# DSV2-100-3B

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

2

3



#### **SERIES 10**

W

1



SOLENOID



## blocking flow at ③. When energized, the cartridge's spool shifts to allow flow between ② and ③ while blocking flow at ①. Operation of Manual Override Option: To override, push button in to activate. To return to normal valve function, release button. To return to normal operation, push button in, twist clockwise and

DESCRIPTION

control valve.

**OPERATION** 

## FEATURES and BENEFITS

- · Continuous-duty solenoid.
- Hardened precision spool and sleeve for long life.

release. Override will be detented in this position.

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

When de-energized, the DSV2-100-3B allows flow from 2 to 1, while

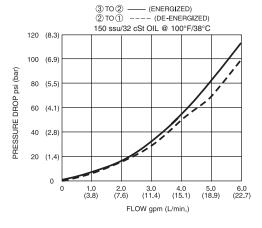
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Optional coil voltages and terminations.
- Manual override option.
- Industry common cavity.

#### SPECIFICATIONS

Operating Pressure: 3000 psi (207 bar) Flow: See PRESSURE DROP VS. FLOW graph. Nominal flow 6 gpm (22.7 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 10: K-Coil see page 1.93.1; S-Coil see page 1.94.1. Coil Duty Rating: Continuous from 85% to 110% of rated voltage. Current Draw: 12 VDC is 1.8 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 95 m. sec. Drop-Out: 12 VDC 85 m. sec. Recommended Filtration: ISO 17/15/13 Fluids: Mineral-based fluids. For other fluid compatibility, consult factory. Cavity/Cavity Tool: 100-3, see page 11.10.3 In-Line Body Material: Anodized 6061T6 aluminum

alloy rated at 3000 psi (207 bar).

### PRESSURE DROP VS. FLOW



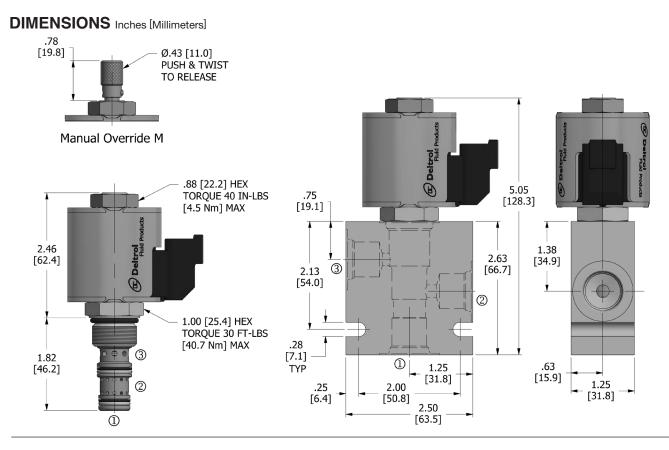
(1)



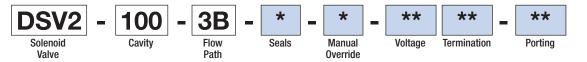
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#### **HOW TO ORDER**



Seals		Seal Kit
N	Buna N	
V	Viton	

Manual Override		
omit No manual override		
М	Manual override	

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

**Voltage**<sup>†</sup>

Termination <sup>†</sup>				
K-Coil External Frame	S-Coil Internal Frame	For internal diode – consult factory		
omit	omit	Cartridge only w/nut		
DE	D	Dual Lead		
SE	S	Single Lead		
BE	В	Dual Spade		
AE		Single Spade		
EE	E	Single Stud		
UE IP69K		Deutsch		
<b>PE</b> <i>IP69K</i>		Metri-Pack		
JE IP69K		Amp Junior Timer		
KE		Kostal		
HE	Н	DIN 43650		
	С	Conduit		
10243-72	10243-72	coil retainer nut		

Porting <sup>†</sup>		In-Line Body
omit	Cartridge only	w/o Cartridge
2N	1/4 PTF	B-100-3-2N
3N	3/8 PTF	B-100-3-3N
6T	SAE 6	B-100-3-6T
8T	SAE 8	B-100-3-8T

† 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.