DIAPHRAGM VALVE 4" - 8" MODEL 2265

PRESSURE REDUCING/SURGE ANTICIPATION SOLENOID

NORMALLY OPEN VALVE

SPECIFICATIONS:

- Operating Pressure: 2 to 200 PSI
- Regulating Range: 5 to 125 PSI
- Voltage Operating Range: 22-28 VAC
- Low Current Requirement: 0.10 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
- Optional: Purple Handle for Reclaimed Water
- Optional: Epoxy Coating

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>2265P</td>
<td>10.62</td>
<td>4.50</td>
<td>15.00</td>
<td>17.50</td>
<td>140</td>
</tr>
<tr>
<td>6&quot;</td>
<td>2265Q</td>
<td>13.38</td>
<td>5.50</td>
<td>20.00</td>
<td>21.75</td>
<td>280</td>
</tr>
<tr>
<td>8&quot;</td>
<td>2265R</td>
<td>16.00</td>
<td>6.75</td>
<td>25.38</td>
<td>26.00</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></td>
<td>100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 3000 3100 3200 3300 3400</td>
</tr>
<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>
</tr>
</tbody>
</table>

APPLICATIONS

The 2265 Pressure Reducing Surge Anticipation Solenoid valve offers maximum performance combined with the reliability you have come to expect from Griswold Controls. The valve is intended for use in medium to large irrigation systems and can be used on slopes, banks and hilly terrain with no performance loss. The 2250 is designed as a normally open master valve for systems with high supply pressure and fast-acting valves. The 2265_R can be used with Reclaimed Water.
DIAPHRAGM VALVE 4" - 8" MODEL 2265
PRESSURE REDUCING/SURGE ANTICIPATION SOLENOID

MODEL NUMBER SELECTION

Select a size (4"=P, 6"=Q, 8"R)
Add an “R” for Reclaimed Water
Add an “E” for Epoxy

DESCRIPTION:

- Normally Open: Energize Solenoid to Close Valve, De-Energize to Open Valve
- On/Off Solenoid Control Valve
- Watertight Epoxy Molded Solenoid Coil
- Slow Closing
- Surges Above Setting Are Automatically Relieved
- "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.

PRESSURE REDUCTION
When the pressure in the system increases, the regulating pilot restricts the amount of fluid leaving the upper chamber. This causes the diaphragm to decrease the flow through area of the valve, reducing pressure system to its preset point.

PRESSURE COMPENSATION
When the flow demand in the system increases, the regulating pilot allows more fluid to leave the upper chamber. This causes the diaphragm to increase the flow through area of the valve, raising pressure system to its preset point.

SURGE ANTICIPATION
In the event of a surge, the regulating pilot restricts the amount of pressure to the upper chamber, closing the valve. To prevent Hammer, a relief pilot opens to relieve the surge pressure.