TT-S2B  PILOT OPERATED POPPET, 2 WAY NORMALLY CLOSED

DESCRIPTION
12 size, 1 1/16-12 thread, "Tecnord" series, solenoid operated, 2 way normally closed, pilot operated poppet valve with reverse flow energized and de-energized.

OPERATION
When de-energized the TT-S2B blocks flow from (1) to (2) and allows reverse flow from (2) to (1). When energized the valve allows flow from (1) to (2) and from (2) to (1).

OPERATION OF MANUAL OVERRIDE OPTION: to override, pull knob out. On the detented version, after pulling knob out twist 180 degrees and release. The valve will remain in that position.

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.

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>25</td>
<td>25</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>125</td>
<td>125</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>25</td>
<td>15</td>
</tr>
<tr>
<td>50</td>
<td>30</td>
</tr>
<tr>
<td>75</td>
<td>45</td>
</tr>
<tr>
<td>100</td>
<td>60</td>
</tr>
<tr>
<td>125</td>
<td>75</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>25</td>
<td>25</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>125</td>
<td>125</td>
</tr>
</tbody>
</table>

| Port 1 to 2 (eng) | Port 2 to 1 (eng) | Port 2 to 1 (de-eng) |

VALVE SPECIFICATIONS

- Nominal Flow: 25 GPM (95 LPM)
- Rated Operating Pressure: 3000 PSI (207 bar)
- Typical Internal Leakage (150 SSU): 0-5 drops/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: .49 lbs (.22 kg)
- Operating Fluid Media: General Purpose Hydraulic Fluid
- Cartridge Torque Requirements: 70 ft-lbs (94.9 Nm)
- Coil Nut Torque Requirements: 4-6 ft-lbs (5.4-8.1 Nm)
- Cavity: TECNORD 2W
- Cavity Tools Kit (form tool, reamer, tap): 40500032
- Seal Kit: 21191300

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.
**DIMENSIONS**

- **SOLENOID OPERATED DIRECTIONAL CONTROLS**

**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.

**ORDERING INFORMATION**

**OPTIONS**

- Buna Standard: 00
- Viton Standard: V0
- Buna, Override, Detent: 0M
- Viton, Override, Detent: VM
- Buna, Screen: A0
- Viton, Screen: W0
- Buna, Override, Non-Detent: B1
- Viton, Override, Non-Detent: V1
- Buna, Screen, Override, Non-Detent: B3
- Viton, Screen, Override, Non-Detent: V3
- Buna, Screen, Override, Detent: B4
- Viton, Screen, Override, Detent: V4

**BODIES**

- Blank: Without Body
- S: #12 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

**“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

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

**BODY WEIGHT: 3.7 lbs (1.7 kg)**

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

**TT-S2B**

**DELTA POWER CO**

**DELTA POWER CO**

**TECNORD**