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>2160P</td>
<td>16.00</td>
<td>8.75</td>
<td>25.38</td>
<td>24.00</td>
<td>140</td>
</tr>
<tr>
<td>6&quot;</td>
<td>2160Q</td>
<td>16.00</td>
<td>8.75</td>
<td>25.38</td>
<td>24.00</td>
<td>280</td>
</tr>
<tr>
<td>8&quot;</td>
<td>2160R</td>
<td>16.00</td>
<td>8.75</td>
<td>25.38</td>
<td>24.00</td>
<td>500</td>
</tr>
</tbody>
</table>

PRESSURE LOSS (PSI) AT VARIOUS FLOWRATES

| SIZE | FLOWRATE (GPM) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 |
|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 4"   | 1.0           | 2.3 | 4.0 | 6.3 | 9.0 | 12.3 | 16.0 | 20.3 | CONSULT WITH FACTORY |
| 6"   | 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 | IN THIS RANGE |
| 8"   | 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 | |

APPLICATIONS

The 2160 Solenoid valve offers maximum performance combined with the reliability you have come to expect from Griswold Controls. The valve is ideally suited for use medium to large irrigation systems. The 2160 is designed for use as a normally-open master valve.
DIAPHRAGM VALVE 4" - 8" MODEL 2160
SOLENOID

MODEL NUMBER SELECTION

```
2 1 6 0
```

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

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
- "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.