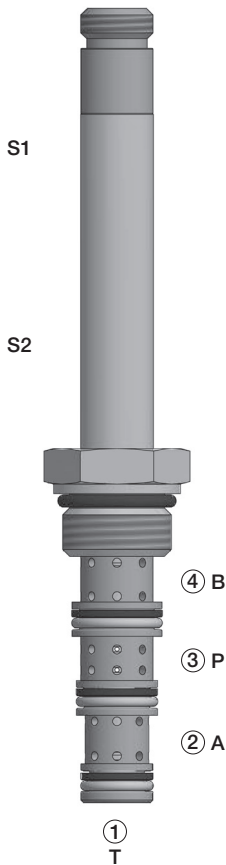
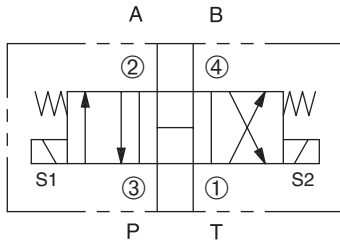


# DSV-080-340

Four-Way, Three-Position, Open Center  
Spool-Type Solenoid Valve

## SERIES 8



## DESCRIPTION

A cartridge valve designed as a three position, four-way solenoid valve.

## OPERATION

When de-energized, the valve allows flow at all ports. When the upper solenoid (S1) is energized, the valve allows flow between the ③ and ② ports and the ④ and ① ports. When the lower solenoid (S2) is energized, the valve allows flow between the ③ and ④ ports and the ② and ① ports.

**Operation of Manual Override Option:** To override, pull the knurled knob to activate the coil "S1" function, or push the knurled knob to activate the coil "S2" function. Release the knurled knob to return the center position.

## FEATURES and BENEFITS

- Continuous-duty solenoid.
- Hardened precision spool and sleeve for long life.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Optional coil voltages and terminations.
- Industry common cavity.

## SPECIFICATIONS

**Operating Pressure:** 3000 psi (207 bar)

**Flow:** See PRESSURE DROP VS. FLOW graph.

Nominal flow 1.5 gpm (5.7 lpm)

**Internal Leakage:** (Per land) 10 in<sup>3</sup>/min (164 cc/min) max.  
at 3000 psi (207 bar)

**Temperature:** -30°F to +250°F (-35°C to +120°C)

**Coil:** Series 8: K-Coil see page 1.91.1; S-Coil see page 1.92.1.

**Coil Duty Rating:** Continuous from 85% to 110% of rated voltage.

**Current Draw:** 12 VDC is 1.3 amps.

**Minimum Pull-In Voltage:** 85% of rated voltage at 3000 psi (207 bar)

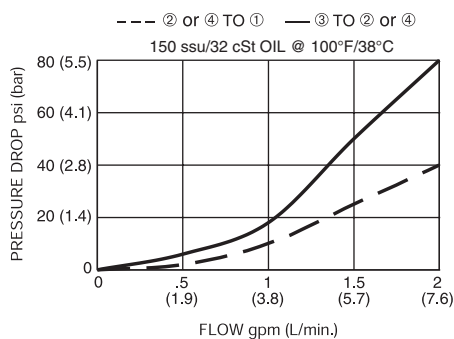
**Recommended Filtration:** ISO 17/15/13

**Fluids:** Mineral-based fluids. For other fluid compatibility, consult factory.

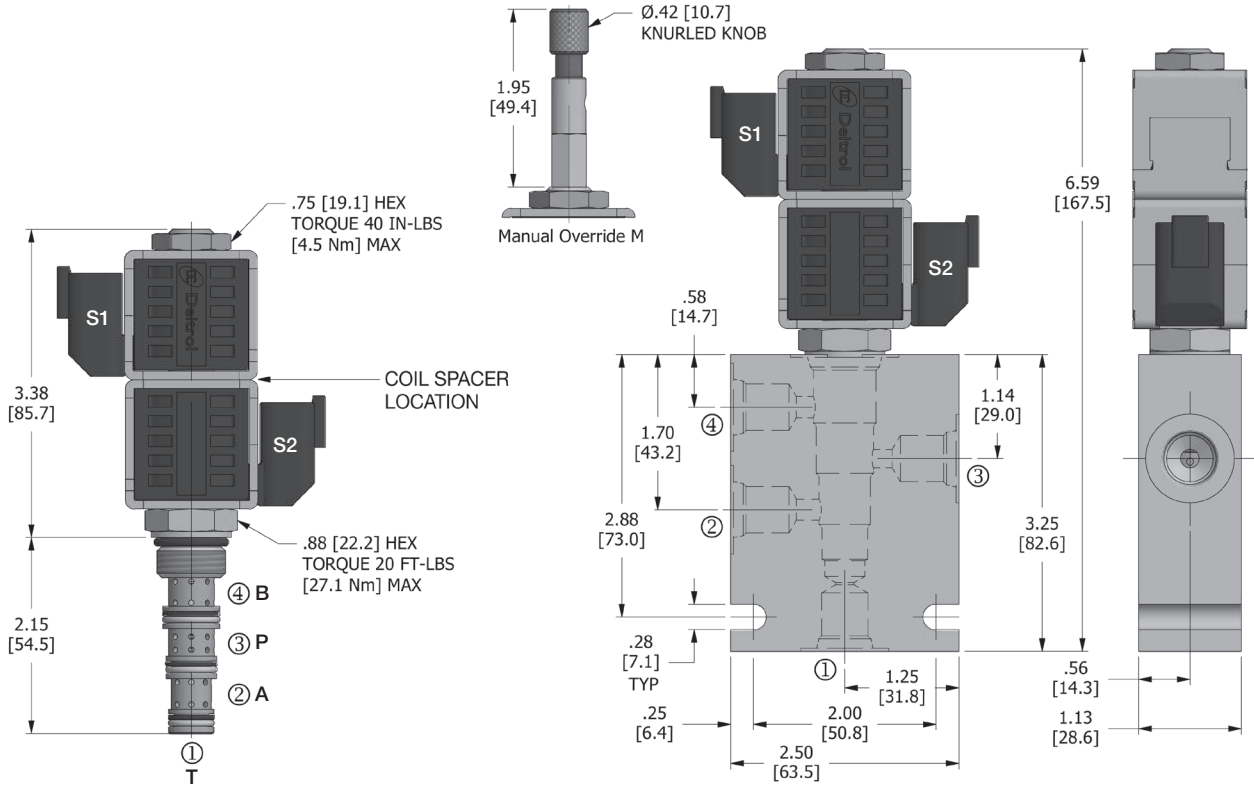
**Cavity/Cavity Tool:** 080-4, see page 11.08.4

**In-Line Body Material:** Anodized 6061T6 aluminum  
alloy rated at 3000 psi (207 bar)

## PRESSURE DROP VS. FLOW



## DIMENSIONS Inches [Millimeters]



## HOW TO ORDER

**DSV** - **080** - **34 O** - **\*** - **\*** - **\*\*** **\*\*** - **\*\***  
 Solenoid Valve    Cavity    Flow Path    Open Center    Seals    Manual Override    Voltage    Termination    Porting

Seals		Seal Kit
<b>N</b>	Buna N	DSK-080-34-U-A
<b>V</b>	Viton	

Manual Override	
omit	No manual override
<b>M</b>	Manual override

Voltage†	
omit	Cartridge only w/nut
<b>D1</b>	DC 12 Volt
<b>D2</b>	DC 24 Volt
<b>D9</b>	DC 20 Volt
<b>D10</b>	DC 10 Volt
<b>A5</b>	AC 120 Volt
<b>A6</b>	AC 240 Volt

Termination†		
K-Coil External Frame	S-Coil Internal Frame	For internal diode – consult factory
omit	<b>XS</b>	Coil Spacer only
<b>DE</b>	<b>DS</b>	Dual Lead
<b>SE</b>	<b>SS</b>	Single Lead
<b>BE</b>	<b>BS</b>	Dual Spade
<b>AE</b>	<b>AS</b>	Single Spade
<b>EE</b>	<b>ES</b>	Single Stud
<b>UE</b> <i>IP69K</i>	<b>US</b>	Deutsch
<b>PE</b> <i>IP69K</i>		Metri-Pack
<b>JE</b> <i>IP69K</i>		Amp Junior Timer
	<b>HS</b>	DIN 43650
	<b>C</b>	Conduit
10234-41	10234-41	coil retainer nut
n/a	10172-60	coil spacer

Porting†			In-Line Body w/o Cartridge
omit	Cartridge only		
<b>2N</b>	1/4 PTF		B-080-4-2N
<b>3N</b>	3/8 PTF		B-080-4-3N
<b>4T</b>	SAE 4		B-080-4-4T
<b>6T</b>	SAE 6		B-080-4-6T

† Other options available – consult factory

Valve, Coil, and In-Line Body are supplied individually and need to be assembled. For a completed assembly consult the factory.

All variations may not be configurable. Minimum order quantities may be required on other models. Contact Deltrol Fluid Products for complete details.