Clover Leaf Reactors

Assembly Instructions

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Clover Leaf Reactors

Description:

The "Clover Leaf" Closure Reactors provide maximum ease for quick opening or closing of the cover. The cover is simply inserted into the body and then rotated one-eighth of a turn. A safety locking pin is provided to insure that the cover is properly positioned and locked.

Standard material of construction for these reactors is heat treated 4340 alloy steel. Standard connections include two high pressure (coned and threaded) 1/4” O.D. tubing connections (HF4).

Mounting holes are provided in the top and bottom of the body for securing or lifting.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Inside Diameter</th>
<th>Outside Diameter</th>
<th>Inside Depth</th>
<th>Working Pressure psi</th>
<th>Temperature Rating °F</th>
<th>Capacity</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-1</td>
<td>3&quot;</td>
<td>6'/&quot;</td>
<td>9”</td>
<td>30,000</td>
<td>250</td>
<td>1,000 ml</td>
<td>Alloy Steel</td>
</tr>
<tr>
<td>CL-2</td>
<td></td>
<td></td>
<td>18”</td>
<td></td>
<td></td>
<td>2,000 ml</td>
<td></td>
</tr>
<tr>
<td>CL-3</td>
<td></td>
<td></td>
<td>22”</td>
<td></td>
<td></td>
<td>2,500 ml</td>
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</tr>
<tr>
<td>CL-8</td>
<td>4&quot;</td>
<td>9'/&quot;</td>
<td>9”</td>
<td>30,000</td>
<td>250</td>
<td>1,850 ml</td>
<td>Alloy Steel</td>
</tr>
<tr>
<td>CL-9</td>
<td></td>
<td></td>
<td>18”</td>
<td></td>
<td></td>
<td>3,700 ml</td>
<td></td>
</tr>
</tbody>
</table>

Assembly Instructions for Clover Leaf Reactors:

1. Install O-ring on cover. A process-compatible grease sealant, such as Krytox or Dow Corning O-Ring lubricant, is usually desirable to enhance sealing.
2. Inspect the body in the O-ring sealing area to make sure it is free of scratches and dirt.
3. Align cover tabs with mating slots on the body.
4. Insert cover into the body.
   a. There is a locking pin hole in both the body and cover that will need to be aligned before pressurization.
5. Rotate the cover until the locking pin hole on the cover aligns with the locking pin hole on the body.
6. Insert locking pin and the reactor is ready to be pressurized.

Note: Most Clover Leaf Reactor designs come with a pressure connection on the body side wall and the body bottom. Refer to assembly drawing for connection locations and details.