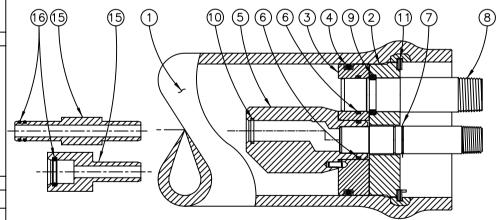


CENTER VESSEL ON 2 OR 3 SUPPORTS AT SPAN(S) "S": 3 SUPPORTS REQUIRED FOR LENGTHS -4 AND OVER



Shell Length Code	L l.o.a. in (mm)	S Span IN (MM)	APPROX. ASSEMBLY Weight LB (KG)
1	56.6	28 X 1	21.0
	(1438)	(711)	(9.5)
2	96.6	56 X 1	31.0
	(2454)	(1422)	(14.0)
3	136.6	80 X 1	41.0
	(3470)	(2032)	(18.6)
4	176.6	64 X 2	51.0
	(4486)	(1626)	(23.1)
5	216.6	78 X 2	62.0
	(5502)	(1981)	(27.8)
6	256.6	92 X 2	71.0
	(6518)	(2337)	(32.2)





REV

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Pentair Water

SECTION THROUGH END CLOSURE

DIMENSIONS IN INCHES (MM APPROX)
 NOT TO BE USED FOR
 CONSTRUCTION UNLESS CERTIFIED

PATENT APPLIED FOR

DRW. MODEL 40E100 AXA APPR. HIGH PRESSURE MEMBRANE HOUSING RM

SHEET SIZE NUMBER ECN DATE 1 OF 2 В 730 518015 11JUL05

RATING:		
DESIGN PRESSURE	1000 PSI at (6.9 MPa a	120°F 149°C)
MIN. OPERATING TEMP	••••••	20°F (-7°C)
FACTORY TEST PRESSURE. (8.9)	ASME 1300PSI 96 MPa)(10.	

BURST PRESSURE...... 6000 PSI (41.4 MPg)

INTENDED USE

The CodeLine Model 40E100 Fiberglass 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. Any make of four—inch nominal diameter spiral—wound element is easily accommodated; the appropriate interfacing hardware for the element specified is furnished with the vessel.

The CodeLine Model 40E100 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 Model 40E100 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 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 materials of construction for compatibility with the specific corrosive environment, shall be the responsibilty of the purchaser.

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... mount shell on horizontal members at central span "S" using compliant vessel supports furnished; tighten hold down straps just snug
- 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 ports or clamp vessel in any way that restricts growth of fiberglass shell under pressure; ▲DIA = 0.02 in. (0.5mm) and ▲L = 0.2 in. (5mm) for a length code -6 vessel
- DO NOT... hang piping manifolds from ports 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 permeate ports internally connected with a complete set of elements and and interconnecting hardware
- DO NOT... operate vessel with permeate pressure in excess of 125 psi at 120°F (0.9 MPa at 49°C)
- DO NOT... overtighten the connection to the permeate port (hand-tighten plus one-quarter turn, check for leaks.)
- 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 Retaining Ring is in place and fully seated.
- DO NOT... work on any component until first verifying that pressure is relieved from vessel
- DO NOT... operate at pH levels below 3 or above 10

For complete information on proper use of this vessel please refer to the 40E Series USER'S GUIDE, Bulletin 526005

CAUTION:

EYE PROTECTION SHOULD BE WORN WHEN REMOVING OR INSTALLING RETAINING RINGS.

KEEP FINGERS CLEAR FROM RETAINING RING WHILE INSTALLING LAST OF TWO TURNS.

RING MAY SNAP INTO POSITION POSSIBLY PINCHING FINGERS.

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 40€100 □ -1 □ -2 □ -3 □ -4 □ -5 □ -6
EXTERIOR FINISH - please check one
☐ Standard — white high—gloss polyurethane coating over sanded surface.
Option — optional colors are available for 50 or more vessels per order. Call factory for pricing details.
CERTIFICATION - please check one
☐ Standard — certified by Pentair Water, not code stamped.
 Option — Certified by ASME Authorized Inspector, Code stamped and registered with National Board. Call factory for pricing details.
☐ Option — CE marked.
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//
MATERIAL AND PORT CONFIGURATIONS OPTIONS - please check one
☐ Standard — all materials and port configurations per drawing 518015 on the opposite page.
□ Option – feed/concentrate port, 3/4" victaulic.