

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

* GRADE CF8M AS PER ASME SA-351

45058

47459

A/R

45296

Saddle

Adapter

PWT/Adapter seal

Strap Assy.

ELEMENT INTERFACE

* 2 each furnished with length code 1.2 & 3.

12 * 3

13

14 2

15 2 Cast Urethane Elastomer

Engineering Thermoplastic.

Ethylene Propylene - O - Ring

304 Stainless Steel-PVC Cushion.

	* CodeLine							
			Pentair Water					
DRAWN	MD		CODELINE - 40S30					
DATE	02APR08	MEMBRANE HOUSING						
CHECKED	MD	ECN		5,40				DEV/
DATE	02APR08	LCIV	1707	DWG. N	Ю.	9931	l	REV.
APPROVED	SS	DATE		SCALE	SIZE			' '
DATE	02APR08		03DEC09	NONE	SIZE	A3	SHEET	1 OF 2

(ENDS ARE IDENTICAL)

RATING:

DESIGN PRESSURE	300 PSI at 120°F (2.1 MPa at 49°C
MIN. OPERATING TEMP	20°l
FACTORY TEST PRESSURE.	330 PS (2.275 MPa
BURST PRESSURE	

INTENDED USE

The Model 40s30 Fiberglass RO/UF Pressure Vessel is designed for confinuous, long-term use as a housing for reverse osmosis and ultrafiltration elements in typical industrial water treatment systems 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 40\$30 is designed in accordance with the engineering standards of the Boller 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 40S30 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 responsibility of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

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; DIA = 0.01 in. (0.25 mm) and 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 120°F (0.9 MPa at 49°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

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.

EXTERIOR FINISH - please check one

☐ Standard - white high-gloss polyurethane coating over sanded surface.

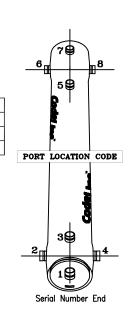
CERTIFICATION - please check one

- ☐ 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.

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

Please supply adapters for the following me	mbrane brand and specific model.
Brand	Model
Membrane brand and model information is on or before the following date.	not currently available, but will be supplied to CodeLine

erial number end 	Opposite end	PERMEATE PORT MATERIAL Standard - PET Option - PVC (120°F maximun) Option - 316 Stainless Steel	PORT SIZE COD		
		PERMEATE PORT CONFIGURATION Standard - 1/2" NPT Female (Standard per drawing)	A B	3/4" NPT FEMALE 3/4" BSP/JIS FEMA	
		Option - 1/2" BSP/JIS Female FEED PORT CONFIGURATION Standard - 1" IPS Victualic, 316 Stainless Steel (Standard Optional - Multi-Ports™, increased port diameter or port clocking, please fill out your feed port configuration in the space below. List port location first followed by port size for each choice.	c rd ;	1" GROOVED END Der drawing)	
Serial number end Opposite end					



Please note that we require your membrane brand and model

available, you may provide it at a later date by checkina the

number when ordering. If this information is not initially

appropriate box below

NOTE

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

Specifications subject to change without notice.

Dwg. No. 99311- Rev F