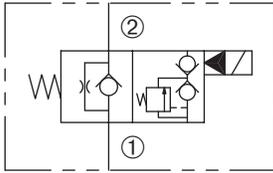


# DSV2-100-2NOP

Normally-Open, Two-Way, Two-Position,  
Poppet-Type Solenoid Valve

## SERIES 10



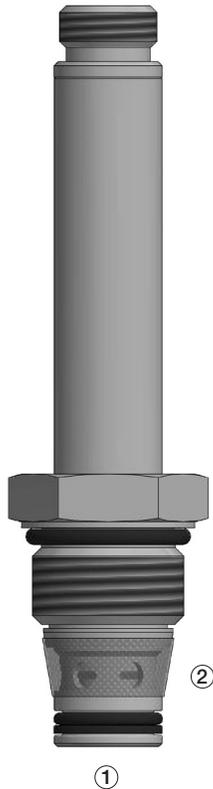
### DESCRIPTION

A cartridge valve designed with positive shut off to be used in load holding applications.

### OPERATION

When de-energized, the DSV2-100-2NOP poppet is open to allow flow from ② to ①.

When energized, the poppet closes to block flow from ② to ①. In this condition, the cartridge allows reverse flow from ① to ② after overcoming the solenoid force - 50 psi (3 bar).



### FEATURES and BENEFITS

- Continuous-duty solenoid.
- Hardened poppet and plunger for long life and low leakage.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Optional coil voltages and terminations.
- Filter screen standard.
- Industry common cavity.

### SPECIFICATIONS

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

**Flow:** See PRESSURE DROP VS. FLOW graph.  
Nominal flow 16 gpm (60.6 lpm)

**Internal Leakage:** 5 drops/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 25 m. sec. **Drop-Out:** 12 VDC 30 m. sec.

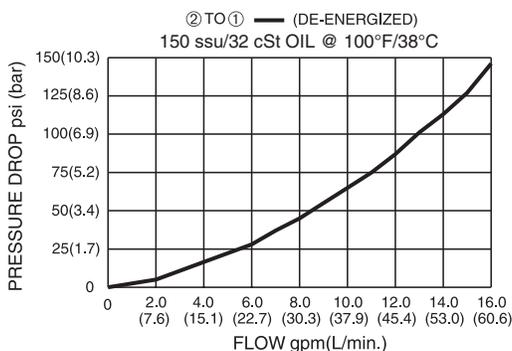
**Recommended Filtration:** Critical Application-ISO 17/15/13  
Non-Critical Application-ISO 20/18/14

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

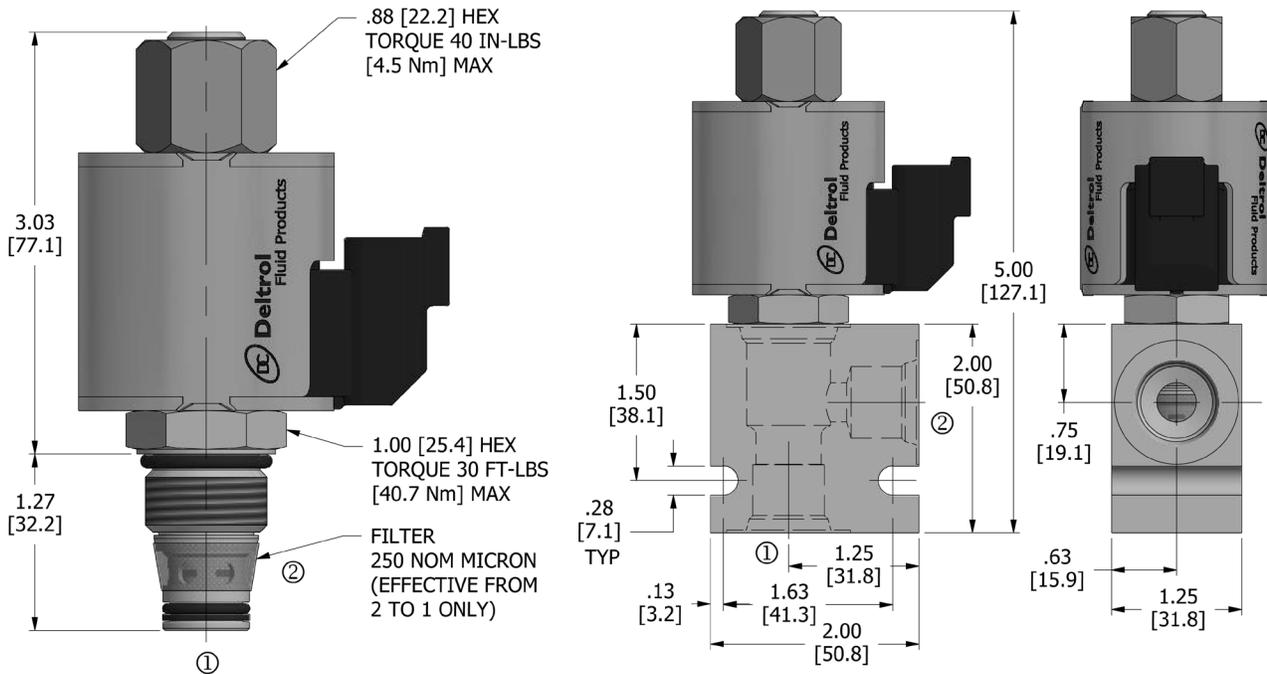
**Cavity/Cavity Tool:** 100-2, see page 11.10.2

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

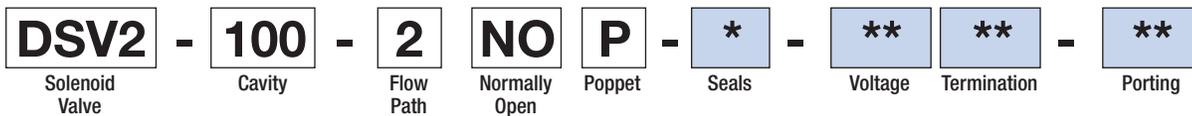
### PRESSURE DROP VS. FLOW



## DIMENSIONS Inches [Millimeters]



## HOW TO ORDER



Seals		Seal Kit
<b>N</b>	Buna N	DSK-100-2-N-A
<b>V</b>	Viton	DSK-100-2-V-A

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	omit	Cartridge only w/nut
<b>DE</b>	<b>D</b>	Dual Lead
<b>SE</b>	<b>S</b>	Single Lead
<b>BE</b>	<b>B</b>	Dual Spade
<b>AE</b>		Single Spade
<b>EE</b>	<b>E</b>	Single Stud
<b>UE</b> IP69K		Deutsch
<b>PE</b> IP69K		Metri-Pack
<b>JE</b> IP69K		Amp Junior Timer
<b>KE</b>		Kostal
<b>HE</b>	<b>H</b>	DIN 43650
	<b>C</b>	Conduit

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

10149-10 | 10149-10 | coil retainer nut

† 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.