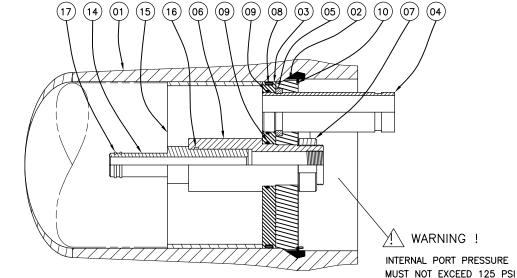


Dwg. Ref.	Qty. Per	Part Number	Part Name	Materials/Remarks	
			SHELL		
00	1		Shell Length	Filament wound epoxy/glass composite— Head locking grooves integrally wound in-place	
			HEAD		j / j
02	2	51051	Bearing Plate	6061-T6 aluminium alloy-hard anodized	<i> </i>
03	2	96003	Sealing Plate	Engineering Thermoplastic	/ / /
6	2	50567	Feed/Conc Port	SS-316L as per ASME SA-312	
80000	2	45090	Port Retainer Set	CF8M Cast SS, Two-piece set	l Y
6	2	50569	Permeate Port	Engineering Thermoplastic	\ /
0	2	45066	Port Nut	Engineering Thermoplastic	\ ./
08	2	96000	Head Seal	Ethylene Propylene - 0-Ring	\ /
09	4	45312	Port Seal	Ethylene Propylene - 0-Ring	
			HEAD INTE	RLOCK	
0	2	47336 Quick	Release Spiral Ring	316 Stainless Steel	
			VESSEL SU	PPORT	
1	*2	52169	Saddle	Engineering Thermoplastic	
10	* 2	45042	Strap Assy	304 Stainless Steel PVC cushion	NOTES
(3)	4	46265	Strap Screw	5/16-18 UNC, 18-8 Stainless Steel	*SHELL EXTERIOR COATED WITH WHITE,
			ELEMENT IN	TERFACE	HIGH GLOSS POLYURETHANE PAINT.
13	2	As Required	Adapter	Engineering Thermoplastic	*DIMENSION IN INCHES (MM APPROX.)
(<u>1</u> 3	1	45069	Thrust Ring	Engineering Thermoplastic	*NOT TO BE USED FOR CONSTRUCTION
16	2	52245	Adapter Seal	Ethylene Propylene - 0-Ring	unless certified
0	4	As Required	PWT Seal	Ethylene Propylene - 0-Ring	*GENERAL TOLERANCES APPLY, FOR DETAILS

* 3 each furnished with length code 4, 5, 6 & 7



SHEII			Empty
Length	L.O.A.	Span	Weight
Code	IN (MM)	IN (MM)	LB (KG)
4	63	30 X 1	32
1	(1600)	(762)	(15)
_	103	70 X 1	47
2	(2616)	(1778)	(21)
3	143	110 X 1	61
3	(3632)	(2794)	(28)
4	183	75 X 2	76
4	(4648)	(1905)	(34)
-	223	95 X 2	90
5	(5664)	(2413)	(41)
•	263	115 X 2	105
6	(6680)	(2921)	(48)
7	303	135 X 2	119
′	(7696)	(3429)	(54)

Pentair Water

Shell

S

Empty

SECTION THROUGH END CLOSURE

CONTACT FACTORY

ITEM (15) DOWNSTREAM ONLY

ENGF	R PGS		MOE	DEL	80E45	
QLTY	SM		МЕМВ	RANE	HOUSING	
DATE	20APR11	SCALE	SHEET	SIZE	NUMBER	REV
ECN	2144	NONE	1 OF 2	В	99112	L

RATING:

INTENDED USE:

The CodeLine Model 80E45 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 450 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 Model 80E45 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 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.

The end closures, incorporating close-fitting, interlocking metal components, must be kept dry and free from corrosion; deterioration can lead to catastrophic mechanical failure of the heads.

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.

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 complaint 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 resists growth of fiberglass shell under pressure; $\Delta DIA = 0.02$ in. (0.5mm) and $\Delta L = 0.2$ 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; branch connection piping may be simply supported between the header and port; maximum weight of branch piping; feed/concentrate 16 lbs (7 kg): permeate 8 lbs (4 kg)
- 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 interconnecting hardware
- DO NOT... operate vessel with permeate pressure in excess of 125 psi at 120°F (0.9 MPa @ 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 completely inside the groove
- 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

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 features not listed below, please consult 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

MODEL 80E4	5 C	l -1		1 -2		-3		-4		-5		l -6		1-7
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MEMBRANE BRAND AND MODEL – please check one and fill in information

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

CERTIFICATION REQUIRED

ASME Stamped and National Board Registered (please consult factory for pricing)
CE Marked
Standard Certified by Pentair water

EXTERIOR FINISH - please check one

	Standard – white high-gloss polyurethane coating.
	Option – optional colors are available for 50 or more vessels per order
Call	factory for pricing details.

MATERIAL OPTIONS

Standard – All materials as per drawing 99112 on the first page.
Customer specified materials: -
(Please consult the factory, as these options will affect pricing and vessel lead-time.)

For complete information on proper use of this vessel please refer to the 80E series USER'S GUIDE Bulletin 523004.