PB-S2B  PILOT OPERATED POPPET, 2 WAY NORMALLY CLOSED

DESCRIPTION
8 size, 3/4-16 thread, “Power” series, solenoid operated, 2 way normally closed, pilot operated poppet valve with reverse flow energized and de-energized.

OPERATION
When de-energized the PB-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 (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)

VALVE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Flow</td>
<td>8 GPM (30 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>.20 lbs (.09 kg)</td>
</tr>
<tr>
<td>Operating Fluid Media</td>
<td>General Purpose Hydraulic Fluid</td>
</tr>
<tr>
<td>Cartridge Torque Requirements</td>
<td>25 ft-lbs (34 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>POWER 2W</td>
</tr>
<tr>
<td>Cavity Tools Kit (form tool, reamer, tap)</td>
<td>40500005</td>
</tr>
<tr>
<td>Seal Kit</td>
<td>21191100</td>
</tr>
</tbody>
</table>

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SOLENOID OPERATED DIRECTIONAL CONTROLS

DIMENSIONS

MANUAL OVERRIDE

STANDARD

SEE COIL DATA FOR TERMINATIONS

ORDERING INFORMATION

PB-S2B

OPTIONS

Buna Standard
Viton Standard
Buna, Override, Detent
Viton, Override, Detent
Buna, Screen
Viton, Screen
Buna, Override, Non-Detent
Viton, Override, Non-Detent
Buna, Screen, Override, Non-Detent
Viton, Screen, Override, Non-Detent
Buna, Screen, Override, Detent
Viton, Screen, Override, Detent

BODIES

Blank
Without Body
1/4 NPTF Ports
#6 SAE Ports

VOLTAGE

6 VDC
12 VDC
24 VDC
36 VDC
48 VDC
24 VAC
120 VAC
220 VAC
440 VAC

IMMERSION PROOF "P" TYPE

"I" Coil AMP Superseal - Integral
"I" Coil Deutsch - Integral DT04-2P
"I" Coil AMP Jr. Timer - Integral
"I" Coil Metri-Pack - Integral

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

"P" 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&DCl
CL Conduit Lead - (AC Only)
DI Deutsch - Integral DT04-2P

Approximate Coil Weight: .42 lbs (.19 kg)

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