**HG-PDA PILOTED DIRECTIONAL VALVE, 4 WAY NORMALLY CLOSED**

**DESCRIPTION**
10 size, 7/8-14 thread, “Delta” series, 4 way piloted directional valve.

**OPERATION**
The HG-PDA in neutral (un-piloted), allows flow between (2) and (1) bi-directionally, while blocking at (3). The spring chamber is constantly vented at (1). On attainment of a predetermined pressure at (4), the cartridge redirects flow from (2) to (1), to (2) to (3).

Note: that the backpressure value at (1) must be added to the selected pressure setting to determine pilot pressure necessary to shift valve to second position.

**FEATURES**
- Hardened parts for long life.
- Industry common cavity

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**HYDRAULIC SYMBOL**

-0.030 to 0.060 diameter orifice recommended beneath port (4).

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**PERFORMANCE**

Actual Test Data (Cartridge Only)

<table>
<thead>
<tr>
<th>Flow (GPM)</th>
<th>Pressure Drop (PSI)</th>
<th>Flow (LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>4</td>
<td>40</td>
<td>40</td>
</tr>
</tbody>
</table>

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**VALVE SPECIFICATIONS**

- Nominal Flow: 10 GPM (38 LTR/M)
- Rated Operating Pressure: 4000 PSI (276 bar)
- Typical Internal Leakage (150 SSU): 8 cu in/min (82 ml/min)
- Viscosity Range: 36 to 3000 SSU (3 to 647 cSt)
- Filtration: ISO 18/16/13
- Media Operating Temp. Range: -40° to 250°F (-40° to 120°C)
- Weight: 0.63 lbs (.28 kg)
- Operating Fluid Media: General Purpose Hydraulic Fluid
- Cartridge Torque Requirements: 40 ft-lbs (40.6 Nm)
- Cavity: DELTA 4W
- Cavity Form Tool (Finishing): 40500002
- Seal Kit: 21191214

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