

**TT-S2A PILOT OPERATED POPPET, 2 WAY NORMALLY CLOSED**
**DESCRIPTION**

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

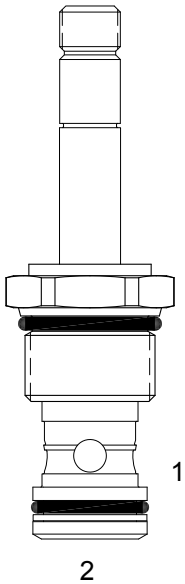
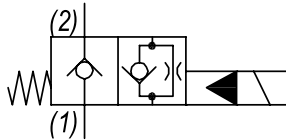
**OPERATION**

When de-energized the TT-S2A 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 restricts flow from (2) to (1).

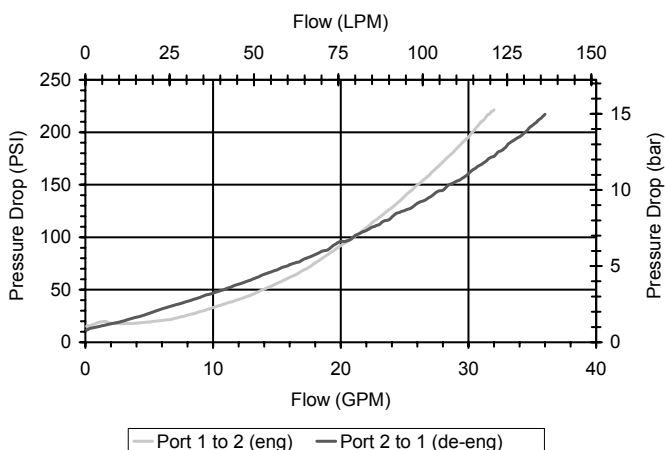
**OPERATION OF MANUAL OVERRIDE OPTION:** to override, pull knob out. On the detented version, after pulling knob out twist 180 degrees and release. The valve will remain in that position.

**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.
- Optional "I" Coil: Weatherproof, Thermal Shock, Immersion Safe.


**HYDRAULIC SYMBOL**

**PERFORMANCE**

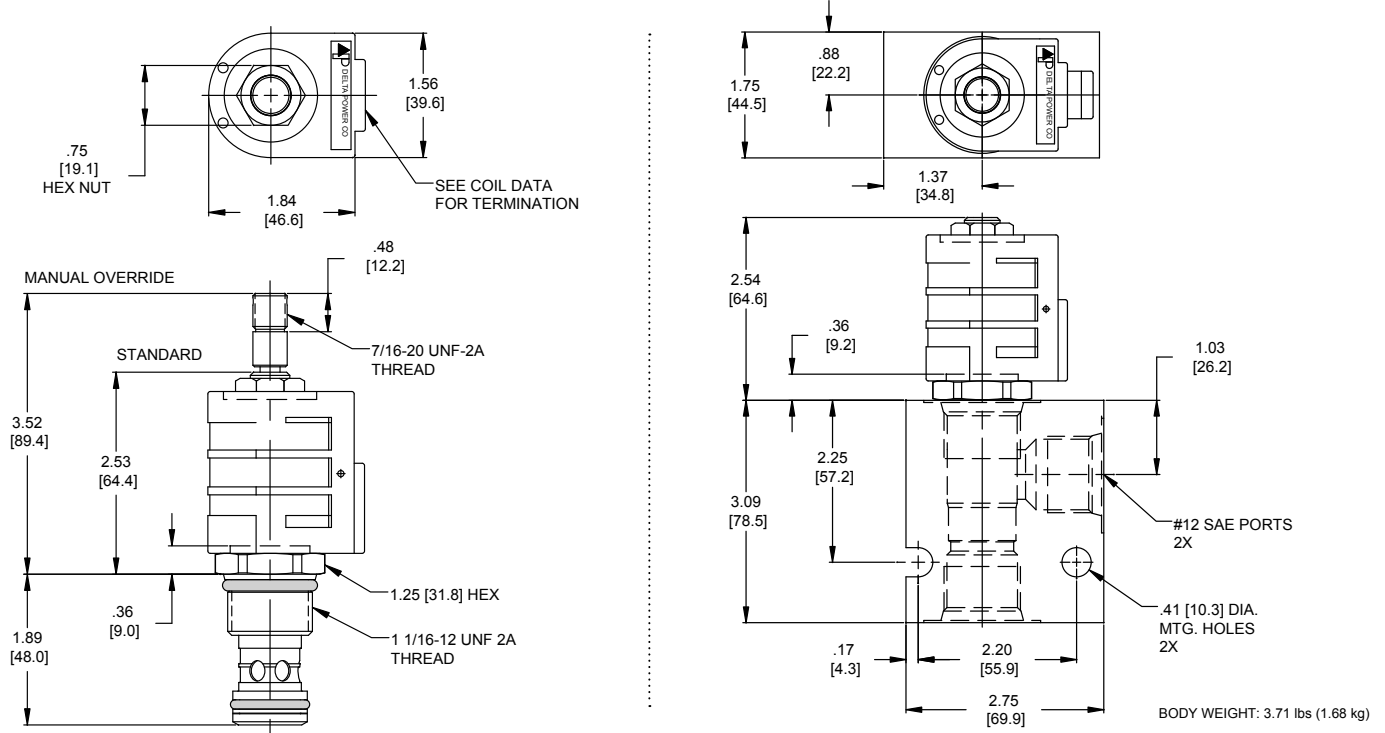
Actual Test Data (Cartridge Only)


**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	TWELVE 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**



**ORDERING INFORMATION**

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

**TT-S2A**

<p><b>OPTIONS</b></p> <p>Buna Standard <b>00</b></p> <p>Viton Standard <b>V0</b></p> <p>Buna, Override, Detent <b>0M</b></p> <p>Viton, Override, Detent <b>VM</b></p> <p>Buna, Screen <b>A0</b></p> <p>Viton, Screen <b>W0</b></p> <p>Buna, Override, Non-Detent <b>B1</b></p> <p>Viton, Override, Non-Detent <b>V1</b></p> <p>Buna, Screen, Override, Non-Detent <b>B3</b></p> <p>Viton, Screen, Override, Non-Detent <b>V3</b></p> <p>Buna, Screen, Override, Detent <b>B4</b></p> <p>Viton, Screen, Override, Detent <b>V4</b></p>	<p><b>BODIES</b></p> <p>Blank Without Body</p> <p><b>S</b> #12 SAE Ports</p>	<p><b>VOLTAGE</b></p> <p><b>06</b> 6 VDC</p> <p><b>12</b> 12 VDC</p> <p><b>24</b> 24 VDC</p> <p><b>36</b> 36 VDC</p> <p><b>48</b> 48 VDC</p> <p><b>25</b> 24 VAC</p> <p><b>11</b> 115 VAC</p> <p><b>22</b> 220 VAC</p> <p><b>44</b> 440 VAC</p>
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**Note: use screen only if flow direction is from (1) to (2)**

**“D” COIL TERMINATION**  
(All DC Except as Noted)

<p><b>DL</b> Double Lead</p> <p><b>DT</b> Deutsch on Leads DT04-2P</p> <p><b>ML</b> Metri-Pack on Leads</p> <p><b>PL</b> Packard on Leads</p> <p><b>WL</b> Weatherpack on Leads</p>	<p><b>SS</b> Single Spade</p> <p><b>DS</b> Double Spade</p> <p><b>HC</b> DIN 43650 (Hirschmann) - (AC&amp;DC)</p> <p><b>CL</b> Conduit Lead - (AC Only)</p> <p><b>DI</b> Deutsch - Integral DT04-2P</p>	<p><b>IMMERSION PROOF “D” TYPE</b></p> <p><b>IA</b> “I” Coil AMP Superseal - Integral</p> <p><b>ID</b> “I” Coil Deutsch - Integral DT04-2P</p> <p><b>IJ</b> “I” Coil AMP Jr. Timer - Integral</p> <p><b>IM</b> “I” Coil Metri-Pack - Integral</p>
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W/44/12-2022

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