RATING:

**DESIGN PRESSURE**..........................1000 PSIG at 150°F (6.9 MPa at 66°C)

**MIN. OPERATING TEMP.**......................-20°F (-7°C)

**FACTORY TEST PRESSURE**............ CE / ASME

1500 PSIG / 1100 PSIG (10.34 MPa / 7.58 MPa)

**QUALIFICATION PRESSURE**..............6000 PSI (41.37 MPa)

**INTENDED USE:**

The CodeLine 80S100 Fiberglass RO Pressure Vessel is designed for continuous, long term use as housing for reverse osmosis membrane elements to desalt typical brackish waters at pressures up to 1000 psi. Any make of eight-inch nominal diameter spiral-wound element is easily accommodated; the appropriate interfacing hardware for the element specified is furnished with the vessel.

The CodeLine 80S100 is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) Code. At small additional cost vessels can be inspected during construction by an ASME Authorized Inspector and ASME Code stamped.

The CodeLine 80S100 must be installed, operated and maintained in accordance with the listed precautions and good industrial practice to assure safe operation over a long service life.

**PERMEATE PORT SELECTION**

**Serial Number End**

Size of the Permeate Port

- **1”**
- **1.25”**
- **1.5”**

Type of Connection

- **FNPT**
- **MNPT**
- **BSPTM**
- **BSPTF**
- **IPS GROOVED**
- **SANITARY**

Material of Construction

- **PET/Noryl**
- **SS316L**
- **Zeron 100**

**Non Serial Number End**

Size of the Permeate Port

- **1”**
- **1.25”**
- **1.5”**

Type of Connection

- **FNPT**
- **MNPT**
- **BSPTM**
- **BSPTF**
- **IPS GROOVED**
- **SANITARY**

Material of Construction

- **PET/Noryl**
- **SS316L**
- **Zeron 100**

Note:

- Standard offering is 1.0” FNPT in PET/Noryl.
- 1.25” & 1.5” BSPTF, 1.25” & 1.5” FNPT and 1.25” SANITARY connections cannot be offered
- Sanitary permeate port cannot be offered in PET/Noryl

**STRAP ASSEMBLY**

- **Standard SS304**
- **Optional SS316**
- **Optional SS316L**

**FEED/CONCENTRATE PORT SELECTION**

Material of Construction

- **STD - Super Duplex SS (CD3MWcUn)**
- **Optional - CE3MN**

**Configuration**

- **Standard – CD3MWcUn 15DS**
- **Optional – Multi port: (Refer SPEC.SHEET/PM/1.5”-3” for Multi ports selection).**

- **1.5”**
- **2”**
- **2.5”**

Port not available in 90° configurations.

**BEARING PLATE MATERIAL**

- **Standard – 6061 T6 Aluminum**
- **Optional – Stainless Steel 316L**

**ORDERING:**

Using the chart below, please check the features you require

**VESSLE LENGTH CODE – please check one**

- **MODEL 80S100**
- **Model**

**MEMBRANE BRAND AND MODEL**

- **Please supply adapters for the following membrane brand and specific model Brand**, **Model**

**CERTIFICATION REQUIRED**

- **ASME Stamped and National Board Registered.**
- **CE Marked Standard.**
- **Certified by Pentair water.**
- **In compliance with the ASME Sec X but not Code Stamped.**
- **Hydro testing at 1.1 times the design pressure**
- **Hydro testing at 1.5 times the design pressure**

**Note:** Please refer to 99329 for sanitary details and refer page-3 for optional Part numbers.
**PERMEATE PORT PART NUMBERS & PERMPORT TO F/C PORT OFFSET DISTANCE**

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<th>MATERIAL</th>
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<th>DIM &quot;A&quot;</th>
<th>MNPT PART NUMBER</th>
<th>DIM &quot;A&quot;</th>
<th>BSPTF PART NUMBER</th>
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<th>BSPTM PART NUMBER</th>
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**NOTES**

- DIMENSION IN INCHES (MM APPROX.)
- **GRADE CE3MN AS PER ASME SPEC SA-995 (UNS-J93404)
- ***GRADE CD3MWCuN AS PER ASME SPEC SA-995 (J 93380)
- # GRADE ZERON 100 AS PER ASTM-479

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