

RATING:

600 PSIG at 176°F DESIGN PRESSURE..... (4.137 MPa at 80°C)

NDTE: FOR 316L SS BEARING PLATE600 PSI at 190°F ** **

(4.137 MPa at 88°C)

MIN. OPERATING TEMP...... (-7°C)

660 PSIG FACTORY TEST PRESSURE......(4.551 MPa)

BURST PRESSURE......(24.8 MPa)

INTENDED USE

The CodeLine Model 40A60Fiberglass RD Pressure Vessel is designed for continuous, long-term use as a housing for reverse osmosis membrane elements to desalt typical brackish waters at pressures up to 600 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 Codeline Model 40A60 is designed in accordance with the engineering stabdards of the Boiler and pressure Vessel Code of the American Society of Mechanical Engineers (ASME Code). At small additional cost vessels can be inspected during construction by an ASME Authorized Inspector and ASME Code stamped.

The CodeLine Model 40A60 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 metal 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 responsibilty of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

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

Specifications subject to change without notice.

PRECAUTIONS

DD... read, understand and follow all instructions; failure to take every precaution will void warranty and may result in vessel failure

DD... mount shell centered on horizontal members spaced at recomended span(s) " " using compliant mounting hardware furnished; tighten hold down straps just snug

DD... align and center side ports with the manifold header; correct causes of misalignment in a row of vessels connected to the same header

DD... 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

DD... 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

DD... provide overpressure protection for vessel set at not more than 105% of design pressure

DD... inspect end closures regularly; replace components that have deteriorated and correct causes of corrosion

DD NOT... work on any component until first verifying that pressure is relieved from vessel

DD NOT... make rigid piping connections to ports or clamp vessel in any way that restricts growth of fiberglass = 0.015 in. (0.4 mm) and shell under press∟e; DIA $\Delta L = 0.2$ in (6mm) 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 ... tighten Permeate Port connection more than one turn past hand tight

DO NOT ... operate vessel without connecting both Permeate Ports internally to a complete set of elements or otherwise plug ports internally so that external piping connection is not subjected to feed pressure

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

DD NDT... operate vessel without Thrust Cone installed downstream

DO NOT... pressurize vessel until double checking to verify that the Retaining Ring is in place and fully seated.

DO NOT... operate vessel at pressures and temperatures in excess of its rating

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

DD NDT... operate at pH levels below 3 or above 10

DRDERING

Using the chart below, please check the features you require Please note that we require your membrane brand and model and fax them with your purchase order to our customer number when ordering. If this information is not initially service department for expedited processing. available, you may provide it at a later date by checking the For optional materials and or feature not listed below, please appropriate box below

consult the factory for pricing and availability.

VESSEL LENGTH CODE please check one MDDEL 40A60 □-1 □-2 □-3 □-4 □-5 □-6 EXTERIOR FINISH -

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

Option - optional colors are available for 50 or more vessels per order. Call factory for pricing details.

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 currently available, but will be supplied to CodeLine

MATERIAL AND PORT CONFIGURATIONS OPTIONS please check one

□ Standard - all materials and port configurations per drawing 99128 on the opposite page. NDTE: The options listed below will increase the vessel price. Call factory for pricing details.

Option Customer specified port configurationing the chart below, please indicate the custom options you require for each end of the pressure vessel (many options are required only at one end). Please consult the factory as these options will affect pricing and vessel lead time.

PERM	1EAT	PORT	CONFIGURA	NOITA

on or before the following date. ____/___/___

Standard - 1/2" NPTF Optional -3/4" SANITARY TRICLOVER

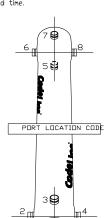
FEED PORT CONFIGURATION

Standard - 1" IPS pipe, grooved ends, with ports in-line Optional - Mult™Ports Using the instructions in CodeLine Bullentin #507054

please fill out your feed port configuration in the space below. Ports not available in 90° configurations.

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

Serial number end Opposite end



Serial Number End

PORT SIZE CODE

1' GROOVED END

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