STAINLESS STEEL Solenoid Valves

**Type K**

**Full Port Normally Closed - 1/2” to 3” Pipe Size**

(NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN)

**Operation:** Valve opens when energized and closes when de-energized. When the coil is energized the pilot valve opens, relieving the pressure above the piston, which is then lifted from its seat by the plunger. Upon de-energizing the coil, a spring closes the pilot valve and opens a bleed passageway to permit pressure to build above the piston and seat it.

**Construction:** Wetted parts - No Copper Bearing Alloys in contact with fluid

- Valve Body* – 304 Stainless Steel Globe Pattern
- Piston* – 303 Stainless Steel
- Coil Enclosure – Malleable or Cast Iron, 1/2” NPS conduit conn.
- Plunger* – 430 Stainless Steel
- Pilot Valve* – 303 Stainless Steel
- Bonnet Tube* – 304 Stainless Steel
- Spring* – Inconel
- Body Seal* – Non Asbestos Gasket
- Orifice Seal* – Glass Filled Teflon®

**Application:** To control the flow of Corrosive Fluids, Deionized Water, Condensate, Ammonias, Vegetable Oils, Fuel Oils, Cryogenics**, and Flammable Liquids. Cryogenic fluids include Liquid Oxygen (-297°F), Liquid Argon (-303°F) and Liquid Nitrogen (-320°F). Valve operates from zero to maximum differential pressure indicated in table. Valve must be mounted in horizontal pipe with solenoid enclosure vertical and on top.

**Cleaning** – Cryogenic valves are degreased and cleaned to keep them free of moisture.
- Oxygen valves are also “black light” tested.

**For Steam Applications**

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<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Watts AC</th>
<th>Watts DC</th>
<th>Ship Wt. Lbs.*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>5-7/8</td>
<td>3-1/4</td>
</tr>
<tr>
<td>3/4</td>
<td>10</td>
<td>8</td>
<td>3-1/2</td>
</tr>
<tr>
<td>1</td>
<td>13</td>
<td>8-7/8</td>
<td>3-1/2</td>
</tr>
<tr>
<td>1 1/2</td>
<td>17</td>
<td>10</td>
<td>4-1/2</td>
</tr>
<tr>
<td>2</td>
<td>21</td>
<td>11</td>
<td>4-7/8</td>
</tr>
<tr>
<td>3</td>
<td>26</td>
<td>12</td>
<td>5-3/8</td>
</tr>
</tbody>
</table>

**Dimensions in Inches**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>A+</th>
<th>B</th>
<th>C</th>
<th>D NPT</th>
<th>D (Flanged)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150#</td>
<td>6</td>
<td>6-1/2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300#</td>
<td>6</td>
<td>6-1/2</td>
<td></td>
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</tbody>
</table>

**For Options and Accessories**

See pages 26 & 27. Strainers are recommended for use with solenoid valves (see page 19).

When ordering please supply:
- Pipe Size
- Valve Type
- Voltage (AC or DC)
- Hertz
- Fluid
- Fluid Temperature
- Max. Diff. Pressure
- Optional Features

**Shipping Weights** shown here apply to Threaded Ends Only (except 3” which are Flanged Only)

**For Flanged Ends** contact factory for complete weight and dimensions

**3” STAINLESS STEEL VALVES are SUPPLIED with FLANGED ENDS ONLY**

* Shipping weights and Dimension ‘A’ apply to NPT Ends

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