DIAPHRAGM VALVE 4" - 8" MODEL 2000

SOLENOID

NORMALLY CLOSED VALVE

SPECIFICATIONS:

Operating Pressure: 2 to 200 PSI
Voltage Operating Range: 22-28 VAC
Low Current Requirement: 0.40 A at 24 VAC
Assembly: Valve comes fully assembled

MATERIALS

End Connections: Flanged 150 ANSI
Stem, Nut & Spring: Stainless Steel
Diaphragm: Nylon-Reinforced Buna-N
Disc: Buna-N
Disc Retainer: Cast Iron
Diaphragm Washer: Cast Iron
Disc Guide Seat: Bronze
Cover Bearing: Bronze

DIMENSIONS & WEIGHTS (NOMINAL)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MODEL NO.</th>
<th>A (IN)</th>
<th>B (IN)</th>
<th>C(IN)</th>
<th>D (IN)</th>
<th>APPROX SHIP WT IN LBS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>2000P</td>
<td>10.62</td>
<td>4.50</td>
<td>15.00</td>
<td>15.50</td>
<td>140</td>
</tr>
<tr>
<td>6&quot;</td>
<td>2000Q</td>
<td>13.38</td>
<td>5.50</td>
<td>20.00</td>
<td>19.75</td>
<td>280</td>
</tr>
<tr>
<td>8&quot;</td>
<td>2000R</td>
<td>16.00</td>
<td>6.75</td>
<td>25.38</td>
<td>24.00</td>
<td>500</td>
</tr>
</tbody>
</table>

PRESSURE LOSS (PSI) AT VARIOUS FLOWRATES

<table>
<thead>
<tr>
<th>SIZE</th>
<th>FLOWRATE (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>1.0 2.3 4.0 6.3 9.0 12.3 16.0 20.3</td>
</tr>
<tr>
<td>6&quot;</td>
<td>USE 1 PSI 0.8 1.2 1.7 2.3 3.0 3.8 4.7 5.7 6.8 8.0 9.3 10.6 12.1 13.7 15.3 17.1 18.9 20.8</td>
</tr>
<tr>
<td>8&quot;</td>
<td>DROP IN THIS RANGE 0.8 1.1 1.4 1.7 2.0 2.4 2.9 3.3 3.8 4.3 4.9 5.5 6.1 6.7 7.4 8.2 15.2 16.2 17.3 18.4 19.5</td>
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APPLICATIONS

The 2000 Solenoid Control Valve offers maximum performance combined with the reliability you have come to expect from Griswold Controls. Intended for use in medium to large irrigation systems, the valve is ideally suited for use as either an On-Off Solenoid Valve or as a General Purpose Master Valve.
MODEL NUMBER SELECTION

Select a size (4"=P, 6"=Q, 8"=R)

DESCRIPTION:

- Normally Closed: Energize Solenoid to Open Valve, De-Energize to Close Valve
- On/Off Solenoid Control Valve
- Watertight Epoxy Molded Solenoid Coil
- Slow Closing
- "No Surge or Hammer" Operation
- Will Throttle Against Flow Without Chatter
- Diaphragm-Disc Assembly Guided by Stainless Steel Stem in all Positions
- Completely Serviceable Without Removing Valve Body from the System

THEORY OF OPERATION

FULL OPEN OPERATION
When pressure in the cover chamber is relieved to a zone of lower pressure, the line pressure at the valve inlet opens the valve, allowing full flow.

TIGHT CLOSING OPERATION
When pressure from the valve inlet is applied to the cover chamber, the valve closes drip-tight.