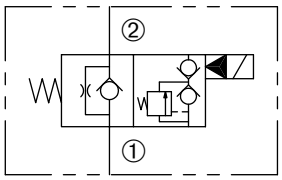
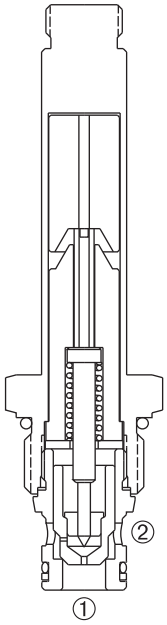
DSV2-100-2NOP

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

Deltrol FLUID PRODUCTS

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).

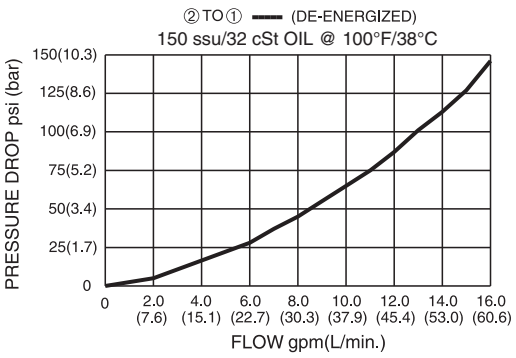
FEATURES and BENEFITS

- 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.
- Compact size.

SPECIFICATIONS

Operating Pressure: 3000 PSI (207 Bar)
Flow: See PRESSURE DROP VS. FLOW graph.
Internal Leakage: 5 drops/min. max. at 3000 PSI (207 Bar)
Temperature: -30° F to +250° F (-35°C to +120° C)
Coil 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



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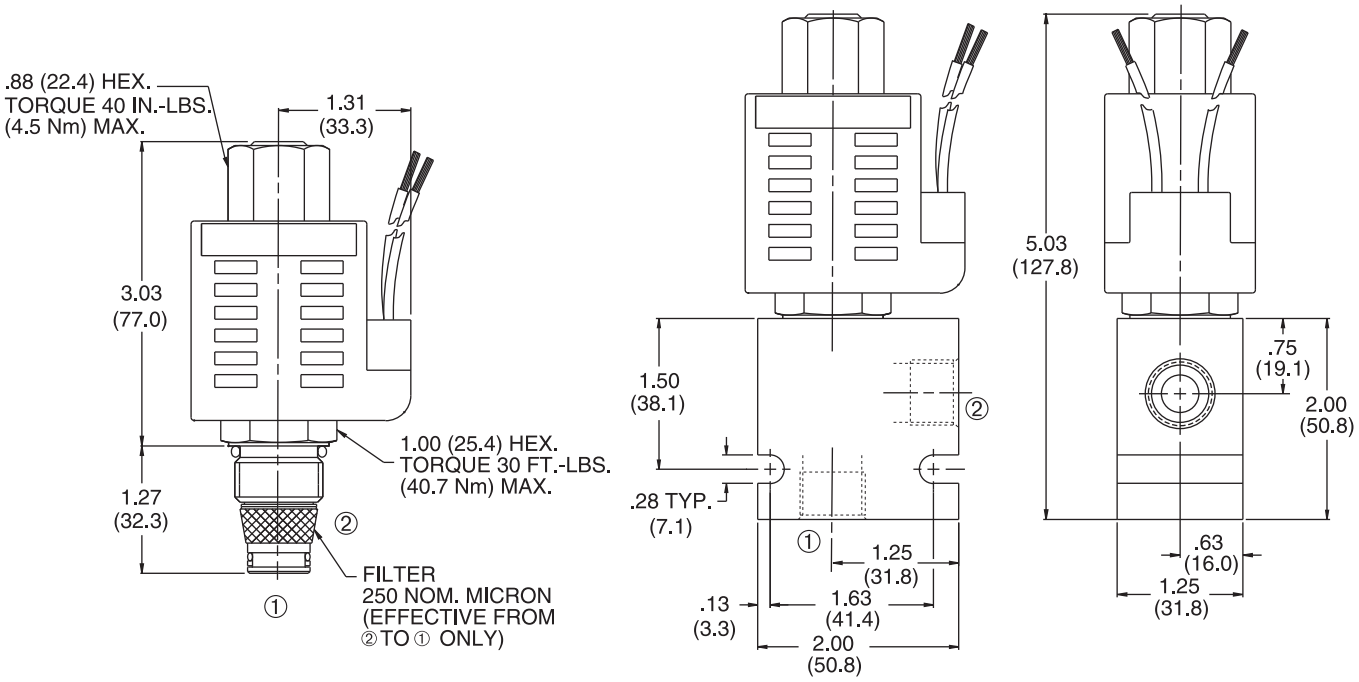
INSTALLATION DIMENSIONS



( ) Parentheses = Millimeters

HOW TO ORDER

**DSV2 - 100 - 2 NO P - * - * * * - **

SOLENOID VALVE

CAVITY/SEAL

FLOW PATH

NORMALLY OPEN

POPPET

SEALS
N = Buna N
V = Viton

D = DC
A = AC

VOLTAGE
1 = 12 Volt
2 = 24 Volt
5 = 120 Volt
6 = 240 Volt
9 = 20 Volt
10 = 10 Volt

COIL CONNECTION
D = Double Lead
S = Single Lead
H = Hirschmann®
C = Conduit
B = Double Spade
E = Single Stud

PORTING
2N = 1/4 PTF
3N = 3/8 PTF
6T = SAE 6
8T = SAE 8
Omit for Cartridge Only

Omit coil for cartridge only with nut.
Other porting and coil options available – consult factory.