PILOT OPERATED PISTON TYPE STEAM VALVE
(Normally Close Open)
**SPECIFICATIONS**

Port:

End Connection: Screwed / Flange

Body Material: SS ASTM A351 Grade CF8 / CF8M

Seal & 'O' Ring: PTFE + Silicon / Viton

Media Temp: -10° C to 180° C

Circumstance Temp: -10° C to 70° C

Media: Steam, Hot Water, Hot Fluid, Water Oil

Main Features: Internal Parts are in superior corrosion resistance steel, (Equivalent to SS316L) Suitable for Food Industries, Pharmaceuticals, Chemical application & Highly corrosive environment.

Operating Voltage: 24AC

Power Consumption: 7W

Coil Features: High Reliability Unaffected by Voltage Surges. Easy coil changes coil lockable in 4X90 position or freely movable in between as require.

Coil Housing: Epoxy square coil, Metallic round enclosure, IP-67 Flame proof enclosure, IP-68 Weather proof enclosure.

Optional Feature: 90% Power saver series also available, Manual Override, Water hammering reducer also available to avoid water hammer forces.

Other Specification Data: Available on Request

**NOTE:** Use of filter in the inlet port is recommended.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Body Material</th>
<th>Pipe (Inch)</th>
<th>Orifice (mm)</th>
<th>Min. Operating Pressure Kg/cm²</th>
<th>Max. Operating Pressure Kg/cm²</th>
<th>Seal &amp; Diaphragm Material</th>
<th>Flow Factor Cv m³ / hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCP29</td>
<td>CF8 / CF8M</td>
<td>½&quot;</td>
<td>17</td>
<td>1.5</td>
<td>12</td>
<td>PTFE</td>
<td>4</td>
</tr>
<tr>
<td>HCP39</td>
<td>CF8 / CF8M</td>
<td>¾&quot;</td>
<td>20</td>
<td>1.5</td>
<td>12</td>
<td>PTFE</td>
<td>7</td>
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<tr>
<td>HCP49</td>
<td>CF8 / CF8M</td>
<td>1&quot;</td>
<td>25</td>
<td>1.5</td>
<td>12</td>
<td>PTFE</td>
<td>12</td>
</tr>
<tr>
<td>HCP59 / HCP69</td>
<td>CF8 / CF8M</td>
<td>1¼&quot; / 1½&quot;</td>
<td>36</td>
<td>1.5</td>
<td>12</td>
<td>PTFE</td>
<td>23</td>
</tr>
<tr>
<td>HCP99</td>
<td>CF8 / CF8M</td>
<td>2&quot;</td>
<td>48</td>
<td>1.5</td>
<td>12</td>
<td>PTFE</td>
<td>38</td>
</tr>
<tr>
<td>HCP2A</td>
<td>CF8 / CF8M</td>
<td>½&quot;</td>
<td>17</td>
<td>1.5</td>
<td>40</td>
<td>PTFE</td>
<td>3.50</td>
</tr>
<tr>
<td>HCP3A</td>
<td>CF8 / CF8M</td>
<td>¾&quot;</td>
<td>20</td>
<td>1.5</td>
<td>40</td>
<td>PTFE</td>
<td>3.30</td>
</tr>
<tr>
<td>HCP4A</td>
<td>CF8 / CF8M</td>
<td>1&quot;</td>
<td>25</td>
<td>1.5</td>
<td>40</td>
<td>PTFE</td>
<td>8.30</td>
</tr>
<tr>
<td>HCP5A / HCP6A</td>
<td>CF8 / CF8M</td>
<td>1¼&quot; / 1½&quot;</td>
<td>36</td>
<td>1.5</td>
<td>40</td>
<td>PTFE</td>
<td>17</td>
</tr>
<tr>
<td>HCP8A</td>
<td>CF8 / CF8M</td>
<td>2&quot;</td>
<td>48</td>
<td>1.5</td>
<td>40</td>
<td>PTFE</td>
<td>31</td>
</tr>
</tbody>
</table>

All dimensions are in mm

In normally open valve dimension B&C will increase up to 8mm.
**SOLENOID VALVE MODEL IDENTIFICATION CHART**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SEAL MATERIAL</th>
<th>PORT SIZE</th>
<th>PRESSURE RANGE (MIN-MAX)</th>
<th>PLUNGER DIA</th>
<th>VALVE POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>NITRILE</td>
<td>0 1/8&quot;</td>
<td>0 0 - 350 mbar</td>
<td>Blank</td>
<td>NC</td>
</tr>
<tr>
<td>M</td>
<td>EPDM</td>
<td>1 1/4&quot;</td>
<td>1 0 - 500 mbar</td>
<td>0</td>
<td>10 mm</td>
</tr>
<tr>
<td>J</td>
<td>VITON</td>
<td>2 1/2&quot;</td>
<td>2 0 - 2 bar</td>
<td>2</td>
<td>16 mm</td>
</tr>
<tr>
<td>H</td>
<td>SILICONE</td>
<td>3 3/4&quot;</td>
<td>3 0 - 7 bar</td>
<td>3</td>
<td>18 mm</td>
</tr>
<tr>
<td>D</td>
<td>NEOPRINE</td>
<td>4 1&quot;</td>
<td>4 0 - 10 bar</td>
<td>4</td>
<td>8 mm</td>
</tr>
<tr>
<td>T</td>
<td>HYTREL</td>
<td>5 1 1/4&quot;</td>
<td>5 0 - 16 bar</td>
<td>5</td>
<td>28 mm</td>
</tr>
<tr>
<td>F</td>
<td>PTFE + EPDM</td>
<td>6 1 1/2&quot;</td>
<td>6 0.3 - 10 bar</td>
<td>6</td>
<td>30 mm</td>
</tr>
<tr>
<td>Y</td>
<td>PTFE + VITON</td>
<td>7 3/8&quot;</td>
<td>7 0.5 - 8.5 bar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>PTFE + SILICONE</td>
<td>8 2&quot;</td>
<td>8 0.5 - 12 bar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>SPL. VITON</td>
<td>9 2 1/2&quot;</td>
<td>9 1.5 - 12 bar</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pressures:**
- 0 - 350 mbar
- 0 - 500 mbar
- 0 - 2 bar
- 0 - 7 bar
- 0 - 10 bar
- 0 - 16 bar
- 0 - 3 bar
- 0 - 12 bar

**Contact Materials:**
- NITRILE
- EPDM
- VITON
- SILICONE
- NEOPRINE
- HYTREL
- PTFE + EPDM
- PTFE + VITON
- PTFE + SILICONE
- SPL. VITON

**Body Material:**
- CF8 / S304
- CF8M / S316
- CF8M / S316L
- BRASS
- ALUMINIUM
- NYLON
- PLASTIC

**Port Size:**
- 1/8"
- 1/4"
- 1/2"
- 3/4"
- 1"
- 1 1/4"
- 1 1/2"
- 3/8"
- 1/2"
- 2"
- 2 1/2"
- 3"
- 4"
- 6"

**Body Connection:**
- Blank BSP
- N NPT
- T TRI-CLAMP
- C CUSTOMISED MOUNTING

**McN8D3F**
2" UMD DIAPHRAGM SOLENOID VALVE WITH FLANGE (0 - 4KG) (18MM)