Modulating Water Valves and Bulb Wells

APPLICATION: These modulating valves regulate the flow of water to the heat exchanger to maintain a desired exiting oil temperature. They open automatically when temperature increases at the sensing bulb. No external power source is required to actuate the valve. Not to be used for salt water service.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PIPE SIZE (NPT)</th>
<th>RANGE (OPENING POINT)</th>
<th>SENSING BULB SIZE DIAMETER x LENGTH</th>
<th>MAXIMUM WATER FLOW</th>
<th>RECOMMENDED SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>65293</td>
<td>1/2&quot;</td>
<td>115°F to 180°F</td>
<td>11/16&quot; x 3-1/4&quot;</td>
<td>25 GPM</td>
<td>L-65140</td>
</tr>
<tr>
<td>65127</td>
<td>3/4&quot;</td>
<td>115°F to 180°F</td>
<td>11/16&quot; x 6&quot;</td>
<td>40 GPM</td>
<td></td>
</tr>
<tr>
<td>65128</td>
<td>1&quot;</td>
<td>115°F to 180°F</td>
<td>11/16&quot; x 10&quot;</td>
<td>55 GPM</td>
<td>L-65141</td>
</tr>
<tr>
<td>65146</td>
<td>1-1/4&quot;</td>
<td>75°F to 135°F</td>
<td>11/16&quot; x 16-1/4&quot;</td>
<td>75 GPM</td>
<td></td>
</tr>
<tr>
<td>65511</td>
<td>1/2&quot;</td>
<td>75°F to 135°F</td>
<td>11/16&quot; x 10&quot;</td>
<td>25 GPM</td>
<td>L-65280</td>
</tr>
<tr>
<td>65253</td>
<td>3/4&quot;</td>
<td>75°F to 135°F</td>
<td>11/16&quot; x 10&quot;</td>
<td>40 GPM</td>
<td></td>
</tr>
<tr>
<td>65254</td>
<td>1&quot;</td>
<td>75°F to 135°F</td>
<td>11/16&quot; x 10&quot;</td>
<td>55 GPM</td>
<td>L-67438</td>
</tr>
<tr>
<td>65255</td>
<td>1-1/4&quot;</td>
<td>75°F to 135°F</td>
<td>11/16&quot; x 10&quot;</td>
<td>75 GPM</td>
<td></td>
</tr>
<tr>
<td>66100</td>
<td>1-1/2&quot; ASME</td>
<td>75°F to 115°F</td>
<td>11/16&quot; x 43&quot;</td>
<td>90 GPM</td>
<td></td>
</tr>
<tr>
<td>67173</td>
<td>2&quot; ASME</td>
<td>75°F to 115°F</td>
<td>11/16&quot; x 43&quot;</td>
<td>150 GPM</td>
<td>L-67808</td>
</tr>
</tbody>
</table>

Working pressure to 150 PSI Maximum. *For additional protection of the bulb well stem, use the next longer bulb well.

ADJUSTMENT: 1/2" to 1-1/4" valves can be adjusted with a screwdriver, 1-1/2" and 2" have a 1/2" square shaft. Turn the adjusting screw clockwise to decrease opening temperature; and counterclockwise to increase opening temperature. Valves are not calibrated, so final desired temperature setting must be established experimentally. Valve is fully open 36°F above opening point.

Water Valves

<table>
<thead>
<tr>
<th>VALVE SIZE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>APPROXIMATE SHIP WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>3-1/4</td>
<td>7</td>
<td>3-3/8</td>
<td>2-1/32</td>
<td>1-1/2</td>
<td>13/32</td>
<td>4.3 lbs.</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>3-9/16</td>
<td>7-29/64</td>
<td>3-51/64</td>
<td>2-1/32</td>
<td>1-3/4</td>
<td>5.8 lbs.</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>4-27/32</td>
<td>10-13/16</td>
<td>5-31/64</td>
<td>2-5/8</td>
<td>2-3/8</td>
<td>10 lbs.</td>
<td></td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>4-55/64</td>
<td>10-37/64</td>
<td>5-43/64</td>
<td>2-5/8</td>
<td>2-3/8</td>
<td>12 lbs.</td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>5-5/16</td>
<td>10-37/64</td>
<td>5-43/64</td>
<td>2-5/8</td>
<td>2-3/8</td>
<td>18 lbs.</td>
<td></td>
</tr>
<tr>
<td>2&quot;</td>
<td>6-5/8</td>
<td>12-33/64</td>
<td>6-15/32</td>
<td>3-1/2</td>
<td>See Flange Below</td>
<td>27 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Flange Specifications - Inches

<table>
<thead>
<tr>
<th>VALVE SIZE</th>
<th># OF BOLT HOLES</th>
<th>BOLT HOLE SIZE</th>
<th>BOLT CIRCLE</th>
<th>FLANGE DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>4</td>
<td>5/8</td>
<td>3-7/8</td>
<td>5</td>
</tr>
<tr>
<td>2&quot;</td>
<td></td>
<td>3/4</td>
<td>4-3/4</td>
<td>6</td>
</tr>
</tbody>
</table>

Standard temperature elements are furnished with 6" capillary. Longer capillary lengths not available. Valve Disc: Buna N in brass disc retainer.
Bulb Wells

65187 Half Coupling - Mount to Reservoir. For use with all bulb wells shown above.

All stock valves are supplied with a drilled and tapped internal by-pass in the regulator body. A solid plug is installed in this hole for 100% shut-off. A drilled orifice plug is packed in an envelope with each valve for field installation, if continuous minimum flow is required.