# DSV2-080-3

Three-Way, Two-Position, Spool-Type Solenoid Valve

1



#### **SERIES 8**

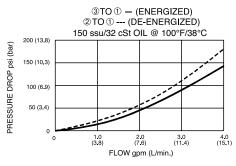


SOLENOID

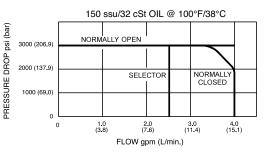




## PRESSURE DROP VS. FLOW



## PERFORMANCE CHARACTERISTIC



# DESCRIPTION

A cartridge valve designed as a three-way, spool-type, directional control valve.

## **OPERATION**

When de-energized, the DSV2-080-3 allows flow between 0 and 0, while blocking flow at 3.

When energized, the cartridge's spool shifts to allow flow between ① and ③ while blocking flow at @.

**Operation of Manual Override Option:** To override, push button in, twist counterclockwise and release. In this position, valve will remain detented in the shifted condition.

To return to normal operation, push button in, twist clockwise and release. Override will be detented in this 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.
- Manual override option.
- Industry common cavity.

#### SPECIFICATIONS

Operating Pressure: 3000 psi (207 bar) Flow: See PRESSURE DROP VS. FLOW graph. Nominal flow 4 gpm (15.1 lpm) Internal Leakage: (Per land) 5 in<sup>3</sup>/min (82 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) Response Time: 80% of final change of state with 100% voltage supplied at 100% of nominal flow rating. Pull-In: 12 VDC 40 m. sec. Drop-Out: 12 VDC 8 m. sec. Recommended Filtration: ISO 17/15/13 Fluids: Mineral-based fluids. For other fluid compatibility consult factory. Cavity/Cavity Tool: 080-3, see page 11.08.3

alloy rated at 3000 psi (207 bar).

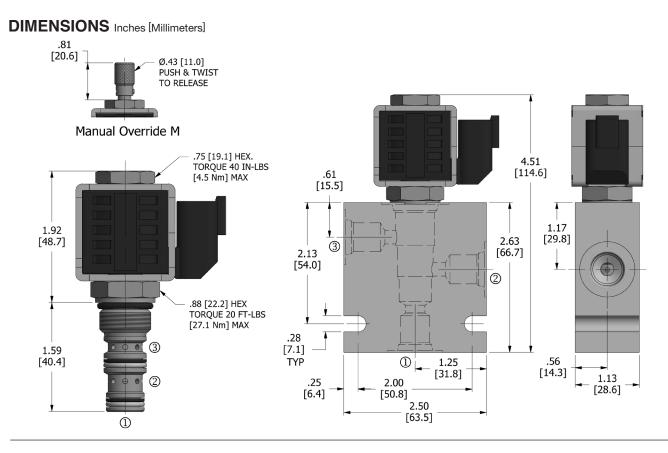
In-Line Body Material: Anodized 6061T6 aluminum



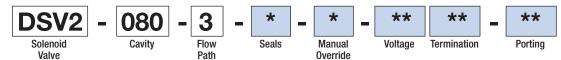
DSV2-080-3

Three-Way, Two-Position, Spool-Type Solenoid Valve

#### **SERIES 8**



#### **HOW TO ORDER**



Seals		Seal Kit
N	Buna N	
V	Viton	

Manual Override		
omit	omit No manual override	
М	Manual override	

omitCartridge only w/nutD1DC 12 VoltD2DC 24 Volt
D2 DC 24 Volt
D9 DC 20 Volt
D10 DC 10 Volt
A5 AC 120 Volt
A6 AC 240 Volt

<b>Termination</b> <sup>†</sup>			
K-Coil External Frame	S-Coil Internal Frame	For internal diode – consult factory	
omit	omit	Cartridge only w/nut	
DE	DS	Dual Lead	
SE	SS	Single Lead	
BE	BS	Dual Spade	
AE	AS	Single Spade	
EE	ES	Single Stud	
UE IP69K	US	Deutsch	
<b>PE</b> <i>IP69K</i>		Metri-Pack	
JE IP69K		Amp Junior Timer	
	HS	DIN 43650	
	С	Conduit Duty Rating: Intermittent	
10234-41	10234-41	coil retainer nut	

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

† 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.

www.deltrolfluid.com