-SP |                       |                   |           |
| QTTY<br>TS<br>09/17/2025 |              |                       |                   |           |
| MRKT<br>KK<br>09/17/2025 | ECO<br>20156 | REVISED<br>09/26/2025 | DRAWING<br>101002 | REV<br>AB |



#### GENERAL DIMENSIONS

| Shell Length Code | L<br>inch<br>(mm)  | P1<br>Standard<br>inch<br>(mm) | P2<br>Optional<br>inch<br>(mm) | P3<br>Optional<br>inch<br>(mm) | S<br>Span<br>inch (mm) | Empty Weight<br>lb<br>(Kg) |
|-------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|----------------------------|
| -1                | 58.7<br>[1490.98]  | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 63<br>[29]                 |
| -2                | 98.7<br>[2506.98]  | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 78<br>[36]                 |
| -3                | 138.7<br>[3522.98] | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 93<br>[42]                 |
| -4                | 178.7<br>[4538.98] | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 108<br>[49]                |
| -5                | 218.7<br>[5554.98] | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 123<br>[56]                |
| -6                | 258.7<br>[6570.98] | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 138<br>[62]                |
| -7                | 298.7<br>[7586.98] | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 153<br>[69]                |
| -8                | 338.7<br>[8602.98] | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 167<br>[76]                |

#### BILL OF MATERIAL

| ITEM | QTY | P/N       | ITEM                                  | ITEM                               |
|------|-----|-----------|---------------------------------------|------------------------------------|
| 1    | 1   | 4080020   | Shell                                 | Filament Wound, Epoxy FRP          |
| 2    | 2   | 4080030   | Bearing Plate                         | 6061-T6 Aluminum, SB-221, Anodized |
| 3    | 2   | 4080177-3 | Sealing Plate                         | Noryl GFN2                         |
| 4    | 2   | 4080250   | Feed / Concentrate Port, 1-1/2", "D"  | SST 316L, SA-312                   |
|      |     | 4080253-1 | Feed / Concentrate Port, 2", "E"      |                                    |
|      |     | 4081080-1 | Feed / Concentrate Port, 2-1/2", "F"  |                                    |
| 5    | 4   | 6121187   | Retaining Ring, F/C Port, 1-1/2", "D" | SST 316L, SA-479                   |
|      |     | 6121231   | Retaining Ring, F/C Port, 2", "E"     |                                    |
|      |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F" |                                    |
| 6    | 2   | 6184604-N | O-Ring Seal, F/C Port, 1-1/2" "D"     | EPDM                               |
|      |     | 6185704-N | O-Ring Seal, F/C Port, 2" "E"         |                                    |
|      |     | 6180335-N | O-Ring Seal, F/C Port, 2-1/2" "F"     |                                    |
| 7    | 2   | 4080309   | Permeate Port                         | Noryl GFN2                         |
| 8    | 2   | 6100442MK | Head Seal                             | EPDM                               |
| 9    | 2   | 6110229-N | Permeate Port Seal                    | EPDM                               |
| 10   | 2   | 4080320   | Retaining Ring w/Finger Pull          | SST 316L, SA-479                   |
| 11   | 2   | 6121200   | Retaining Ring, Permeate Port         | SST 316L, SA-479                   |
| 12   | 2*  | 4080174   | Support Saddle                        | Thermoplastic Rubber               |
| 13   | 2   | 4080137   | Strap Assembly                        | SST 316L                           |
| 14   | 4   | 6150001   | Strap Screw                           | SST 18-8                           |
| 15   | 2   | A/R       | Adapter                               | Noryl GFN2 / Thermoplastic         |
| 16   | 1   | 4080163-3 | Thrust Cone                           | PVC                                |
| 17   | 2   | 6180326-N | Adapter Seal                          | EPDM                               |
| 18   | A/R | A/R       | PWT Seal                              | EPDM                               |
| 19   | 2   | 4080062-4 | Shim, Adapter [5mm]                   | Noryl GFN2                         |
| 20   | 2   | 4081441   | Shim, Adapter [2mm]                   | Noryl GFN2                         |

\*1 3 each with shell length -4 and longer

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

**NOTES:**  
FILAMENT-WOUND CLASS 1 VESSEL  
DESIGN PRESSURE : 450 PSI  
HYDROTEST PRESSURE : 495 PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : BRACKISH WATER  
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.  
ASME SECTION X 2025, RP/NB STAMP REQUIRED FOR CRN  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



# PRO 8-450-SP

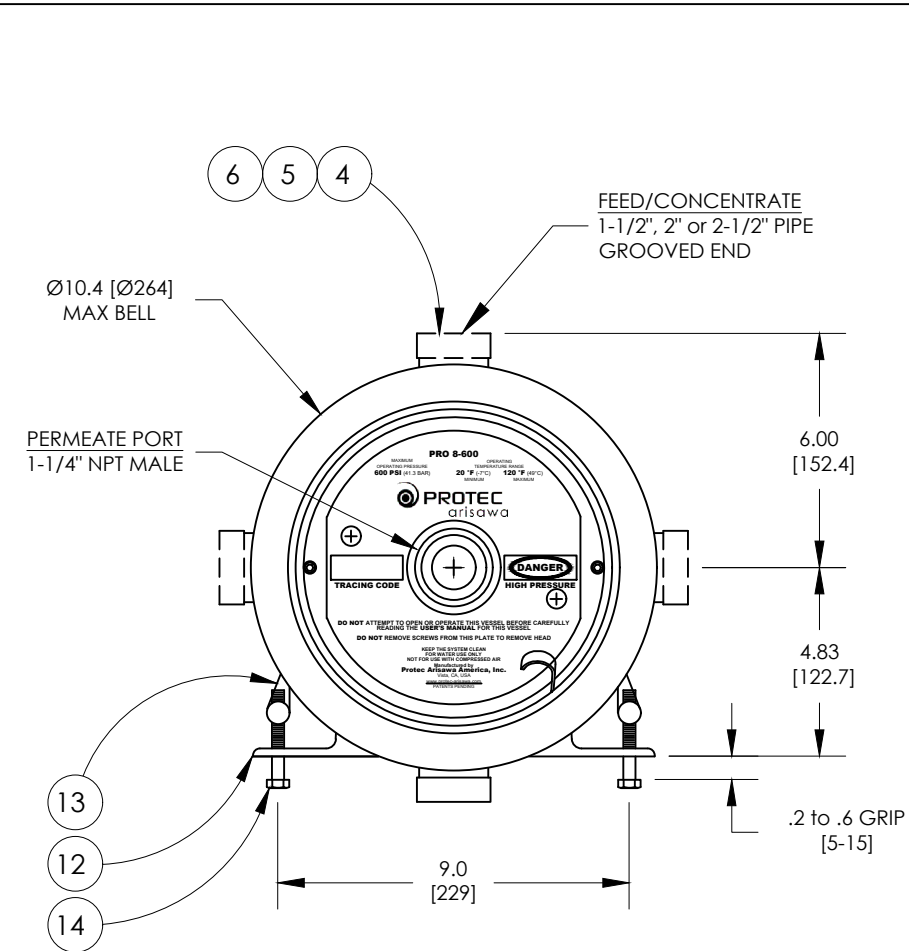
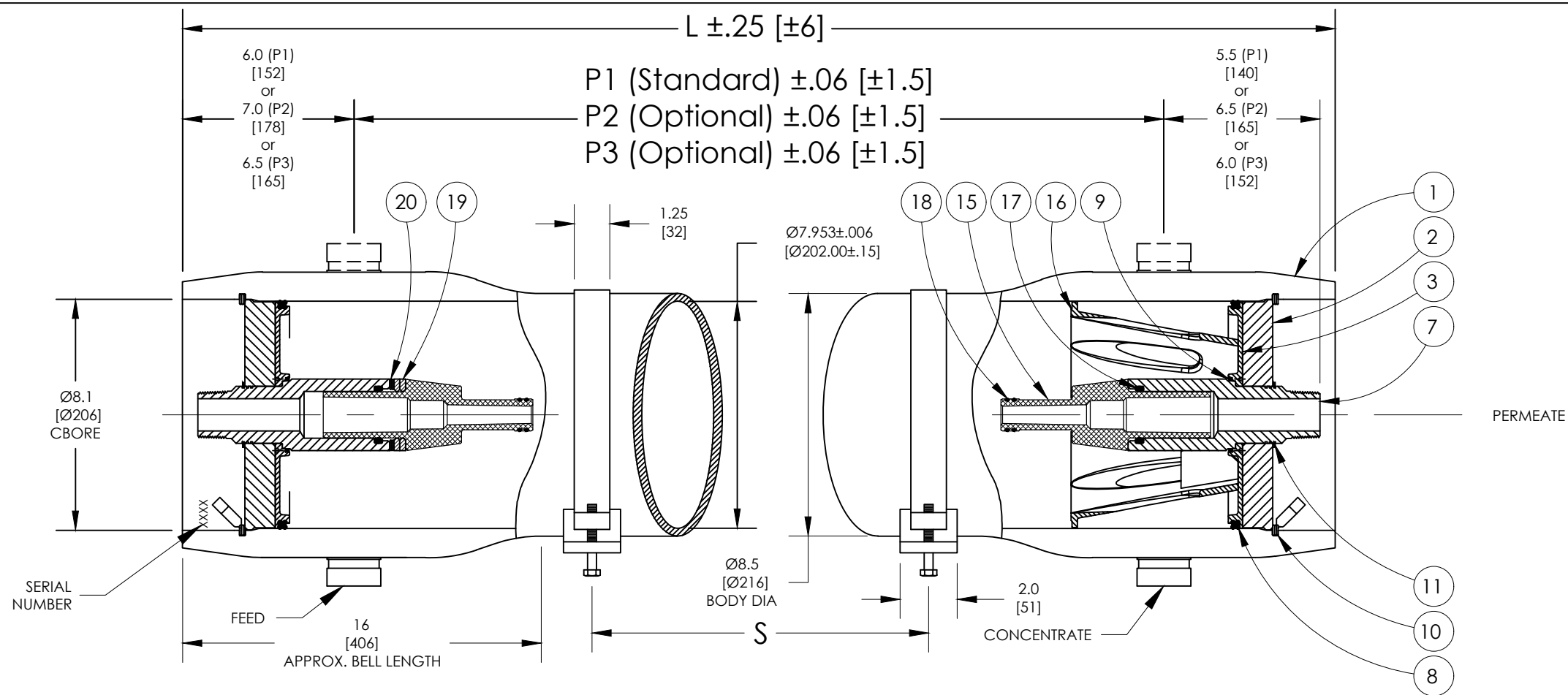
ENGR  
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09/18/2025

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20156

REVISED  
09/26/2025

DRAWING  
101003

REV  
C



| GENERAL DIMENSIONS |                   |                                |                                |                                |                        |                            |
|--------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|----------------------------|
| Shell Length Code  | L<br>inch<br>(mm) | P1<br>Standard<br>inch<br>[mm] | P2<br>Optional<br>inch<br>[mm] | P3<br>Optional<br>inch<br>[mm] | S<br>Span<br>inch [mm] | Empty Weight<br>lb<br>[Kg] |
| -1                 | 59<br>[1498.60]   | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 80<br>[36]                 |
| -2                 | 99<br>[2514.60]   | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 98<br>[44]                 |
| -3                 | 139<br>[3530.60]  | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 123<br>[56]                |
| -4                 | 179<br>[4546.60]  | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 155<br>[70]                |
| -5                 | 219<br>[5562.60]  | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 170<br>[77]                |
| -6                 | 259<br>[6578.60]  | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 205<br>[93]                |
| -7                 | 299<br>[7594.60]  | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 235<br>[107]               |
| -8                 | 339<br>[8610.60]  | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 265<br>[120]               |

| BILL OF MATERIAL |     |           |                                       |                                    |  |
|------------------|-----|-----------|---------------------------------------|------------------------------------|--|
| ITEM             | QTY | P/N       | ITEM                                  | ITEM                               |  |
| 1                | 1   | 4080021   | Shell                                 | Filament Wound, Epoxy FRP          |  |
| 2                | 2   | 4080032   | Bearing Plate                         | 6061-T6 Aluminum, SB-221, Anodized |  |
| 3                | 2   | 4080177-3 | Sealing Plate                         | Noryl GFN2                         |  |
| 4                | 2   | 4080257-1 | Feed / Concentrate Port, 1-1/2", "D"  | SST 316L, SA-312                   |  |
|                  |     | 4080258-1 | Feed / Concentrate Port, 2", "E"      |                                    |  |
|                  |     | 4080545-1 | Feed / Concentrate Port, 2-1/2", "F"  |                                    |  |
| 5                | 4   | 6121187   | Retaining Ring, F/C Port, 1-1/2", "D" | SST 316L, SA-479                   |  |
|                  |     | 6121231   | Retaining Ring, F/C Port, 2", "E"     |                                    |  |
|                  |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F" |                                    |  |
| 6                | 2   | 6184604-N | O-Ring Seal, F/C Port, 1-1/2" "D"     | EPDM                               |  |
|                  |     | 6185704-N | O-Ring Seal, F/C Port, 2" "E"         |                                    |  |
|                  |     | 6180233-N | O-Ring Seal, F/C Port, 2-1/2" "F"     |                                    |  |
| 7                | 2   | 4080309   | Permeate Port                         | Noryl GFN2                         |  |
| 8                | 2   | 6100442MK | Head Seal                             | EPDM                               |  |
| 9                | 2   | 6110229-N | Permeate Port Seal                    | EPDM                               |  |
| 10               | 2   | 4080320   | Retaining Ring w/Finger Pull          | SST 316L, SA-479                   |  |
| 11               | 2   | 6121200   | Retaining Ring, Permeate Port         | SST 316L, SA-479                   |  |
| 12               | 2*  | 4080174   | Support Saddle                        | Thermoplastic Rubber               |  |
| 13               | 2   | 4080137   | Strap Assembly                        | SST 316L                           |  |
| 14               | 4   | 6150001   | Strap Screw                           | SST 18-8                           |  |
| 15               | 2   | A/R       | Adapter                               | Noryl GFN2 / Thermoplastic         |  |
| 16               | 1   | 4080163-3 | Thrust Cone                           | PVC                                |  |
| 17               | 2   | 6180326-N | Adapter Seal                          | EPDM                               |  |
| 18               | A/R | A/R       | PWT Seal                              | EPDM                               |  |
| 19               | 2   | 4080062-4 | Shim, Adapter [5mm]                   | Noryl GFN2                         |  |
| 20               | 2   | 4081441   | Shim, Adapter [2mm]                   | Noryl GFN2                         |  |

\*1 3 each with shell length -4 and longer

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

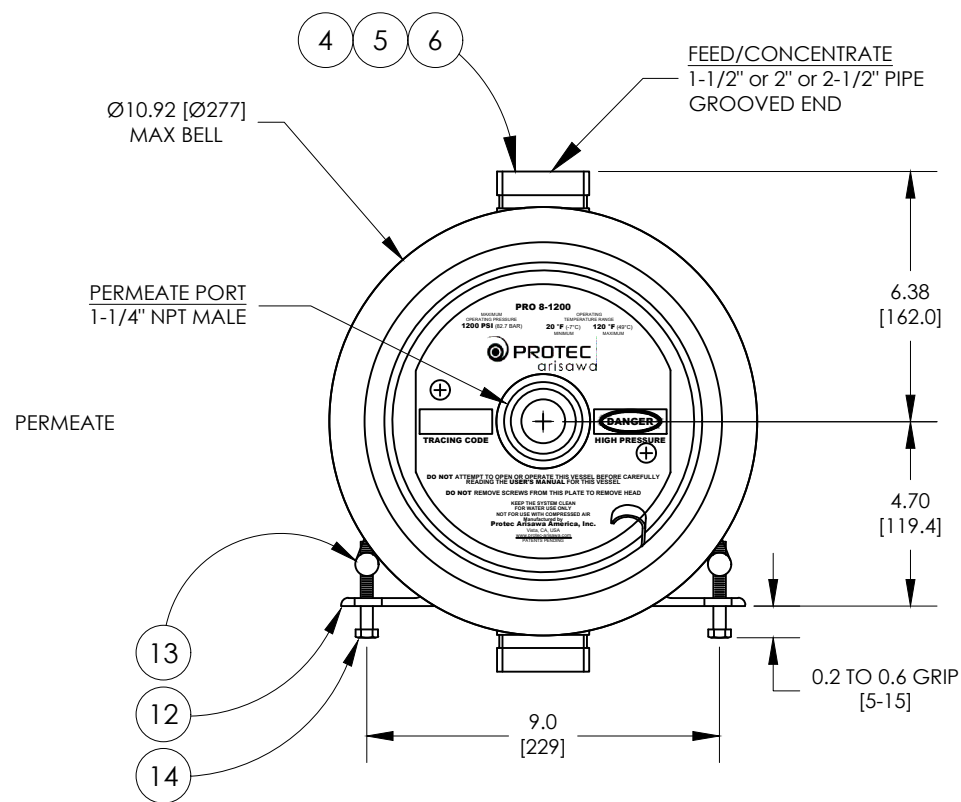
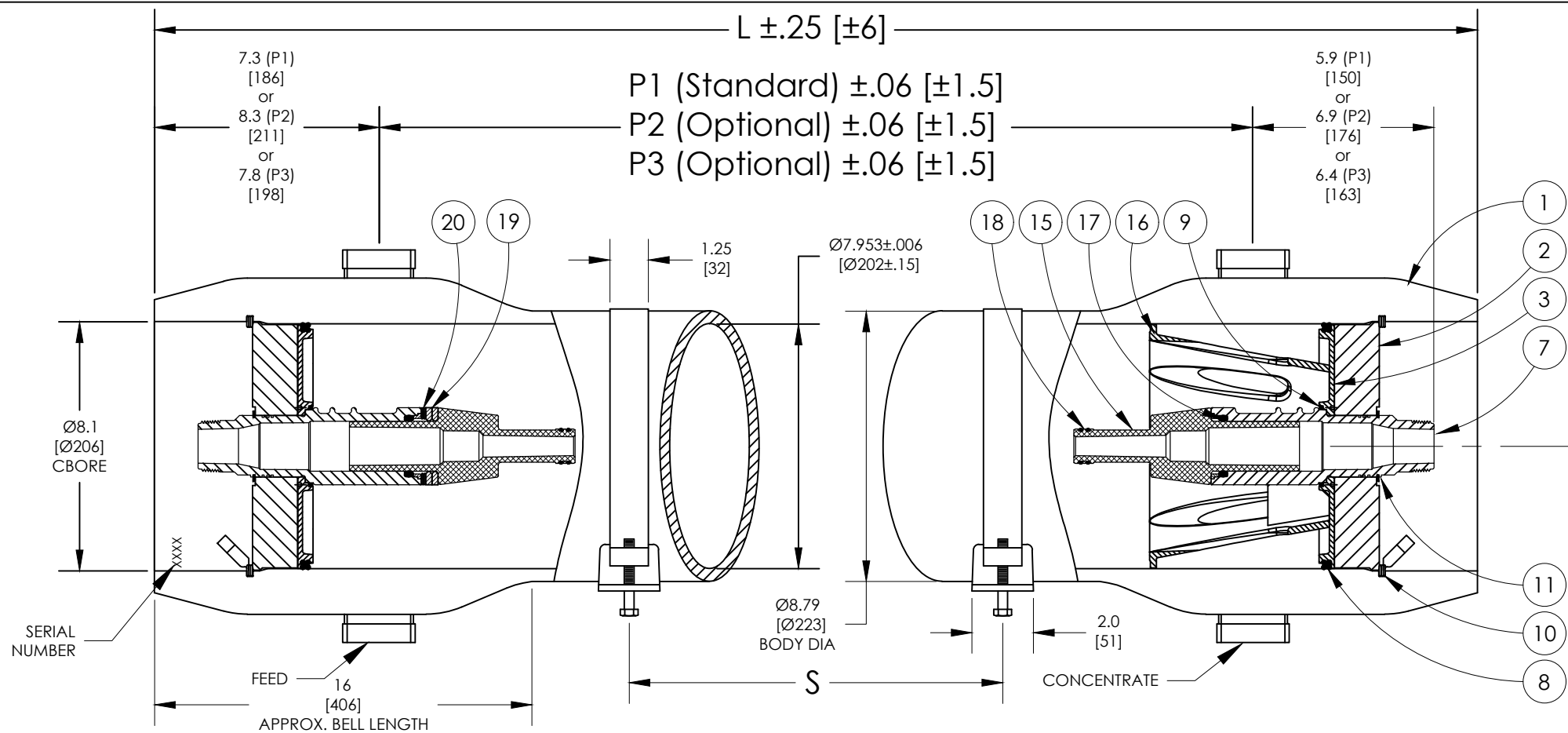
**NOTES:**  
FILAMENT-WOUND CLASS 1 VESSEL  
DESIGN PRESSURE : 600 PSI  
HYDROTEST PRESSURE : 660 PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : BRACKISH WATER  
DIMENSIONS IN INCHES (MM APPROX.)  
FOR 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.  
ASME SECTION X 2025, RP/NB STAMP REQUIRED FOR CRN  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



PRO 8-600-SP

|                          |                       |                   |          |  |
|--------------------------|-----------------------|-------------------|----------|--|
| ENGR<br>KI<br>09/18/2025 | PRO 8-600-SP          |                   |          |  |
| QLTY<br>TS<br>09/18/2025 |                       |                   |          |  |
| MRKT<br>KK<br>09/18/2025 |                       |                   |          |  |
| ECO<br>20156             | REVISED<br>09/26/2025 | DRAWING<br>101004 | REV<br>X |  |





| GENERAL DIMENSIONS |                   |                                |                                |                                |                        |                            |
|--------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|----------------------------|
| Shell Length Code  | L<br>inch<br>(mm) | P1<br>Standard<br>inch<br>[mm] | P2<br>Optional<br>inch<br>[mm] | P3<br>Optional<br>inch<br>[mm] | S<br>Span<br>inch [mm] | Empty Weight<br>lb<br>[Kg] |
| -1                 | 61.6<br>[1565]    | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 139<br>[63]                |
| -2                 | 101.6<br>[2581]   | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 171<br>[78]                |
| -3                 | 141.6<br>[3597]   | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 202<br>[92]                |
| -4                 | 181.6<br>[4613]   | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 234<br>[106]               |
| -5                 | 221.6<br>[5629]   | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 265<br>[120]               |
| -6                 | 261.6<br>[6645]   | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 297<br>[135]               |
| -7                 | 301.6<br>[7763]   | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 328<br>[149]               |
| -8                 | 341.6<br>[8679]   | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 360<br>[163]               |

| BILL OF MATERIAL |     |           |                                       |                                    |  |
|------------------|-----|-----------|---------------------------------------|------------------------------------|--|
| ITEM             | QTY | P/N       | ITEM                                  | ITEM                               |  |
| 1                | 1   | 4080023   | Shell                                 | Filament Wound, Epoxy FRP          |  |
| 2                | 2   | 4081245   | Bearing Plate                         | 6061-T6 Aluminum, SB-221, Anodized |  |
| 3                | 2   | 4080177-3 | Sealing Plate                         | Noryl GFN2                         |  |
| 4                | 2   | 4080234   | Feed / Concentrate Port, 1-1/2", "D"  | SST Super Duplex, SA-790           |  |
|                  |     | 4080422-1 | Feed / Concentrate Port, 2", "E"      |                                    |  |
|                  |     | 4080344   | Feed / Concentrate Port, 2-1/2", "F"  |                                    |  |
| 5                | 4   | 6121187   | Retaining Ring, F/C Port, 1-1/2", "D" | SST 316L, SA-479                   |  |
|                  |     | 6121264   | Retaining Ring, F/C Port, 2", "E"     |                                    |  |
|                  |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F" |                                    |  |
| 6                | 2   | 6184604-N | O-Ring Seal, F/C Port, 1-1/2" "D"     | EPDM                               |  |
|                  |     | 6180332-N | O-Ring Seal, F/C Port, 2" "E"         |                                    |  |
|                  |     | 6180335-N | O-Ring Seal, F/C Port, 2-1/2" "F"     |                                    |  |
| 7                | 2   | 4080308   | Permeate Port                         | Noryl GFN2                         |  |
| 8                | 2   | 6100442MK | Head Seal                             | EPDM                               |  |
| 9                | 2   | 6110229-N | Permeate Port Seal                    | EPDM                               |  |
| 10               | 2   | 4080320   | Retaining Ring w/Finger Pull          | SST 316L, SA-479                   |  |
| 11               | 2   | 6121200   | Retaining Ring, Permeate Port         | SST 316L, SA-479                   |  |
| 12               | 2*  | 4080175   | Support Saddle                        | Thermoplastic Rubber               |  |
| 13               | 2   | 4080137   | Strap Assembly                        | SST 316L                           |  |
| 14               | 4   | 6150001   | Strap Screw                           | SST 18-8                           |  |
| 15               | 2   | A/R       | Adapter                               | Noryl GFN2 / Thermoplastic         |  |
| 16               | 1   | 4080163-3 | Thrust Cone                           | PVC                                |  |
| 17               | 2   | 6180326-N | Adapter Seal                          | EPDM                               |  |
| 18               | A/R | A/R       | PWT Seal                              | EPDM                               |  |
| 19               | 2   | 4080062-4 | Shim, Adapter [5mm]                   | Noryl GFN2                         |  |
| 20               | 2   | 4081441   | Shim, Adapter [2mm]                   | Noryl GFN2                         |  |

\*1 3 each with shell length -4 and longer

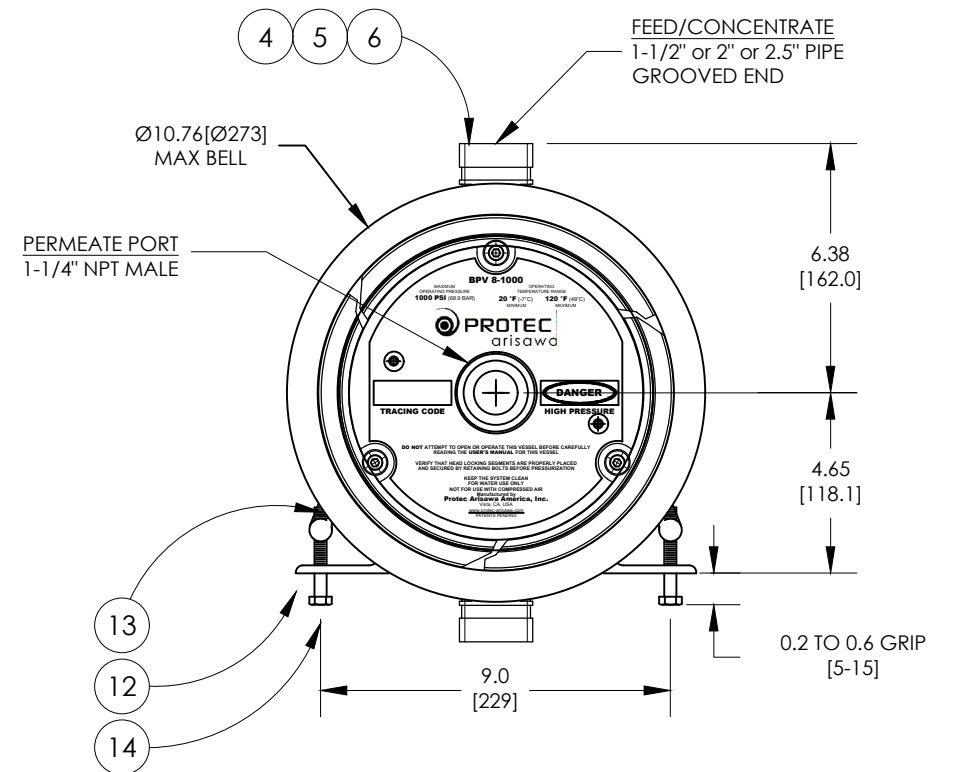
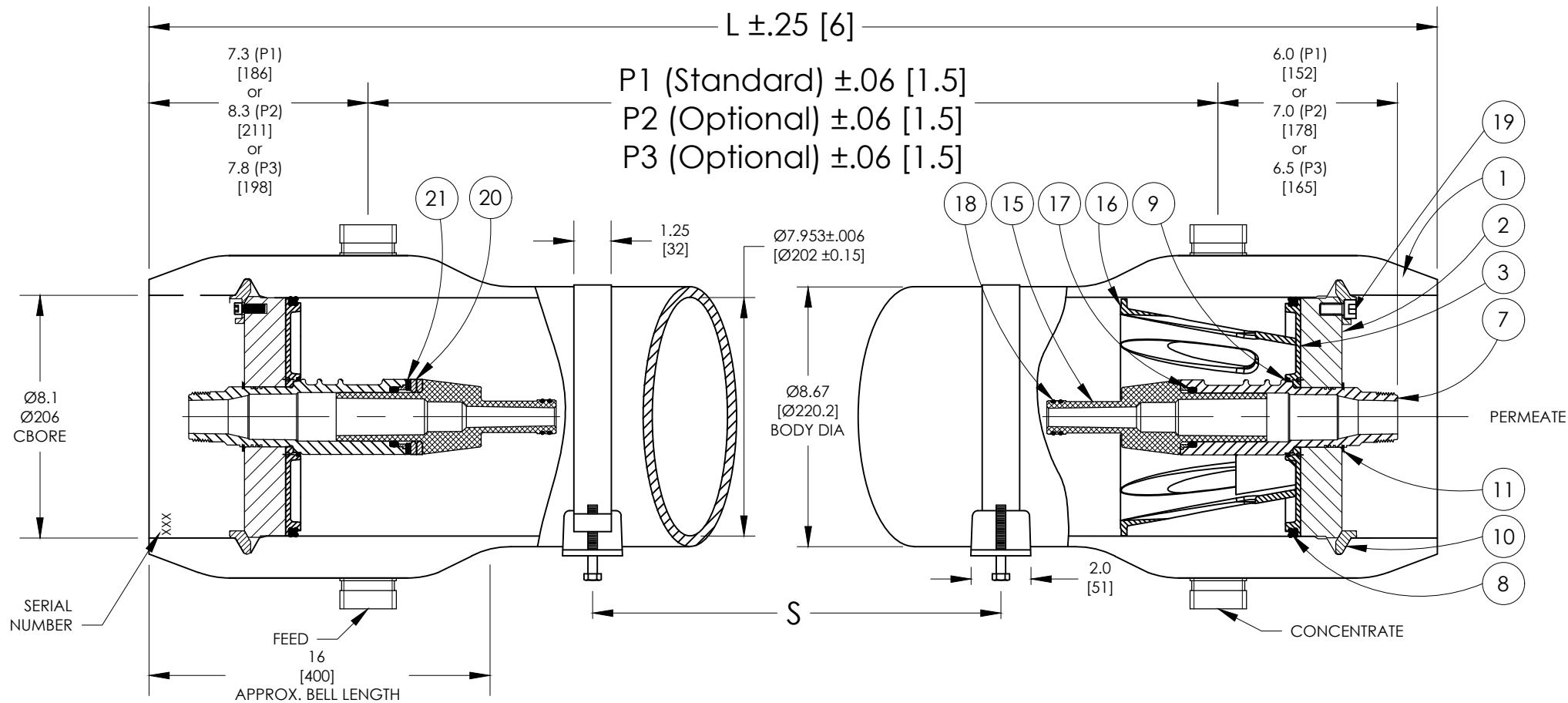
NOTE: STANDARD PARTS ARE SHOWN FOR REFERENCE ONLY  
CHECK ORIGINAL ORDER FOR ORDERING SPARE PARTS

**NOTES:**  
FILAMENT-WOUND CLASS 1 VESSEL  
DESIGN PRESSURE : 1200 PSI  
HYDROTEST PRESSURE : 1320 PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : SEA WATER  
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.  
ASME SECTION X 2025, RP/NB STAMP REQUIRED FOR CRN  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



PRO 8-1200-SP

|                          |               |                       |                   |          |
|--------------------------|---------------|-----------------------|-------------------|----------|
| ENGR<br>KI<br>09/18/2025 | PRO 8-1200-SP |                       |                   |          |
| QLTY<br>TS<br>09/18/2025 |               |                       |                   |          |
| MRKT<br>KK<br>09/18/2025 | ECO<br>20158  | REVISED<br>09/26/2025 | DRAWING<br>101006 | REV<br>Z |



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

**NOTES:**  
FILAMENT-WOUND CLASS 1 VESSEL  
DESIGN PRESSURE : 1000 PSI  
HYDROTEST PRESSURE : 1100 PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : SEA WATER  
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.  
ASME SECTION X 2025, RP/NB STAMP REQUIRED FOR CRN  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



BPV 8-1000-SP

ENGR  
KI  
09/18/2025  
QLTY  
TS  
09/18/2025  
MRKT  
KK  
09/18/2025

ECO  
20158

REVISED  
09/26/2025

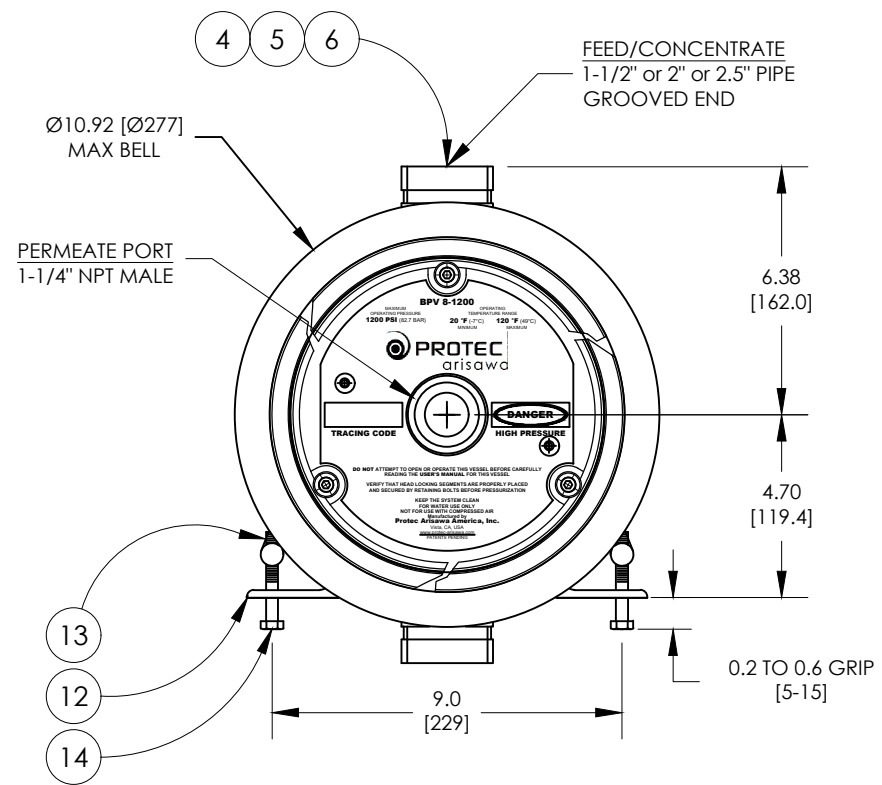
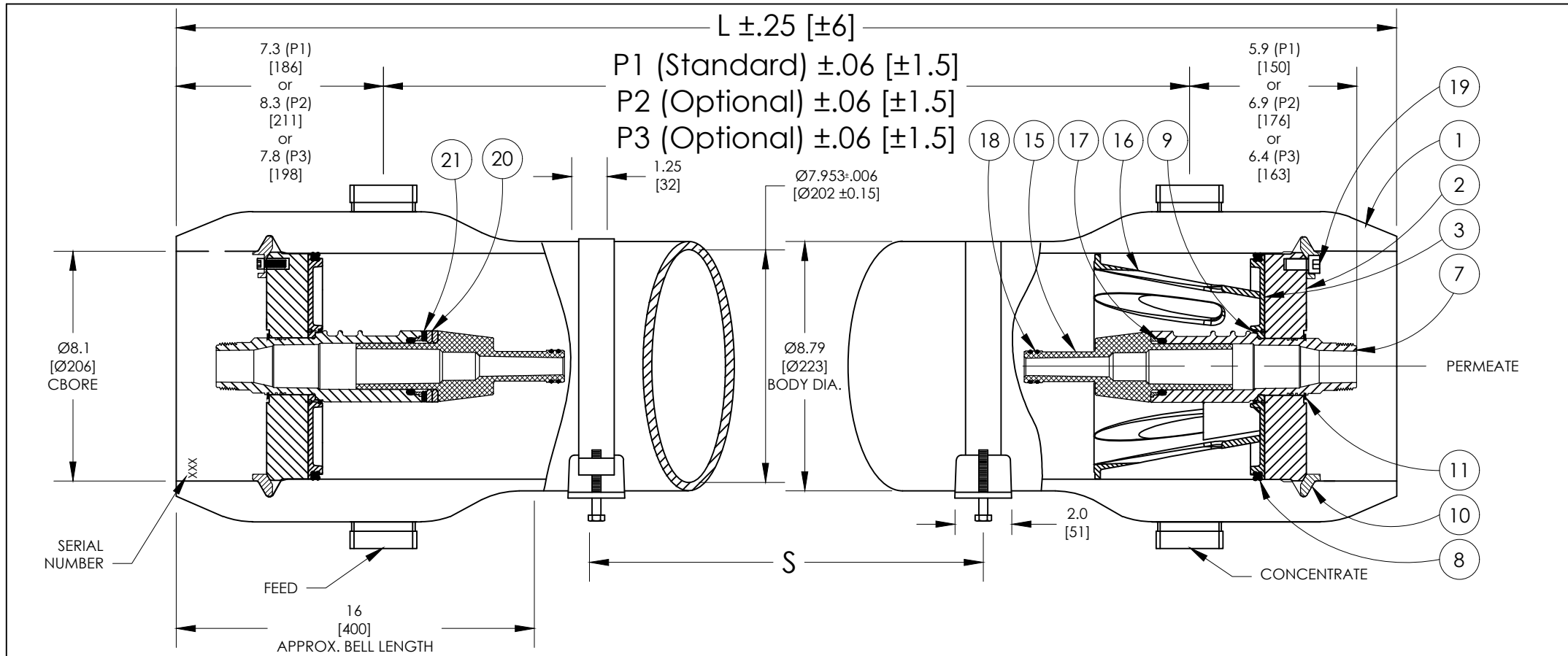
DRAWING  
101043

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H

| GENERAL DIMENSIONS |                   |                                |                                |                                |                        |                            |
|--------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|----------------------------|
| Shell Length Code  | L<br>inch<br>(mm) | P1<br>Standard<br>inch<br>[mm] | P2<br>Optional<br>inch<br>[mm] | P3<br>Optional<br>inch<br>[mm] | S<br>Span<br>inch [mm] | Empty Weight<br>lb<br>[Kg] |
| -1                 | 61.6<br>[1565]    | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 117<br>[53]                |
| -2                 | 101.6<br>[2581]   | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 146<br>[66]                |
| -3                 | 141.6<br>[3597]   | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 174<br>[79]                |
| -4                 | 181.6<br>[4613]   | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 202<br>[92]                |
| -5                 | 221.6<br>[5629]   | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 231<br>[105]               |
| -6                 | 261.6<br>[6645]   | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 259<br>[118]               |
| -7                 | 301.6<br>[7763]   | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 287<br>[130]               |
| -8                 | 341.6<br>[8679]   | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 316<br>[143]               |

| BILL OF MATERIAL |     |           |                                       |                                    |
|------------------|-----|-----------|---------------------------------------|------------------------------------|
| ITEM             | QTY | P/N       | ITEM                                  | ITEM                               |
| 1                | 1   | 4080490   | Shell                                 | Filament Wound, Epoxy FRP          |
| 2                | 2   | 4080481   | Bearing Plate                         | 6061-T6 Aluminum, SB-221, Anodized |
| 3                | 2   | 4080177-3 | Sealing Plate                         | Noryl GFN2                         |
| 4                | 2   | 4080234   | Feed / Concentrate Port, 1-1/2", "D"  | SST Super Duplex, SA-790           |
|                  |     | 4080422-1 | Feed / Concentrate Port, 2", "E"      |                                    |
|                  |     | 4080344   | Feed / Concentrate Port, 2-1/2", "F"  |                                    |
| 5                | 4   | 6121187   | Retaining Ring, F/C Port, 1-1/2", "D" | SST 316L, SA-479                   |
|                  |     | 6121264   | Retaining Ring, F/C Port, 2", "E"     |                                    |
|                  |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F" |                                    |
| 6                | 2   | 6184604-N | O-Ring Seal, F/C Port, 1-1/2" "D"     | EPDM                               |
|                  |     | 6180332-N | O-Ring Seal, F/C Port, 2" "E"         |                                    |
|                  |     | 6180335-N | O-Ring Seal, F/C Port, 2-1/2" "F"     |                                    |
| 7                | 2   | 4080308   | Permeate Port                         | Noryl GFN2                         |
| 8                | 2   | 6100442MK | Head Seal                             | EPDM                               |
| 9                | 2   | 6110229-N | Permeate Port Seal                    | EPDM                               |
| 10               | 6   | 4080474-1 | Retaining Ring w/Finger Pull          | SST CF8M, SA-351                   |
| 11               | 2   | 6121200   | Retaining Ring, Permeate Port         | SST 316L, SA-479                   |
| 12               | 2*  | 4080175   | Support Saddle                        | Thermoplastic Rubber               |
| 13               | 2   | 4080137   | Strap Assembly                        | SST 316L                           |
| 14               | 4   | 6150001   | Strap Screw                           | SST 18-8                           |
| 15               | 2   | A/R       | Adapter                               | Noryl GFN2 / Thermoplastic         |
| 16               | 1   | 4080163-3 | Thrust Cone                           | PVC                                |
| 17               | 2   | 6180326-N | Adapter Seal                          | EPDM                               |
| 18               | A/R | A/R       | PWT Seal                              | EPDM                               |
| 19               | 6   | 6150048   | Head Screw                            | SST 18-8                           |
| 20               | 2   | 4080062-4 | Shim, Adapter [5mm]                   | Noryl GFN2                         |
| 21               | 2   | 4081441   | Shim, Adapter [2mm]                   | Noryl GFN2                         |

\*1 3 each with shell length -4 and longer



| GENERAL DIMENSIONS |                   |                                |                                |                                |                        |                            |
|--------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|----------------------------|
| Shell Length Code  | L<br>inch<br>(mm) | P1<br>Standard<br>inch<br>[mm] | P2<br>Optional<br>inch<br>[mm] | P3<br>Optional<br>inch<br>[mm] | S<br>Span<br>inch [mm] | Empty Weight<br>lb<br>[Kg] |
| -1                 | 61.6<br>[1565]    | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 133<br>[60]                |
| -2                 | 101.6<br>[2581]   | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 164<br>[75]                |
| -3                 | 141.6<br>[3597]   | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 195<br>[89]                |
| -4                 | 181.6<br>[4613]   | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 226<br>[103]               |
| -5                 | 221.6<br>[5629]   | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 257<br>[117]               |
| -6                 | 261.6<br>[6645]   | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 288<br>[131]               |
| -7                 | 301.6<br>[7763]   | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 319<br>[145]               |
| -8                 | 341.6<br>[8679]   | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 350<br>[159]               |

| BILL OF MATERIAL |     |           |                                       |                                    |  |
|------------------|-----|-----------|---------------------------------------|------------------------------------|--|
| ITEM             | QTY | P/N       | ITEM                                  | ITEM                               |  |
| 1                | 1   | 4080450   | Shell                                 | Filament Wound, Epoxy FRP          |  |
| 2                | 2   | 4080725   | Bearing Plate                         | 6061-T6 Aluminum, SB-221, Anodized |  |
| 3                | 2   | 4080177-3 | Sealing Plate                         | Noryl GFN2                         |  |
| 4                | 2   | 4080234   | Feed / Concentrate Port, 1-1/2", "D"  | SST Super Duplex, SA-790           |  |
|                  |     | 4080422-1 | Feed / Concentrate Port, 2", "E"      |                                    |  |
|                  |     | 4080344   | Feed / Concentrate Port, 2-1/2", "F"  |                                    |  |
| 5                | 4   | 6121187   | Retaining Ring, F/C Port, 1-1/2", "D" | SST 316L, SA-479                   |  |
|                  |     | 6121264   | Retaining Ring, F/C Port, 2", "E"     |                                    |  |
|                  |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F" |                                    |  |
| 6                | 2   | 6184604-N | O-Ring Seal, F/C Port, 1-1/2" "D"     | EPDM                               |  |
|                  |     | 6180332-N | O-Ring Seal, F/C Port, 2" "E"         |                                    |  |
|                  |     | 6180335-N | O-Ring Seal, F/C Port, 2-1/2" "F"     |                                    |  |
| 7                | 2   | 4080308   | Permeate Port                         | Noryl GFN2                         |  |
| 8                | 2   | 6100442MK | Head Seal                             | EPDM                               |  |
| 9                | 2   | 6110229-N | Permeate Port Seal                    | EPDM                               |  |
| 10               | 6   | 4080474-1 | Retaining Ring w/Finger Pull          | SST CF8M, SA-351                   |  |
| 11               | 2   | 6121200   | Retaining Ring, Permeate Port         | SST 316L, SA-479                   |  |
| 12               | 2*  | 4080175   | Support Saddle                        | Thermoplastic Rubber               |  |
| 13               | 2   | 4080137   | Strap Assembly                        | SST 316L                           |  |
| 14               | 4   | 6150001   | Strap Screw                           | SST 18-8                           |  |
| 15               | 2   | A/R       | Adapter                               | Noryl GFN2 / Thermoplastic         |  |
| 16               | 1   | 4080163-3 | Thrust Cone                           | PVC                                |  |
| 17               | 2   | 6180326-N | Adapter Seal                          | EPDM                               |  |
| 18               | A/R | A/R       | PWT Seal                              | EPDM                               |  |
| 19               | 6   | 6150048   | Head Screw                            | SST 18-8                           |  |
| 20               | 2   | 4080062-4 | Shim, Adapter [5mm]                   | Noryl GFN2                         |  |
| 21               | 2   | 4081441   | Shim, Adapter [2mm]                   | Noryl GFN2                         |  |

\*1 3 each with shell length -4 and longer

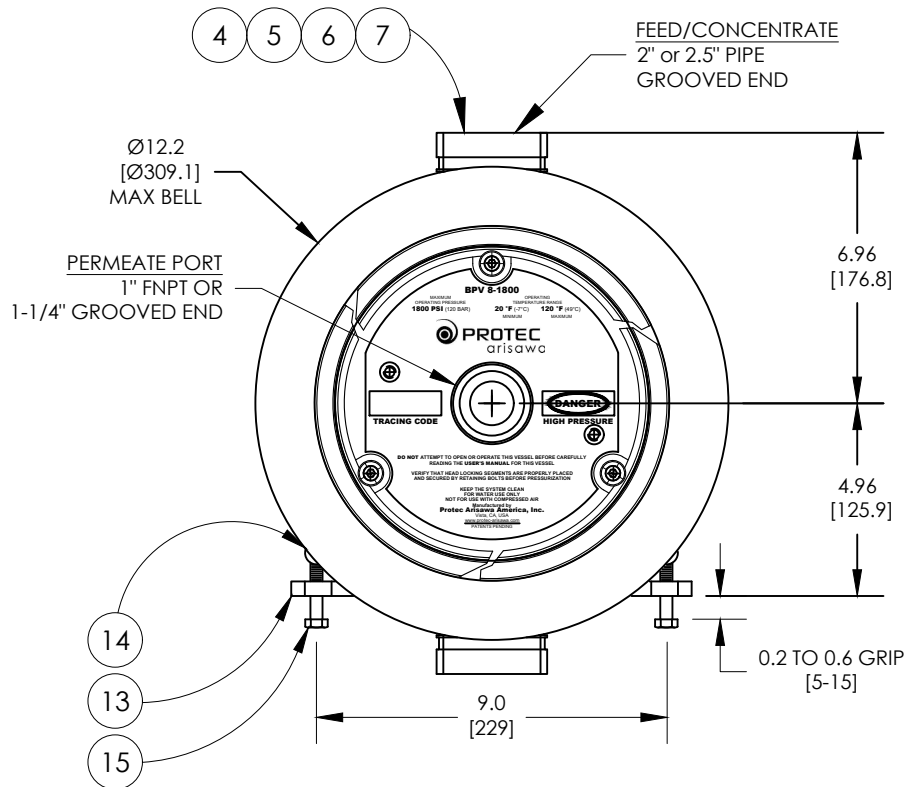
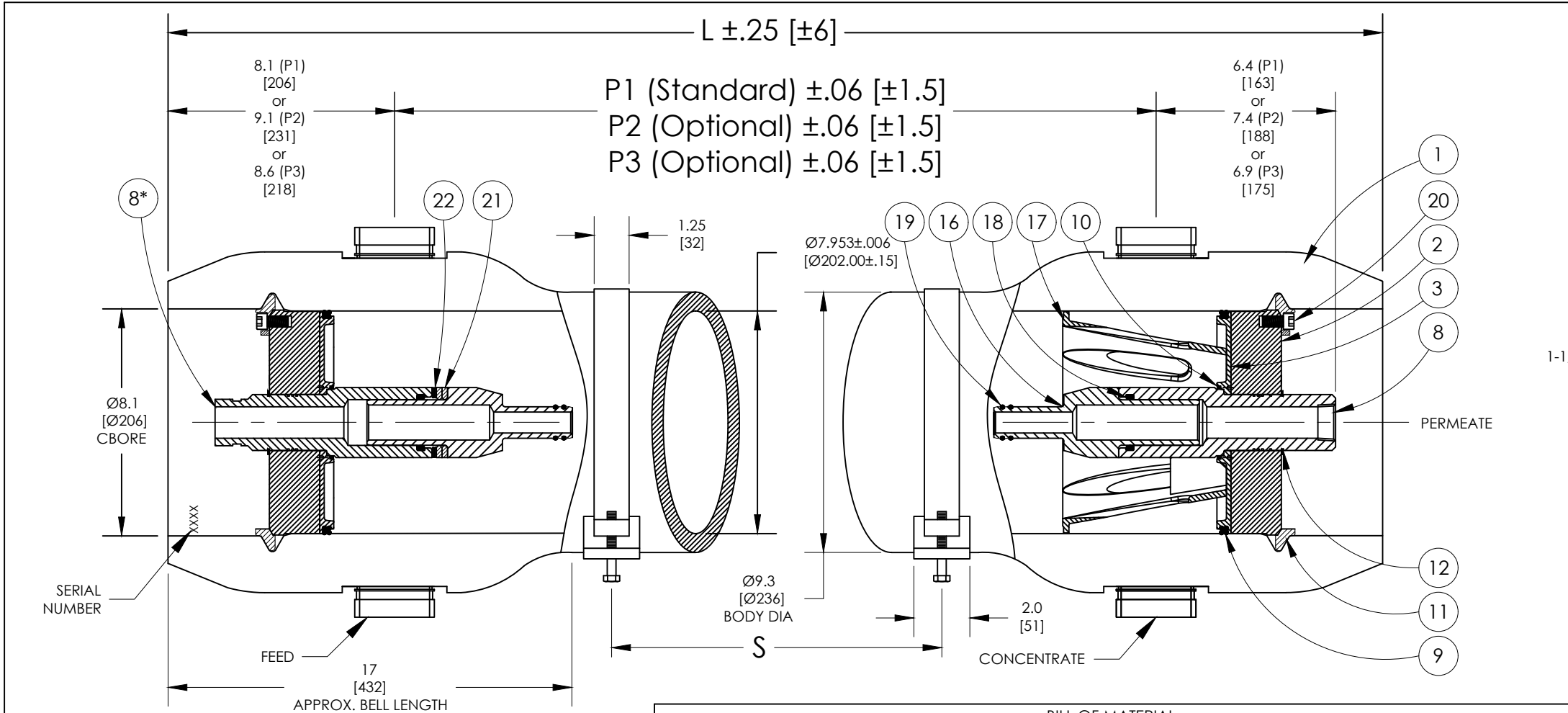
NOTE: STANDARD PARTS ARE SHOWN FOR REFERENCE ONLY  
CHECK ORIGINAL ORDER FOR ORDERING SPARE PARTS

**NOTES:**  
FILAMENT-WOUND CLASS 1 VESSEL  
DESIGN PRESSURE : 1200 PSI  
HYDROTEST PRESSURE : 1320 PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : SEA WATER  
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.  
ASME SECTION X 2025, RP/NB STAMP REQUIRED FOR CRN  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



# BPV 8-1200-SP

|                          |              |                       |                   |          |
|--------------------------|--------------|-----------------------|-------------------|----------|
| ENGR<br>KI<br>09/18/2025 |              |                       |                   |          |
| QLTY<br>TS<br>09/18/2025 |              |                       |                   |          |
| MRKT<br>KK<br>09/18/2025 | ECO<br>20158 | REVISED<br>09/26/2025 | DRAWING<br>101042 | REV<br>G |



| GENERAL DIMENSIONS |                   |                                |                                |                                |                        |                            |
|--------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|----------------------------|
| Shell Length Code  | L<br>inch<br>(mm) | P1<br>Standard<br>inch<br>[mm] | P2<br>Optional<br>inch<br>[mm] | P3<br>Optional<br>inch<br>[mm] | S<br>Span<br>inch [mm] | Empty Weight<br>lb<br>[Kg] |
| -1                 | 63.2<br>[1605]    | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 208<br>[94]                |
| -2                 | 103.2<br>[2621]   | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 264<br>[120]               |
| -3                 | 143.2<br>[3637]   | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 319<br>[145]               |
| -4                 | 183.2<br>[4653]   | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 374<br>[170]               |
| -5                 | 223.2<br>[5669]   | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 430<br>[195]               |
| -6                 | 263.2<br>[6685]   | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 485<br>[220]               |
| -7                 | 303.2<br>[7701]   | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 540<br>[245]               |
| -8                 | 343.2<br>[8717]   | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 596<br>[270]               |

| BILL OF MATERIAL |     |           |                                                     |                                    |  |
|------------------|-----|-----------|-----------------------------------------------------|------------------------------------|--|
| ITEM             | QTY | P/N       | ITEM                                                | ITEM                               |  |
| 1                | 1   | 4081253   | Shell                                               | Filament Wound, Epoxy FRP          |  |
| 2                | 2   | 4081111   | Bearing Plate                                       | 6061-T6 Aluminum, SB-221, Anodized |  |
| 3                | 2   | 4080177-3 | Sealing Plate                                       | Noryl GFN2                         |  |
| 4                | 2   | 4081375-2 | Feed / Concentrate Port, 2", "E"                    | SST Super Duplex, SA-790           |  |
|                  |     | 4081249-2 | Feed / Concentrate Port, 2-1/2", "F"                |                                    |  |
| 5                | 2   | 6121264   | Retaining Ring, F/C Port, 2", "E", Outer            | SST 316L, SA-479                   |  |
|                  |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F", Outer        | SST 316L, SA-312                   |  |
| 6                | 2   | 4081376-1 | Segmental Flange Ring, F/C Port, 2", "E" Inner,     |                                    |  |
|                  |     | 4081368-1 | Segmental Flange Ring, F/C Port, 2-1/2", "F", Inner | EPDM                               |  |
| 7                | 2   | 6180332-N | O-Ring Seal, F/C Port, 2" "E"                       |                                    |  |
|                  |     | 6180335-N | O-Ring Seal, F/C Port, 2-1/2" "F"                   | SST Super Duplex, SA-790           |  |
| 8                | 1   | 4081259-5 | Permeate Port, 1" FNPT                              |                                    |  |
| 8*               | 1   | 4081258-6 | Permeate Port, 1-1/4" Grooved End                   | SST Super Duplex, SA-790           |  |
| 9                | 2   | 6100442MK | Head Seal                                           | EPDM                               |  |
| 10               | 2   | 6110229-N | Permeate Port Seal                                  | EPDM                               |  |
| 11               | 6   | 4080474-1 | Retaining Ring w/Finger Pull                        | SST CF8M, SA-351                   |  |
| 12               | 2   | 6121200   | Retaining Ring, Permeate Port                       | SST 316L, SA-479                   |  |
| 13               | 2*  | 4080175   | Support Saddle                                      | Thermoplastic Rubber               |  |
| 14               | 2   | 4080137   | Strap Assembly                                      | SST 316L                           |  |
| 15               | 4   | 6150001   | Strap Screw                                         | SST 18-8                           |  |
| 16               | 2   | 5080015-5 | Adapter, 1.125" PWT x 0.75" BORE                    | SST Super Duplex, SA-790           |  |
| 17               | 1   | 4080163-3 | Thrust Cone                                         | PVC                                |  |
| 18               | 2   | 6180326-N | Adapter Seal                                        | EPDM                               |  |
| 19               | 4   | 6180119-N | PWT Seal                                            | EPDM                               |  |
| 20               | 6   | 6150048   | Head Screw                                          | SST 18-8                           |  |
| 21               | 2   | 4080062-4 | Shim, Adapter [5mm]                                 | Noryl GFN2                         |  |
| 22               | 2   | 4081441   | Shim, Adapter [2mm]                                 | Noryl GFN2                         |  |

\*1 3 each with shell length -4 and longer

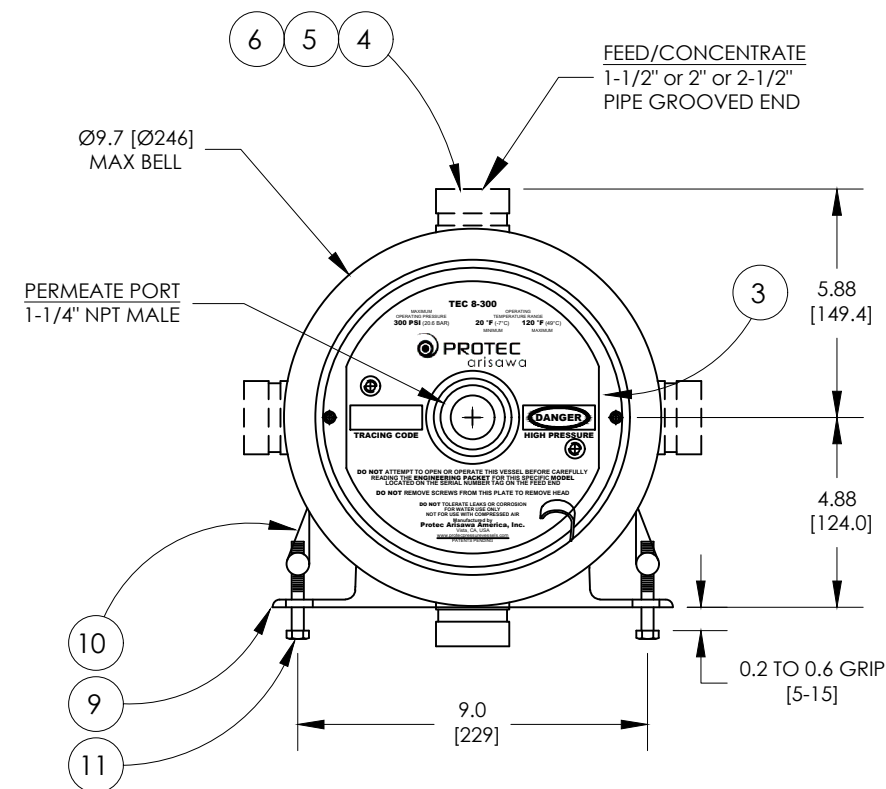
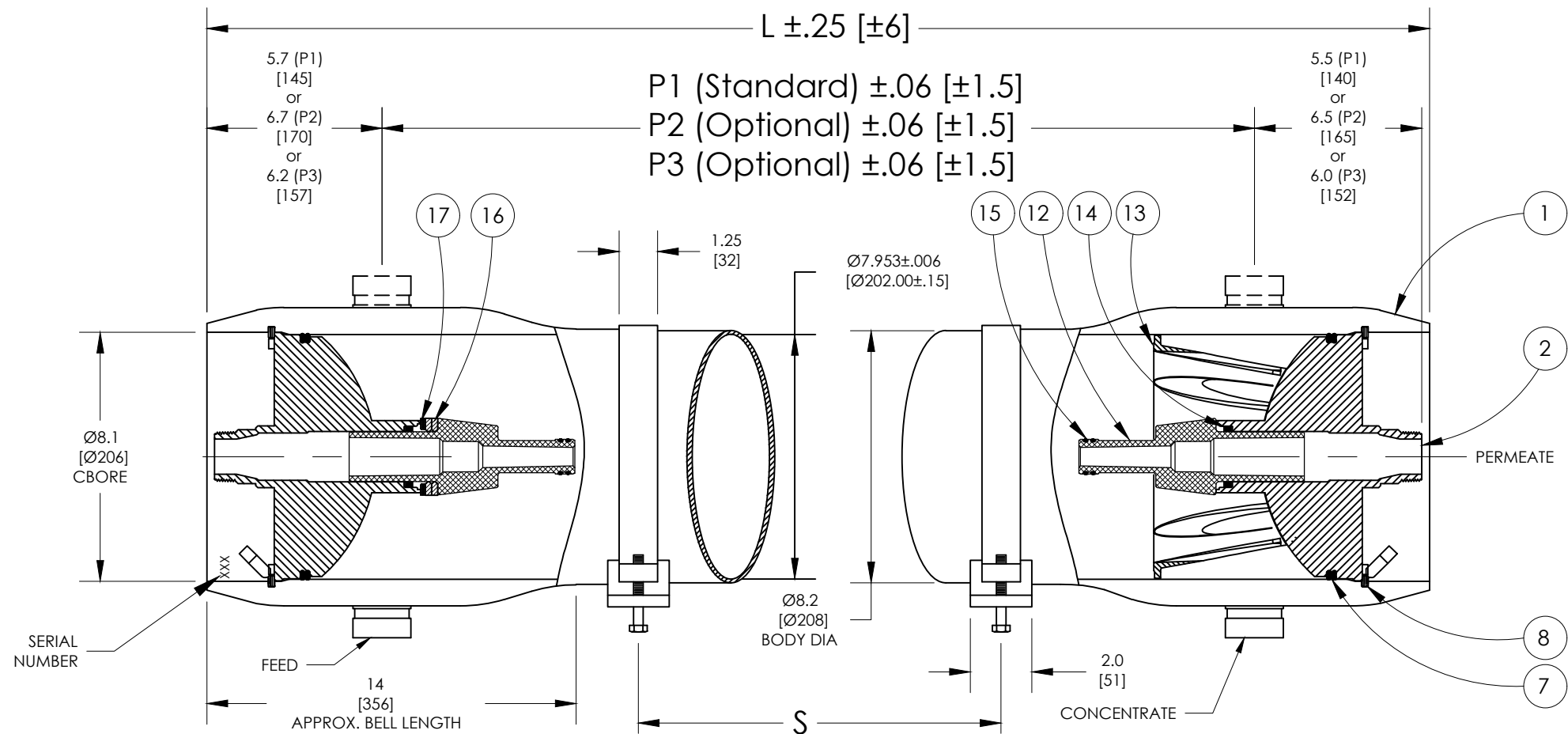
NOTE: STANDARD PARTS ARE SHOWN FOR REFERENCE ONLY  
CHECK ORIGINAL ORDER FOR ORDERING SPARE PARTS

**NOTES:**  
FILAMENT-WOUND CLASS 1 VESSEL  
DESIGN PRESSURE : 1800 PSI  
HYDROTEST PRESSURE : 1980 PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : SEA WATER  
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.  
ASME SECTION X 2025, RP/NB STAMP REQUIRED FOR CRN  
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



BPV 8-1800-SP

|                          |               |                       |                   |          |
|--------------------------|---------------|-----------------------|-------------------|----------|
| ENGR<br>KI<br>09/18/2025 | BPV 8-1800-SP |                       |                   |          |
| QLTY<br>TS<br>09/18/2025 |               |                       |                   |          |
| MRKT<br>KK<br>09/18/2025 | ECO<br>20161  | REVISED<br>09/26/2025 | DRAWING<br>101066 | REV<br>B |



| GENERAL DIMENSIONS |                    |                                |                                |                                |                        |                         |
|--------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|-------------------------|
| Shell Length Code  | L<br>inch<br>(mm)  | P1<br>Standard<br>inch<br>[mm] | P2<br>Optional<br>inch<br>[mm] | P3<br>Optional<br>inch<br>[mm] | S<br>Span<br>inch [mm] | Empty Weight<br>lb [Kg] |
| -1                 | 58.4<br>[1483.36]  | 47<br>[1193.80]                | 45<br>[1143.00]                | 46<br>[1168.40]                | 1 @ 28<br>[711.20]     | 49<br>[22]              |
| -2                 | 98.4<br>[2499.36]  | 87<br>[2209.80]                | 85<br>[2159.00]                | 86<br>[2184.40]                | 1 @ 56<br>[1422.40]    | 59<br>[27]              |
| -3                 | 138.4<br>[3515.36] | 127<br>[3225.80]               | 125<br>[3175.00]               | 126<br>[3200.40]               | 1 @ 80<br>[2032.00]    | 69<br>[31]              |
| -4                 | 178.4<br>[4531.36] | 167<br>[4241.80]               | 165<br>[4191.00]               | 166<br>[4216.40]               | 2 @ 64<br>[1625.60]    | 79<br>[36]              |
| -5                 | 218.4<br>[5547.36] | 207<br>[5257.80]               | 205<br>[5207.00]               | 206<br>[5232.40]               | 2 @ 78<br>[1981.20]    | 89<br>[40]              |
| -6                 | 258.4<br>[6563.36] | 247<br>[6273.80]               | 245<br>[6223.00]               | 246<br>[6248.40]               | 2 @ 92<br>[2336.80]    | 99<br>[45]              |
| -7                 | 298.4<br>[7579.36] | 287<br>[7289.80]               | 285<br>[7239.00]               | 286<br>[7264.40]               | 2 @ 106<br>[2692.40]   | 109<br>[49]             |
| -8                 | 338.4<br>[8595.36] | 327<br>[8305.80]               | 325<br>[8255.00]               | 326<br>[8280.40]               | 2 @ 120<br>[3048.00]   | 119<br>[54]             |

| BILL OF MATERIAL |     |           |                                       |                            |  |
|------------------|-----|-----------|---------------------------------------|----------------------------|--|
| ITEM             | QTY | P/N       | ITEM                                  | ITEM                       |  |
| 1                | 1   | 4080019   | Shell                                 | Filament Wound, Epoxy FRP  |  |
| 2                | 2   | 4081057   | Head, 1-1/4" MNPT                     | Noryl GFN2                 |  |
| 3                | 2   | 4081057CP | Cover Plate                           | ABS Thermoplastic          |  |
| 4                | 4   | 4080250   | Feed / Concentrate Port, 1-1/2", "D"  | SST 316L, SA-312           |  |
|                  |     | 4080253-1 | Feed / Concentrate Port, 2", "E"      |                            |  |
|                  |     | 4081080-1 | Feed / Concentrate Port, 2-1/2", "F"  |                            |  |
| 5                | 4   | 6121187   | Retaining Ring, F/C Port, 1-1/2", "E" | SST 316L, SA-479           |  |
|                  |     | 6121231   | Retaining Ring, F/C Port, 2", "D"     |                            |  |
|                  |     | 6121275   | Retaining Ring, F/C Port, 2-1/2", "F" |                            |  |
| 6                | 4   | 6184604-N | O-Ring Seal, F/C Port, 1-1/2" "D"     | EPDM                       |  |
|                  |     | 6185704-N | O-Ring Seal, F/C Port, 2" "E"         |                            |  |
|                  |     | 6180335-N | O-Ring Seal, F/C Port, 2-1/2" "F"     |                            |  |
| 7                | 2   | 6100442MK | Head Seal                             | EPDM                       |  |
| 8                | 2   | 4080320   | Retaining Ring w/Finger Pull          | SST 316L, SA-479           |  |
| 9                | 2*  | 4080173   | Support Saddle                        | Thermoplastic Rubber       |  |
| 10               | 2   | 4080137   | Strap Assembly                        | SST 316L                   |  |
| 11               | 4   | 6150001   | Strap Screw                           | SST 18-8                   |  |
| 12               | 2   | A/R       | Adapter                               | Noryl GFN2 / Thermoplastic |  |
| 13               | 1   | 4081079   | Thrust Cone                           | Noryl GFN2                 |  |
| 14               | 2   | 6180326-N | Adapter Seal                          | EPDM                       |  |
| 15               | A/R | A/R       | PWT Seal                              | EPDM                       |  |
| 16               | 2   | 4080062-4 | Shim, Adapter [5mm]                   | Noryl GFN2                 |  |
| 17               | 2   | 4081441   | Shim, Adapter [2mm]                   | Noryl GFN2                 |  |

\*1 3 each with shell length -4 and longer

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

**NOTES:**  
VESSEL SPECIFICATION AS NON ASME  
DESIGN PRESSURE : 300 PSI  
HYDROTEST PRESSURE : 330PSI  
MAX. DESIGN TEMPERATURE : 120 °F  
MIN. DESIGN TEMPERATURE : 20 °F  
IMPACT TESTING : EXEMPT  
CORROSION ALLOWANCE : NONE  
FLUID SERVICE : BRACKISH WATER  
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  
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



TEC 8-300-SP

|                          |              |                       |                   |          |
|--------------------------|--------------|-----------------------|-------------------|----------|
| ENGR<br>KI<br>09/24/2025 |              |                       |                   |          |
| QLTY<br>TS<br>09/24/2025 |              |                       |                   |          |
| MRKT<br>KK<br>09/24/2025 | ECO<br>20162 | REVISED<br>09/26/2025 | DRAWING<br>101061 | REV<br>E |