<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SHELL</td>
<td>Filament Wound Epoxy/Glass composites - Head locking grooves integrally wound in place.</td>
</tr>
<tr>
<td>2</td>
<td>F/C Port Seal</td>
<td>Ethylene Propylene - Square Cut</td>
</tr>
<tr>
<td>3</td>
<td>F/C Port Retainer</td>
<td>300 Series SST</td>
</tr>
<tr>
<td>4</td>
<td>A/R</td>
<td>End Plug</td>
</tr>
<tr>
<td>5</td>
<td>Head Seal</td>
<td>Ethylene Propylene - O-Ring</td>
</tr>
<tr>
<td>6</td>
<td>Retainer Ring</td>
<td>316 Stainless Steel.</td>
</tr>
<tr>
<td>7</td>
<td>Head</td>
<td>Engineering Thermoplastic.</td>
</tr>
<tr>
<td>8</td>
<td>Saddle</td>
<td>Engineering Thermoplastic.</td>
</tr>
<tr>
<td>9</td>
<td>Strap Assy.</td>
<td>304 Stainless Steel-PVC Cushion.</td>
</tr>
<tr>
<td>10</td>
<td>A/R</td>
<td>Adapter</td>
</tr>
<tr>
<td>11</td>
<td>PW T Adapter seal</td>
<td>Ethylene Propylene - O-Ring</td>
</tr>
</tbody>
</table>

* 3 each furnished with length code 4, 5, & 6.

**DIMENSIONS IN INCHES (MM APPROX)**

* NOT TO BE USED FOR CONSTRUCTION UNLESS CERTIFIED ENGINEER CFM AS PER ANSI SA-581.
RATING:

**DESIGN PRESSURE:** 
450 PSI at 120°F (3.1 MPa at 49°C)

MIN. OPERATING TEMP. 
20°F (-7°C)

FACTORY TEST PRESSURE 
675 PSI / 495 PSI (4.65 MPa/3.41 MPa)

BURST PRESSURE 
2700 PSI (18.65 MPa)

INTENDED USE

The Model 4054-5 fiberglass RO/UF Pressure Vessels 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 reuse of the original size, material, and good industrial practice to assure safe operation over a long service life.

The high performance reinforced plastic must be allowed to expand and shrink in a restrained manner. Any crack in the shell or the side-slow could require special precautions in mounting and connection to piping so that the vessel will be not be subjected to excessive stress due to thermal expansion. The shell and a cross-air are necessary in the gasifier to keep the vessel under pressure. The high performance reinforced plastic must be allowed to expand under pressure, and thus should be provided through a restrained manner. Any crack in the shell or the side-slow could require special precautions in mounting and connection to piping so that the vessel will be not be subjected to excessive stress due to thermal expansion. The high performance reinforced plastic must be allowed to expand under pressure, and thus should be provided through a restrained manner.

The end closures, incorporating cross-air, and re-loading components, must be leak-tight and free of corrosion; deterioration can lead to catastrophic mechanical failure of the vessel.

Perforated 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.

Specifications 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 vessel on horizontal member of central core using corrugated vessel supports furnished. Tighten bolts down street just snug.

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

DO... use flexible type hose screwed to pipe connections. At sideports allow full 125 inch gap between port and piping, and position piping to maintain 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 parts in large pipes leading to the manifold header.

DO... provide overpressure protection for vessel at not more than 150% of design pressure.

DO... inspect and clean 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... move rigid piping connections to ports or change vessel in any way that restricts growth of fiberglass shell under pressure, (e.g., 3/4” or 1” (25.4 mm) and 1” (34.9 mm) for a length code 4 vessel).

DO NOT... hang piping manifold from ports or use vessel for any way to support other components.

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

DO NOT... operate vessel without Permeate Port internal 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 excess of vessel to be flushed in any way.

DO NOT... pressure vessel until double checking to verify that the flaring rings are in place.

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

NOTE

Spiral Flaring Ring Removal Tool (SM401607-1) recommended to open and close 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 additional features and or feature not listed below, please consult the factory for pricing and availability.

VEssel LENGTH CODE - please check one

□ MODEL 4054-5 - - 1 - 2 - 3 - 4 - 5 - 6

EXTerior FINISH -

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

CERTIFICATION -

□ Standard - certified by CodeLine, not code stamped.

□ Tested as per ASME, not code stamped

MEMBRANE BRAND AND MODEL -

□ Please supply adapters for the following membrane brand and specific model.

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

PERMEATE PORT CONFIGURATION

□ Standard - 1/2” NPT Female (Standard per drawing)

□ Optional 1/2” BSPP Female

FEED PORT CONFIGURATION

□ Standard - 1” IPS Grooved End, CFSM (Standard per drawing)

□ Optional - MultiPorts™ port bunging

□ Please fill out your feed port configuration in the space below. Let port location fall by port site for each choice.

Select number end

1 2 3 4 5 6

Opposite end

1 2 3 4 5 6

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Applied Membranes INC.

Industry Leader in RO Expertise with Membrane Applications since 1983™

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