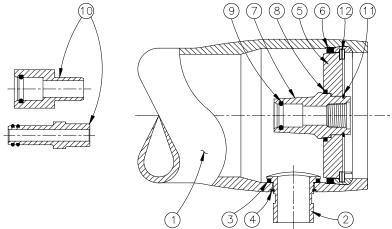


Desa	Oh		PARTS LISTED ARE STANDAR	D OPTIONS
Dwg. Ref.	Qty. Per	* Part Number	Part Name	Materials/Remarks
			SHELL	
1	1		Shell	Filament wound epoxy/glass composite. S.S. head locking grooves integrally wound in place. Shell exterior coated with white high gloss polyurethane paint.
2	2		Feed/Concentrate Port	316 SST
(2)	2	ORDER	F/C Port Seal	Ethylene Propylene - Square Cut
4	2	SECTION	F/C Port Retainer	300 Series SST
			HEAD	
(5)	2	45140	Bearing Plate	Fiber Reinforced Epoxy Laminate
567899	2	45352	Plate Seal	Ethylene Propylene — Square Cut
7	2	50898	Permeate Port	Engineering Thermoplastic
8	2	45335	Permeate Port Seal	Ethylene Propylene - Square Cut
9	4	45296	PWT/Adapter Seal	Ethylene Propylene - 0-Ring
10	2	As Required	Adapter	Engineering Thermoplastic
1	2	45242	Port Retainer	300 Series SST
			HEAD INTERLO	CK
(12)	2	45260	Retaining Ring	316L SST
			VESSEL SUPP	ORT
(13)	* 3	45058	Saddle	Cast Urethane Elastomer
<u>(14)</u>	* 3	47459	Strap	Type 304 SST - PVC cushion
	* 2 E	och furnished w	rith length code 1, 2 & 3.	
			FOR REFERENCE	ONLY

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



SECTION THROUGH END CLOSURE (ENDS ARE IDENTICAL)

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

Shell Length Code	L L.O.A. IN (MM)	P Port to Port IN (MM)	S Span IN (MM)	APPROX. ASSEMBLY Weight LB (KG)
1	47 (1194)	42 (1067)	28 X 1 (711)	13.25 (6.0)
2	87 (2210)	82 (2083)	56 X 1 (1422)	19.25 (8.8)
3	127 (3226)	122 (3099)	80 X 1 (2032)	26.75 (12.2)
4	167 (4242)	162 (4115)	64 X 2 (1626)	34.25 (15.6)
5	207 (5258)	202 (5131)	78 X 2 (1981)	41.75 (19.0)
6	247 (6274)	242 (6147)	92 X 2 (2337)	49.25 (22.4)





Pentair Water

MODEL 40A30

LC	W PRESSU	RE ME	MBRANE HOUSING	
ECN	SHEET	SIZE	NUMBER	REV
978	1 OF 2	A3	518001	Q

RATING:

DESIGN PRESSURE300 PSI at 176°F ** (2.1 MPa at 80°C)
MIN. OPERATING TEMP20°F (-7°C)
FACTORY TEST PRESSURE330 PSI (2.275 MPa)
BURST PRESSURE1800 PSI (12.2 MPa)

INTENDED USE

The Model 40A30 Fiberglass RO/UF Pressure Vessel is designed for continuous, long—term use as a housing for reverse osmosis and ultrafiltration elements in typical industrial water treatment sytems at pressures up to 300 psi. Any make of 4—inch nominal diameter spiral—wound element is easily accommodated. The appropriate interfacing hardware for the element specified is furnished with the vessel.

The Model 40A30 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 a small additional cost, vessels can be inspected during construction by an ASME Authorized Inspector and ASME Code stamped.

The Model 40A30 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. 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 closures, incorporating close-fitting, interlocking components, must be kept dry and free of 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 materials of construction for compatibility with the specific corrosive environment, shall be the responsibil—ty of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

** For Sanitary option (Drg No:- 99129) the operating temperature can be 190° F (88°C)

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... 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 75 or equal, at sideports; allow full .125 inch gap between port and piping, and position piping to maximize flexibility of connection
- DO... provide flexibility in, and support for piping manifold 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 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 restricts growth of fiberglass shell under pressure; \triangle DIA = 0.01 in. (0.25 mm) and \triangle L = .140 in. (3.5 mm) 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... 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... tighten Permeate Port connection more than one turn past hand tight
- DO NOT... operate vessel with permeate pressure in excess of 125 psi at 176°F (0.9 MPa at 80°C)
- 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 Rings are in place.
- DO NOT... install Spacer on downstream end of vessel

NOTE

Spiral Retaining Ring Removal Tool (1MM007-1) recommended to open and close vessel.

For complete information on proper use of this vessel please refer to the 40A Series USER'S GUIDE, Bulletin 518005

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

VF22FF	LENGTH CODE — please check one
MODEL	40A30
EXTERIOR	R FINISH - please check one
	Standard - white high-gloss polyurethane coating over sanded surface.
CERTIFIC	ATION — please check one
	Standard - certified by CodeLine, not code stamped.
	Option — Certified by ASME Authorized Inspector, Code stamped and registered with National Board. Call factory for pricing details.
MEMBRAN	NE 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//
	(7)

number	Opposite	PERMEATE PORT MATERIAL		
nd ¬	end	Standard - NORYL		
		Option — PVC (120°F maximun)		
5		Option - 316 Stainless Steel	1	PORT SIZE CODE
		PERMEATE PORT CONFIGURATION	A	3/4" NPT FEMALE
		Standard - 1/2" NPT Female (Standard per drawing) Option - 1/2" BSP/JIS Female	В	3/4" BSP/JIS FEMALE
_		option 1/2 bar/ola remaie	_	
		FFFD PORT CONFIGURATION	С	1" GROOVED END
		FEED PORT CONFIGURATION Standard - 1" IPS Victualic, 316 Stainless Steel (Standard Optional - Multi-Ports™, increased port diameter or port clor please fill out your feed port configuration in the space below List port location first followed by port size for each choice.	pe i eking	r drawing)
Serial nu	□ □ imber end	Standard - 1" IPS Victualic, 316 Stainless Steel (Standard Optional - Multi-Ports™, increased port diameter or port clor please fill out your feed port configuration in the space below	pe i eking	r drawing)

PORT LOCATION CODE

Serial Number End