



SECTION THROUGH END CLOSURE

- NOTES
- DIMENSIONS IN INCHES (MM APPROX)
 - NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED
 - PATENT APPLIED FOR

Dwg. Ref.	Qty. Per	Item Number	Description	Materials/Remarks
SHELL				
①	1		Shell	Filament wound epoxy/glass composite. Head locking grooves integrally wound in place. Shell exterior coated with white high gloss polyurethane paint.
END PLUG				
②	2	50478	End Plug	Super-Austenitic SST- 6% Mo
③	2	45313	Plug Seal	Ethylene Propylene - O-Ring
④	2	45296	PWT Seal	Ethylene Propylene - O-Ring
END PLUG INTERLOCK				
⑤	2	50371	Locking Segment	316 SST
⑥	2	45232	Securing Screw	1/4 HSHCS - 18-8 SST
⑦	2	50471	Lockwire	300 Series SST
FOR REFERENCE ONLY				

Shell Length Code	L. L.O.A. IN (MM)	APPROX. ASSEMBLY Weight LB (KG)
A1	44.5 (1130)	8.0 (3.6)
C1	25.5 (647)	5.6 (2.5)



MODEL 25E100
SEAWATER RO MEMBRANE HOUSING

ECN	SHEET	SIZE	NUMBER	REV
8631	1 OF 2	B	502007	B

RATING:

DESIGN PRESSURE..... 1000 PSI at 120°F
 (6.9 MPa at 49°C)
 MIN. OPERATING TEMP..... 20°F
 (-7°C)
 FACTORY TEST PRESSURE..... 1500 PSI
 (10.3 MPa)
 BURST PRESSURE..... 6000 PSI
 (41.4 MPa)

INTENDED USE

The Model 25E100 Seawater RO Pressure Vessel is designed for continuous, long-term use as a housing for reverse osmosis membrane elements to desalt typical seawater at pressures up to 1000 psi.

The Model 25E100 must be installed, operated and maintained in accordance with the precautions listed, and good industrial practice to assure safe operation over a long service life.

The high performance reinforced plastic shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the 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 end plug.

Pentair Water Treatment, 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 materials 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 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... 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 NOT...make rigid piping connections to the vessel head or clamp vessel in any way that restricts growth of fiberglass shell under pressure
- DO NOT...hang piping manifolds from port connectors or use vessel in any way to support other components
- DO NOT...operate vessel at pressures and temperatures in excess of its rating
- DO NOT... operate vessel without first installing a complete set of elements and and interconnecting hardware
- DO NOT...tolerate leaks or allow end closures to be routinely wetted in any way
- DO NOT... pressurize vessel until double checking to verify that the locking segments are in place and secured
- DO NOT...work on any component until first verifying that pressure is relieved from vessel

NOTE

3/16-in. hex key required to open and close vessel.

For complete information on proper use of this vessel, please refer to the 25E100 USER'S GUIDE Bulletin 502008

ORDERING

Using the chart below, please check the features you require and fax them with your purchase order to our customer service department for expedited processing. For optional materials and or feature not listed below, please consult the factory for pricing and availability.

Please note that we require your membrane brand and model number when ordering. If this information is not initially available, you may provide it at a later date by checking the appropriate box below

VESSEL LENGTH CODE — please check one

CODELINE MODEL 25E100 -A1 -C1

EXTERIOR FINISH — please check one

Standard — white high-gloss polyurethane coating.

CERTIFICATION — please check one

Standard — certified by CodeLine, not code stamped.

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

Please supply adapters for the following membrane brand and specific model.

Brand _____ Model _____

Membrane brand and model information is not currently available, but will be supplied to CodeLine on or before the following date. ____/____/____