

4

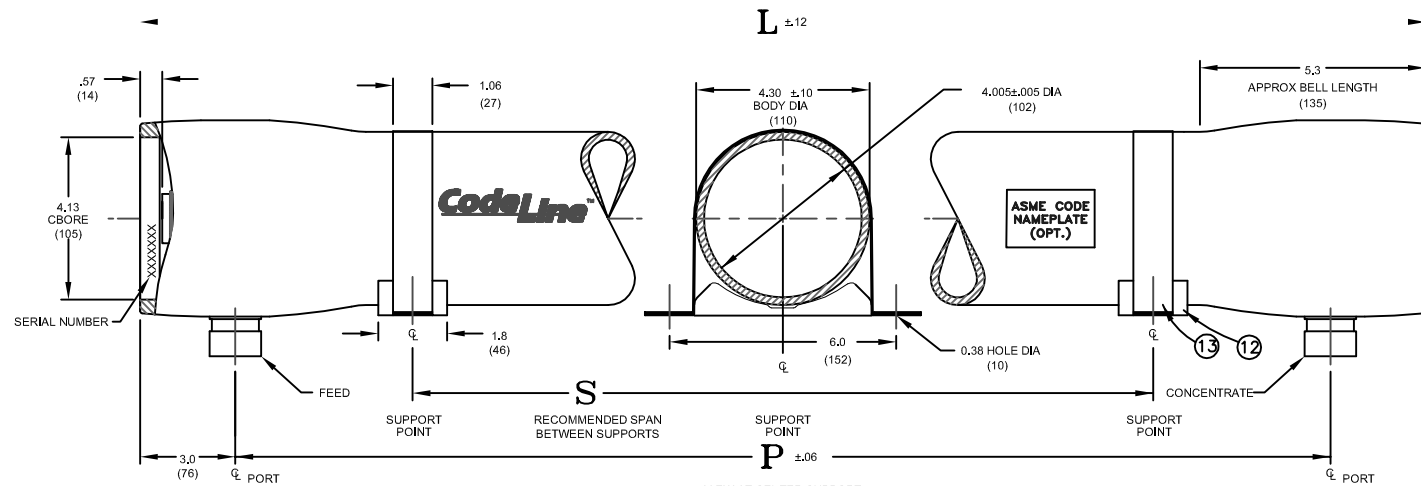
3

2

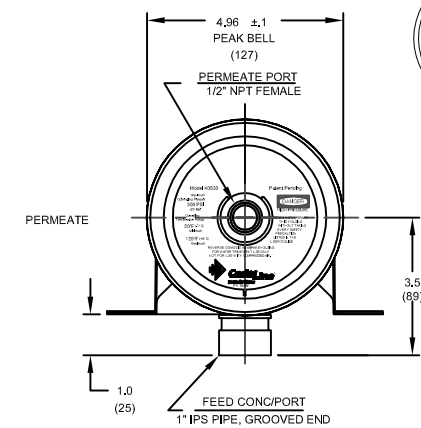
1

B

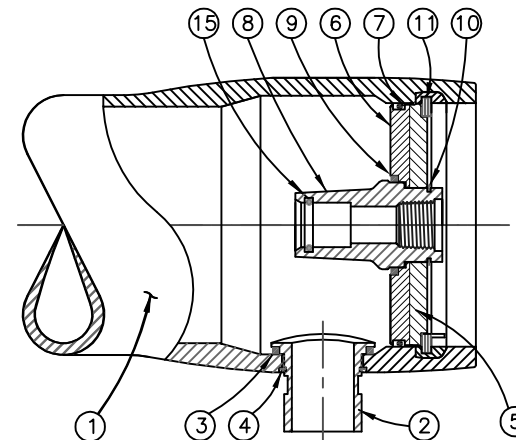
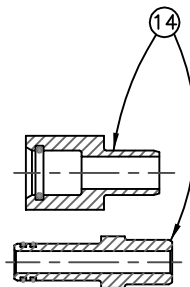
B



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	ORDER SECTION	SHELL	Filament Wound Epoxy/Glass composites - Head locking grooves integrally wound in place.
2	A/R		F/C Port	CF8M*
3	A/R		F/C Port Seal	Ethylene Propylene - Square Cut
4	A/R		F/C Port Retainer	300 Series SST
HEAD				
5	2	96803	Bearing Plate	316L Stainless Steel / Equivalent.
6	2	96855	Sealing Plate	Engineering Thermoplastic.
7	2	45317	Head Seal	Ethylene Propylene - O - Ring
8	2	96807	Permeate Port	Engineering Thermoplastic.
9	2	45335	Permeate Port Seal	Ethylene Propylene - O - Ring
10	2	45242	Port Retainer	300 Series SST
HEAD INTERLOCK				
11	2	45260	Retainer Ring	316 Stainless Steel.
VESSEL SUPPORT				
12	* 3	45058	Saddle	Cast Urethane Elastomer
13	* 3	47459	Strap Assy.	304 Stainless Steel-PVC Cushion.
ELEMENT INTERFACE				
14	2	A/R	Adapter	Engineering Thermoplastic.
15	2	45296	PWT/Adapter seal	Ethylene Propylene - O - Ring
* 2 each furnished with length code 1,2 & 3.				



SECTION THROUGH END CLOSURE
(ENDS ARE IDENTICAL)

- DIMENSIONS IN INCHES (MM APPROX)
- NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED
- GRADE CF8M AS PER ASME SA-351

Dash Length	L IN(MM)	P IN(MM)	S IN(MM)	Approx Weight LB(KG)
-1	48 (1219)	42 (1067)	25X1 (635)	13.4 (6.1)
-2	88 (2235)	82 (2083)	56X1 (1422)	19.4 (8.8)
-3	128 (3251)	122 (3099)	80X1 (2032)	26.9 (12.2)
-4	168 (4267)	162 (4115)	64X2 (1626)	34.4 (15.6)
-5	208 (5283)	202 (5131)	78X2 (1981)	41.9 (19.0)
-6	248 (6299)	242 (6147)	92X2 (2337)	49.4 (22.4)



DRAWN	MD	ECN 2170			DWG. NO. 99311		REV. H
DATE	02APR08						
CHECKED	MD	DATE 18MAY11			SCALE NONE	SIZE A3	SHEET 1 OF 2
DATE	02APR08						
APPROVED	SS	DATE 18MAY11			SCALE NONE	SIZE A3	SHEET 1 OF 2
DATE	02APR08						

4

3

2

1

A

DESIGN PRESSURE..... 300 PSI at 120°F
(2.1 MPa at 49°C)

MIN. OPERATING TEMP..... 20°F
(-7°C)

FACTORY TEST PRESSURE..... CE/ASME
450 PSIG/330 PSIG
(3.10 MPa)/(2.27 MPa)

BURST PRESSURE..... 1800 PSI
(12.2 MPa)

The Model 40S30 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 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 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 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.

Specifications subject to change without notice.

- 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... make rigid piping connections to ports or clamp vessel in any way that restricts growth of fiberglass shell under pressure; Δ DIA = 0.01 in. (0.25 mm) and Δ L = .140 in. (3.5 mm) for a length code -8 vessel

DO NOT... install Spacer on downstream end of vessel

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

☐ Membrane brand and model information is not currently available, but will be supplied to CodeLine on or before the following date. ____/____/____

333

11

□ □ □ □ □ □ □ □

List port location first followed by port size for each choice.

Diagram illustrating the Port Location Code for a CodaLab container. The container is shown with various ports labeled with numbers 1 through 8. The ports are arranged as follows:

- Port 1: Located at the bottom (Serial Number End) of the container.
- Port 2: Located on the left side of the bottom section.
- Port 3: Located on the right side of the bottom section.
- Port 4: Located on the right side of the bottom section.
- Port 5: Located on the left side of the middle section.
- Port 6: Located on the left side of the top section.
- Port 7: Located on the right side of the top section.
- Port 8: Located on the right side of the top section.

The container is labeled "CodaLab" on both the left and right sides. A label "PORT LOCATION CODE" is positioned above the middle section of the container.

Dwg. No. 99311-Rev H