

RATING:

t 120°F
t 49°C)
20°F
(-7°C)
00 PSIG
.2 MPa)
00 DGI

QUALIFICATION PRESSURE......3600 PSI (24.8 MPa)

INTENDED USE:

The CodeLine 80S60 Non Coded 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 600 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 Shell of CodeLine 80S60 Non Coded is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME) Code.

The CodeLine 80S60 Non Coded 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.

The high performance Filament wound FRP shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell. This side-ported vessel requires special precautions in mounting and connection to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fiberglass shell. The end closure, incorporating close fitting, interlocking metal components, must be kept dry and free of corrosion; deterioration can lead to catastrophic mechanical failure of the head.

Pentair Water will assist the purchaser in determining the suitability of this standard vessel for their specific operating conditions. The final determination however, including evaluation of the standard material of construction for compatibility with the specific corrosive environment, shall be the responsibility of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

Specifications are subject to change without notice.

PRECAUTIONS:

- DO...read, understand and follow all instructions; failure to take every precaution will void warranty and may result in vessel failure
- DO...mount the shell on horizontal members at span "S" using compliant vessel supports furnished; Shim saddles if required. Tighten hold down straps just snug
- DO...align and center side ports with the manifold header. Correct, causes of misalignment in a row of vessels connected to the same header
- DO...use flexible type grooved-end pipe couplings, Victaulic® Style 77 or equal, at side ports; allow full, 0.125 inch gap between port and piping, and position piping to maximize flexibility of connection.
- DO...provide flexibility in, and support for piping manifolds so that vessel can grow in length under pressure without undue restraint; provide additional flexible joints in large pipes leading to manifold header.
- DO...provide overpressure protection for vessel set at not more than 105% of design pressure
- DO...inspect end closures regularly; replace components that have deteriorated and correct causes of corrosion
- DO... Lubricate seals sparingly, using nonpetroleum Based lubricants, i.e. Parker Super O-lube®, Glycerin or suitable silicone based lubricants.
- DO NOT...work on any component until first verifying that pressure is relieved from vessel
- DO NOT...make rigid piping connections to ports or clamp vessel in any way that resists growth of fiberglass shell under pressure; *** Δ DIA = 0.015 in. (0.4mm) and
 - *** Δ L = 0.2 in. (6mm) for a length code –8 vessel
- DO NOT... hang piping manifolds from ports or use vessel in any way to support other components
- DO NOT...tighten Permeate Port connection more than one turn past hand tight
- DO NOT... operate vessel without connecting both Permeate Ports internally to complete set of elements or otherwise plug ports internally so that external piping connection is not subjected to feed pressure
- DO NOT...install Spacer on downstream end of vessel
- DO NOT...operate vessel without Thrust Cone installed downstream
- DO NOT...pressurize vessel until double-checking to verify that the Locking Ring is in place and fully seated.
- DO NOT...operate vessel at pressure and temperature in excess of its rating.
- DO NOT...operate vessel with permeate pressure in excess of 125 psi at 120°F (0.86 MPa at 49°C).
- DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way
- DO NOT...operate outside the pH range 3-10.

ORDERING:

Using the chart below, please check the features you require and fax them with your purchase order to our customer service department for further processing.

For optional materials and / or feature not listed below, please consult the factory for pricing and availability

VESSEL LENGTH CODE - please check one

MODEL 80S60 Non Coded □ -1 □ -2 □ -3 □ -4 □ -5 □ -6 □ -7 □ -8

MEMBRANE BRAND AND MODEL – please check one and fill in information

ч	Please supply adapters for the following membrane brand and specific model		
	BrandModel		
	Membrane brand and model information is not currently available, but will be supplied to Pentair Water		
	on or before the following date//		

CERTIFICATION REQUIRED

- □ CE Marked
- ☐ Standard, Certified by Pentair water.

MATERIAL OPTIONS - please check one

- □ Standard: all materials as per drawing 99174 on the previous page NOTE: The options listed below will increase the vessel price. Call factory for pricing details.
- Option: Customer specified Material of Construction. (Please consult factory as these options will affect pricing and vessel lead time)

FEED/CONCENTRATE PORT CONFIGURATION

- ☐ Standard 1½" IPS pipe, grooved ends, with ports in-line
- ☐ Optional Multi-PortsTM

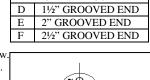
Using the instructions in Order Specification Sheet #99007 Please fill out your feed port configuration in the space below. List port location first, followed by port size for each choice. 2.5" Ports not available in 90° Configuration

Serial number end	
Opposite end	

PERMEATE PORT CONFIGURATION:

- □ Standard. 1" FNPT & 1.5" VICTUALIC.
- ☐ Optional. 1"BSPF/JIS F-Parallel Thread & 1.5"VIC

For complete information on proper use of the vessel Please refer to the 80S Series USER'S GUIDE 94182.



PORT SIZE CODE

