**Dash Length**

<table>
<thead>
<tr>
<th>Dash</th>
<th>L (IN/MM)</th>
<th>P (IN/MM)</th>
<th>S (IN/MM)</th>
<th>Approx Weight LB(KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>48 (1219)</td>
<td>42 (1067)</td>
<td>25X1 (635)</td>
<td>13.4 (6.1)</td>
</tr>
<tr>
<td>-2</td>
<td>88 (2235)</td>
<td>82 (2083)</td>
<td>56X1 (1422)</td>
<td>19.4 (8.8)</td>
</tr>
<tr>
<td>-3</td>
<td>128 (3251)</td>
<td>122 (3099)</td>
<td>80X1 (2032)</td>
<td>26.9 (12.2)</td>
</tr>
<tr>
<td>-4</td>
<td>168 (4267)</td>
<td>162 (4115)</td>
<td>64X2 (1626)</td>
<td>34.4 (15.6)</td>
</tr>
<tr>
<td>-5</td>
<td>206 (5283)</td>
<td>202 (5131)</td>
<td>78X2 (1891)</td>
<td>41.9 (19.0)</td>
</tr>
<tr>
<td>-6</td>
<td>248 (6291)</td>
<td>242 (6147)</td>
<td>92X2 (2337)</td>
<td>49.4 (22.4)</td>
</tr>
</tbody>
</table>

* Dash Lengths are in inches and approximate weights are in pounds.

**Shell**
- Material: Filament Wound Epoxy/Glass composites - Head locking grooves integrally wound in place.

**A/R F/C Port**
- Material: CF8M

**A/R F/C Port Seal**
- Material: Ethylene Propylene - Square Cut

**A/R F/C Port Retainer**
- Material: 300 Series SST

**Permeate Port**
- Material: Engineering Thermoplastic

**Permeate Port Seal**
- Material: Ethylene Propylene - O-Ring

**PWT/Adapter seal**
- Material: Ethylene Propylene - O-Ring

**Saddle**
- Material: Cast Urethane Elastomer

**Strap Assy.**
- Material: 304 Stainless Steel-PVC Cushion

**Ranger Ring**
- Material: 316 Stainless Steel

**Strap Assy.**
- Material: 304 Stainless Steel-PVC Cushion

**Section Through End Closure**

(Ends are identical)
RATING:

**DESIGN PRESSURE** .... **300 PSI** at **120°F**

**MIN. OPERATING TEMP.** .... **20°F**

**FACTORY TEST PRESSURE** .... **CE/ASME 450 PSIG/330 PSI**

**BURST PRESSURE** .... **1800 PSI**

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**INTENDED USE**

The Model 4035/30 Prestige RO/UF Pressure Vessels designed for commercial, 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 6 micron or nominal diameter spiral wound element is easily accommodated. The appropriate interfacing hardware for the element specified is furnished with the vessel.

The Model 4035 is designed in accordance with the engineering standards of the Beer and Process Vessel Code of the American Society of Mechanical Engineers (ASME Code). At a small additional cost, vessels can be insulated during construction by an ASME Authorized Inspector and ASME Code stamped.

The Model 4035 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 plastics that must be allowed to expand under pressure, and extensive material and support points or piping connections can cause leaks in vessels due to the stress applied. The vessel should be allowed to expand under pressure, and extensive material and support points or piping connections can cause leaks in vessels due to the stress applied. The vessel should be allowed to expand under pressure, and extensive material and support points or piping connections can cause leaks in vessels due to the stress applied.

The end closures, incorporating clamping, interlocking components, must be leak tight and free of corrosion; deterioration can lead to catastrophic mechanical failure of the vessel.

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 conditions, must be the responsibility of the purchaser. Alternate materials with enhanced corrosion resistance are available on special order.

Specifications subject to change without notice.

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**PRECAUTIONS**

- **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 of concentration using corrosion-resistant supports; tighten down slowly, align and center side ports with the manifold header; correct causes of misalignment in a crew of vessels connected to the same header.
- **DO...** use flexible type IPS grooved end pipe couplings, at sidetaps allow full 1½ inch gap between port and piping, and position piping to minimize 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 spares when using vessels feeding to manifold header.
- **DO...** provide overpressure protection for vessel at not more than 15% 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 test verifying that pressure is relieved from vessel.
- **DO NOT...** make rigid piping connections to ports or frame vessel in any way that restricts growth of fiberglass shell under pressure.
- **DO NOT...** hang piping manifold from ports or use vessel in any way to support other components.
- **DO NOT...** operate vessel below design pressures and temperatures in excess of 15%.
- **DO NOT...** operate vessel without Permeate Ports internally 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 40°C).
- **DO NOT...** operate vessel without Permeate Ports internally connected with a complete set of elements and interconnecting hardware.
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**ORDERING**

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

- **VESSEL LENGTH CODE** - please check one
  - **MODEL 4035**
    - **1**
    - **2**
    - **3**
    - **4**
    - **5**
- **EXTERIOR FINISH** - please check one
  - Standard - white high-gloss polyester coating over sandblasted finish.
- **CERTIFICATION** - please check one
  - Standard - certified by Codaline, not code stamped.
  - CE Marked
  - Option - Certified by ASME Authorized Inspector, Code stamped and registered with National Board. Call factory for pricing details.
- **MEMBRANE BRAND AND MODEL** - please check one and fill in information
  - Please supply the specific membrane brand and model number. Brand _______________________ Model _______________________

**PERMEATE PORT MATERIAL**

- **Standard - PET**
- **Option - PVC (120°F maximum)**

**PERMEATE PORT CONFIGURATION**

- **Standard - 1” NPT Female** (Standard per drawing)
- **Option - 1” BSP Female**

**FEED PORT CONFIGURATION**

- **Standard - 1” IPS Grooved End, CRB3 (Standard per drawing)
- **Option - Male/Female port, Crimp**

Please note that we require your membrane brand and model number when ordering. If this information is not currently available, you may provide it at a later date by checking the appropriate box below.

**Serial Number Code**

- **Standard**
- **Custom**

**Distributed by**

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