Dash Length L (IN/MM)  P (IN/MM)  S (IN/MM)  Approx Weight LB (KG)
-1 48 1219 42 25X1 (1067) 13.4 (6.1)
-2 88 2235 82 56XI (2083) 19.4 (8.8)
-3 128 3251 122 80XI (3099) 26.9 (12.2)
-4 168 4267 162 46XI (4115) 34.4 (15.6)
-5 206 5283 202 78XI (5131) 41.9 (19.0)
-6 248 6299 242 92XI (6147) 49.4 (22.4)

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RATING:

DESIGN PRESSURE............. 300 PSI at 120°F (2.1 MPa at 49°C)
MIN. OPERATING TEMP............... 20°F (-7°C)
FACTORY TEST PRESSURE ... 450 PSI/330 PSI
(3.10 MPa)/(2.27 MPa)
BURST PRESSURE............... 1800 PSI (12.2 MPa)

INTENDED USE

The Model 4630 Fiberglass RO/UF Pressure Vessels are 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 mass of 4-inch nominal diameter sandwich element is easily accommodated. The appropriate interlocking hardware for the element specification is furnished with the vessel.

The Model 4630 must be installed, operated, and maintained in accordance with the instructions listed and good industrial practice to assure safe operation over a long service life.

The high performance reinforced elastics that must be allowed to expand under pressure, without restraint at support points or piping connections can cause leaks to develop in the shell. This side-specific wastage requires special precautions in mounting and connecting to piping so that the vessel will not be subjected to excessive stress due to bending moments acting at the side openings in the fibreglass shell.

The end closures, incorporating glass-filled, interlocking components, must be seatable and free of corrosion; deterioration can lead to catastrophic mechanical failure of the heads.

Peelair 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, is the responsibility of the purchaser. Alternative models with enhanced corrosion resistance are available on special order.

PRECAUTIONS

DO... read, understand, and follow all instructions failure to take any precaution will void warranty and may result in vessel failure.
DO... mount vessel on horizontal flat surface at centralization - using corrosion resistant supports temporary; tighten bolt down strip just snug.
DO... align and center side ports with the manifold header; correct course of misalignment is crew of vessel connected to the same header.
DO... use flexible type IPS grooved banded pipe couplings, at sidewalls; allow full 1/2 inch gas port between piping and position piping to maximum flexibility of component.
DO... provide flexibility in and support piping to ensure proper length under pressure with unknown restraint; provide additional flexible joints in large pipes leaching to manifold header.
DO... provide overpressure protection for vessel at not more than 110% of design pressure.
DO... inspect and replace gaskets; replace components that have deteriorated and correct causes of corrosion.

DO NOT... work on any component until first verifying that pressure is relieve from vessel.
DO NOT... make rigid piping connections to ports or abase the vessel as any treatment can result in increased strength of fibreglass and elastomer pressure, 210°C (42°F) and (70°C) to 1/8 in. (3.5 mm) for a length code on vessel.
DO NOT... hang piping manifold from ports or use vessel as any method to support other components.
DO NOT... operate vessel at pressures and temperatures in excess of rating.
DO NOT... operate without Permeate Ports internally connected with a complete set of all 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... filet welds or allow end closures to be routinely worked in any way.
DO NOT... pressure vessel until double checking to verify that the retaining rings are in place.

ORDERING

Using the chart below, please check the feature you require and fax them with your purchase order to our customer service department for expedited processing.

For additional sketch and or feature not listed below, please consult the factory for pricing and availability.

VESSLE LENGTH CODE .... please check one

- MODEL 4630 -
- SIZE 1.0 - 1.5 - 2 - 3 - 4 - 5 - 6 - 8

EXTERIOR FINISH -

- Standard - white high glossy polyurethene coating on oversanded surface.

CERTIFICATION -

- Standard, certified by Code Line, not code stamped.

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

- Please supply adapters for the following membranes brand and specific model.
- Membrane brand and model information is currently available, but will be supplied to Code Line on or before the following date.

PERMEATE PORT CONFIGURATION

- Standard - 1/2" NPT Female (Standard per drawing)
- Option - 1/2" BSP Female

FEED PORT CONFIGURATION

- Standard - 1" IPS Grooved End, CFBM (Standard per drawing)
- Option 1 - MultiPorts™ port, blocking.

Note: Tube port location first followed by port size for each choice.

Serial Number End

Distributed By:

Applied Membranes Inc.

Industry Leader in RO Expertise and Membrane Applications since 1983™

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