DE-S2C PILOT OPERATED POPPET, 2 WAY NORMALLY OPEN

DESCRIPTION
10 size, 7/8-14 thread, “Delta” series, solenoid operated, 2 way normally open, pilot operated poppet valve with free reverse flow energized.

OPERATION
When de-energized the DE-S2C allows flow to pass from (1) to (2), but restricts flow from (2) to (1).
When energized the valve blocks flow from (1) to (2) but allows free reverse flow from (2) to (1).

OPERATION OF MANUAL OVERRIDE OPTION: to override, turn the manual override screw clockwise. To release turn the manual override screw counterclockwise.

FEATURES
• Hardened parts for long life.
• Efficient wet-armature construction.
• Cartridges are voltage interchangeable.
• Manual override option.
• Industry common cavity.
• Unitized, molded coil design.
• Continuous duty rated solenoid.
• Optional coil voltages and terminations.
• Optional "I" Coil: Weatherproof, Thermal Shock, Immersion Safe.

HYDRAULIC SYMBOL

PERFORMANCE
Actual Test Data (Cartridge Only)

<table>
<thead>
<tr>
<th>Flow (GPM)</th>
<th>Pressure Drop (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>30</td>
<td>15</td>
</tr>
<tr>
<td>40</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow (LPM)</th>
<th>Pressure Drop (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

VALVE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Flow</td>
<td>15 GPM (57 LPM)</td>
</tr>
<tr>
<td>Rated Operating Pressure</td>
<td>3500 PSI (241 bar)</td>
</tr>
<tr>
<td>Typical Internal Leakage (150 SSU)</td>
<td>0-5 drops/min</td>
</tr>
<tr>
<td>Viscosity Range</td>
<td>36 to 3000 SSU (3 to 647 cSt)</td>
</tr>
<tr>
<td>Filtration</td>
<td>ISO 18/16/13</td>
</tr>
<tr>
<td>Media Operating Temp. Range</td>
<td>-40° to 250°F (-40° to 120°C)</td>
</tr>
<tr>
<td>Weight</td>
<td>.29 lbs (.13 kg)</td>
</tr>
<tr>
<td>Operating Fluid Media</td>
<td>General Purpose Hydraulic Fluid</td>
</tr>
<tr>
<td>Cartridge Torque Requirements</td>
<td>30 ft-lbs (40.6 Nm)</td>
</tr>
<tr>
<td>Coil Nut Torque Requirements</td>
<td>4-6 ft-lbs (5.4-8.1 Nm)</td>
</tr>
<tr>
<td>Cavity</td>
<td>DELTA 2W</td>
</tr>
<tr>
<td>Cavity Tools Kit</td>
<td>(form tool, reamer, tap)</td>
</tr>
<tr>
<td>Seal Kit</td>
<td>21191200</td>
</tr>
</tbody>
</table>

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
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**DIMENSIONS**

![Diagram of SOLENOID OPERATED DIRECTIONAL CONTROLS]

**ORDERING INFORMATION**

**OPTIONS**

- Buna Standard 00
- Viton Standard V0
- Buna, Override, Detent 0M
- Viton, Override, Detent VM
- Buna, Override, Knob 0K
- Viton, Override, Knob VK
- Buna, Screen A0
- Viton, Screen W0
- Buna, Screen, Override B2
- Viton, Screen, Override V2
- Buna, Screen, Override, Knob B5
- Viton, Screen, Override, Knob V5

**DECISIONS**

- Blank Without Body
- N 3/8 NPTF Ports
- S #8 SAE Ports

**VOLTAGE**

- 06 6 VDC
- 12 12 VDC
- 24 24 VDC
- 36 36 VDC
- 48 48 VDC
- 25 24 VAC
- 11 120 VAC
- 22 220 VAC
- 44 440 VAC

**IMMERSION PROOF “D” TYPE**

- IA “F” Coil AMP Superseal - Integral
- ID “F” Coil Deutsch - Integral DT04-2P
- IJ “F” Coil AMP Jr. Timer - Integral
- IM “F” Coil Metri-Pack - Integral

**DE-S2C**

- Approximate Coil Weight: .74 lbs (.33 kg)

**Note:** use screen only if flow direction is from (1) to (2)

**“D” COIL TERMINATION**

(All DC Except as Noted)

- DL Double Lead
- DT Deutsch on Leads DT04-2P
- ML Metri-Pack on Leads
- PL Packard on Leads
- WL Weatherpack on Leads
- SS Single Spade
- DS Double Spade
- HC DIN 43650 (Hirschmann) - (AC&DC)
- CL Conduit Lead - (AC Only)
- DI Deutsch - Integral DT04-2P

**BODY WEIGHT:** .47 lbs (21 kg)

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