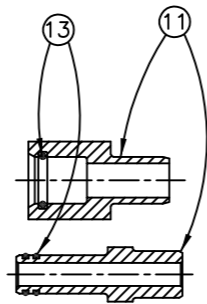
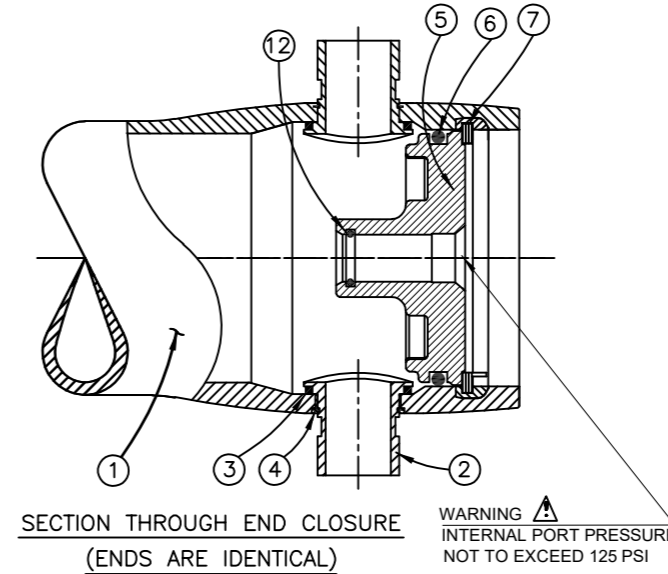


VIEW AT CENTER SUPPORT
 CENTER VESSEL ON 2 OR 3 SUPPORTS
 AT SPAN(S) *S* : 3 SUPPORTS REQUIRED
 FOR LENGTHS -4 AND OVER

| DWG REF | QTY | PART NUMBER | DESCRIPTION | MATERIAL |
|--------------------------|-----|-------------|-------------------|-----------------------------------------------------------------------------------------|
| SHELL | | | | |
| 1 | 1 | 99278 | SHELL | Filament Wound Epoxy/Glass composites - Head locking grooves integrally wound in place. |
| 2 | A/R | REF. PAGE 2 | F/C Port | SA-351 CF8M . |
| 3 | A/R | 47135 | F/C Port Seal | Ethylene Propylene - Square Cut |
| 4 | A/R | 45251 | F/C Port Retainer | 18-8 Stainless Steel |
| HEAD | | | | |
| 5 | 2 | 96827 | End Plug | Engineering Thermoplastic. |
| 6 | 2 | 45317 | Head Seal | Ethylene Propylene - O - Ring |
| HEAD INTERLOCK | | | | |
| 7 | 2 | 45260 | Retainer Ring | SA-479 SS316 |
| VESSEL SUPPORT | | | | |
| 8 | 2* | 45058 | Saddle | Engineering Thermoplastic. |
| 9 | 2* | 47459 | Strap Assy. | 304 Stainless Steel-PVC Cushion. |
| 10 | 4** | 97821 | Strap Screw. | 5/16-18 UNC X 1.5" L, 18-8 Stainless Steel |
| ELEMENT INTERFACE | | | | |
| 11 | 2 | A/R | Adapter | Engineering Thermoplastic. |
| 12 | 2 | 45296 | Adapter seal | Ethylene Propylene - O - Ring |
| 13 | A/R | A/R | PWT seal | Ethylene Propylene - O - Ring |



CAUTION: INCORRECT MANIFOLDING WILL CAUSE SEVERE LOCAL STRESS AROUND PORT AND MAY RESULT IN LEAKS AND PREMATURE FAILURE; TAKE EVERY PRECAUTION LISTED ON PAGE 02, SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS



| NO. OF PORTS | PORT LOCATION | | | VESSEL QTY. |
|--------------|---------------|---------------|-------------|----------------------|
| | | | | |
| Dash Length | L IN(MM) | P IN(MM) | S IN(MM) | Approx Weight LB(KG) |
| -1 | 48.00 (1219) | 42.00 (1067) | 25X1 (635) | 13 (6) |
| -2 | 88.00 (2235) | 82.00 (2083) | 56X1 (1422) | 19 (9) |
| -3 | 128.00 (3251) | 122.00 (3099) | 80X1 (2032) | 27 (12) |
| -4 | 168.00 (4267) | 162.00 (4115) | 64X2 (1626) | 34 (16) |
| -5 | 208.00 (5283) | 202.00 (5131) | 78X2 (1981) | 40 (18) |
| -6 | 248.00 (6299) | 242.00 (6147) | 92X2 (2337) | 45 (20) |

GENERAL NOTES:
 1. DIMENSIONS IN INCHES (MM APPROX)
 2. NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED
 3. SHELL EXTERIOR COATED WITH WHITE RAL 9003, HIGH GLOSS POLYURETHANE PAINT.

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| | | | |
|-----------------|------------------------------------------------------|--------------------------|-------------|
| DRAWN BY: RA | DRAWING DESCRIPTION: MODEL-40S30 NC MEMBRANE HOUSING | DRAWING NO.: 99312 | REV.: N |
| DATE: 15/09/21 | CUSTOMER NAME: - | VESSEL MODEL: 40S30 (NC) | |
| CHECKED BY: KPS | PROJECT NAME: - | TOTAL QTY: - | |
| DATE: 15/09/21 | CUSTOMER P.O.#: - | SIZE: A3 | SCALE: NONE |
| APPROVED BY: FF | DATE: 16/12/21 | PAGE NO.: 01 OF 02 | |

RATING:

DESIGN PRESSURE.....300 PSI
(2.07 Mpa)
MAX. OPERATING TEMP.....120°F
(49°C)
MIN. OPERATING TEMP.....20°F
(-7°C)
FACTORY TEST PRESSURE.....450 PSIG
(3.10 MPa)
BURST PRESSURE.....1800 PSI
(12.41 MPa)

INTENDED USE:

The Model 40S30 Fiberglass RO/UF Pressure Vessel is designed for continuous, long term use as housing for reverse osmosis and ultrafiltration elements in typical industrial water treatment systems at pressures up to 300 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 Model 40S30 is designed in accordance with the engineering standards of the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers (ASME Code) Section X Edition 2021 and all metallic parts are designed as per Section VIII Division 1 Edition 2021.

The Model 40S30 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. 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 metal components, must be kept dry and free of corrosion; deterioration can lead to catastrophic mechanical failure of the heads.

Pentair 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. Alternate materials with enhanced corrosion resistance are available on special order.

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...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 IPS grooved-end pipe couplings, at side ports; allow full, 0.125 inch gap between port and piping, and position piping to maximize flexibility of connection
- DO...provide flexibility in, and support for piping manifolds 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 resists growth of fiberglass shell under pressure; ΔDIA = 0.01 in. (0.25mm) and ΔL = 0.140 in. (3.5mm) 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 interconnecting hardware.
- DO NOT... operate vessel with permeate pressure in excess of 125 psi at 120°F (0.86 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... operate outside the pH range 3-11

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 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

CODELINE MODEL 40S30 Non Coded -1 -2 -3 -4 -5 -6

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 available, but will be supplied to Pentair on or before the following date ____/____/____

CERTIFICATION – please check required

- CE Marked (Not applicable for -1 length vessel).
- Standard, Certified by Pentair, not code stamped.

EXTERIOR FINISH

- Standard – White high-gloss RAL 9003 polyurethane coating over sanded surface.

FEED PORT CONFIGURATION

- Standard – 1” IPS Grooved End
- Optional – Multi-Ports, Port clocking.

Serial number End Opposite End

PERMEATE PORT CONFIGURATION
Standard – ½” NPT Female (Standard per drawing)
Optional - ½” BSPT/JISPT Female

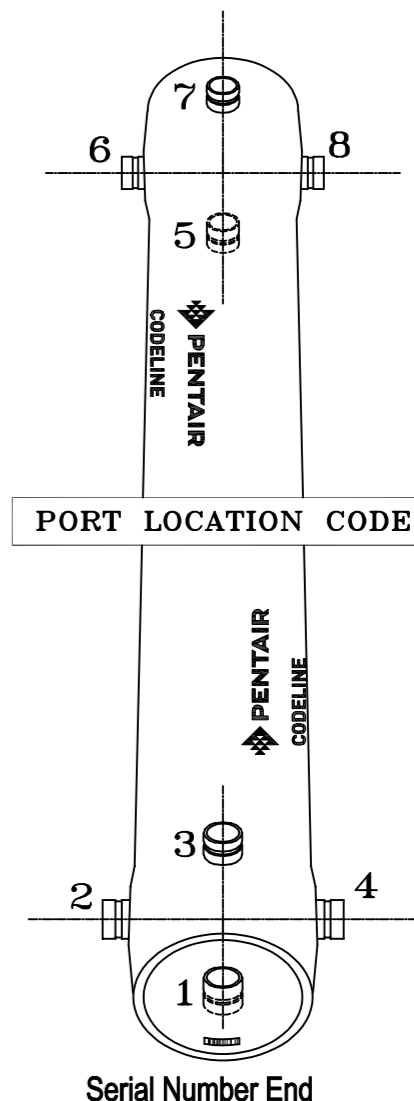
Please fill out your feed port configuration in the space below.
List port location first followed by port size for each choice.

Serial number end
Opposite end

| PORT SIZE CODE | | PART NO. |
|----------------|----------------------|----------|
| A | ¾” NPT FEMALE | 50894 |
| B | ¾” BSPT/JISPT FEMALE | 50895 |
| C | 1” GROOVED END | 45175 |

For complete information on proper use of the vessel
Please refer to 40S series USER'S GUIDE - 96897

NOTE
Spiral Retaining Ring Removal Tool (50303)
Recommended to open and close vessel.



CODELINE BODY LABELS ARE PLACED AT 90° ON SERIAL NUMBER END AND AT 270° ON THE OPPOSITE SIDE END

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|--------------|----------|-----------------------------------|---------------|-----------|
| DRAWN BY: | RA | DRAWING DESCRIPTION: | DRAWING NO.: | REV.: |
| DATE: | 15/09/21 | MODEL - 40S30 NC MEMBRANE HOUSING | 99312 | N |
| CHECKED BY: | KPS | CUSTOMER NAME: | VESSEL MODEL: | |
| DATE: | 15/09/21 | - | 40S30 (NC) | |
| APPROVED BY: | FF | PROJECT NAME: | TOTAL QTY: | |
| DATE: | 15/09/21 | - | - | |
| ECN NO.: | 5881 | CUSTOMER P.O.#: | SIZE: | SCALE: |
| DATE: | 16/12/21 | - | A3 | NONE |
| | | | | PAGE NO.: |
| | | | | 02 OF 02 |