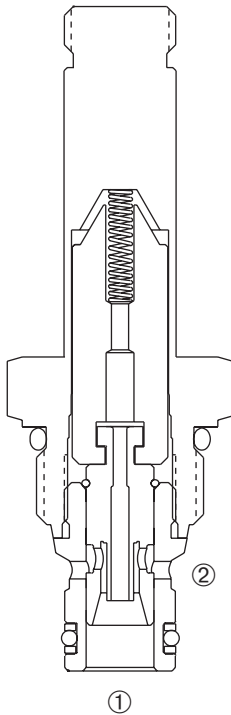
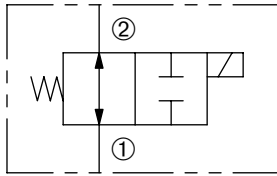


# DSV2-080-2NOS

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



## SERIES 8



## DESCRIPTION

A cartridge valve designed to operate as a bi-directional blocking valve.

## OPERATION

When de-energized, the DSV2-080-2NOS allows flow in both directions.

When energized, the cartridge's spool shifts to block flow in either direction.

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

To return to normal operation, push button in, twist clockwise and release. Override will be detented in this position.

## FEATURES and BENEFITS

- Both ports may be fully pressurized.
- 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.
- Compact size.

## SPECIFICATIONS

**Operating Pressure:** 3000 PSI (207 Bar)

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

**Internal Leakage:** 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 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 85 m. sec. **Drop-Out:** 12 VDC 95m. sec.

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

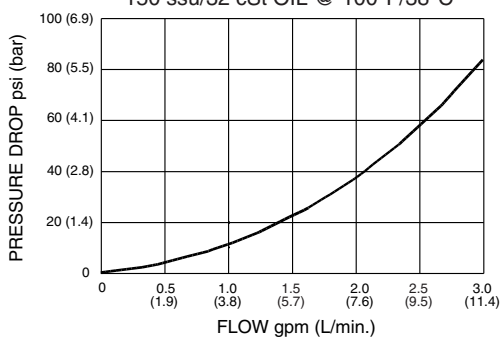
**Fluids:** Mineral-based fluids. For other fluid compatibility consult factory.

**Cavity/Cavity Tool:** [080-2, see page 11.08.2](#)

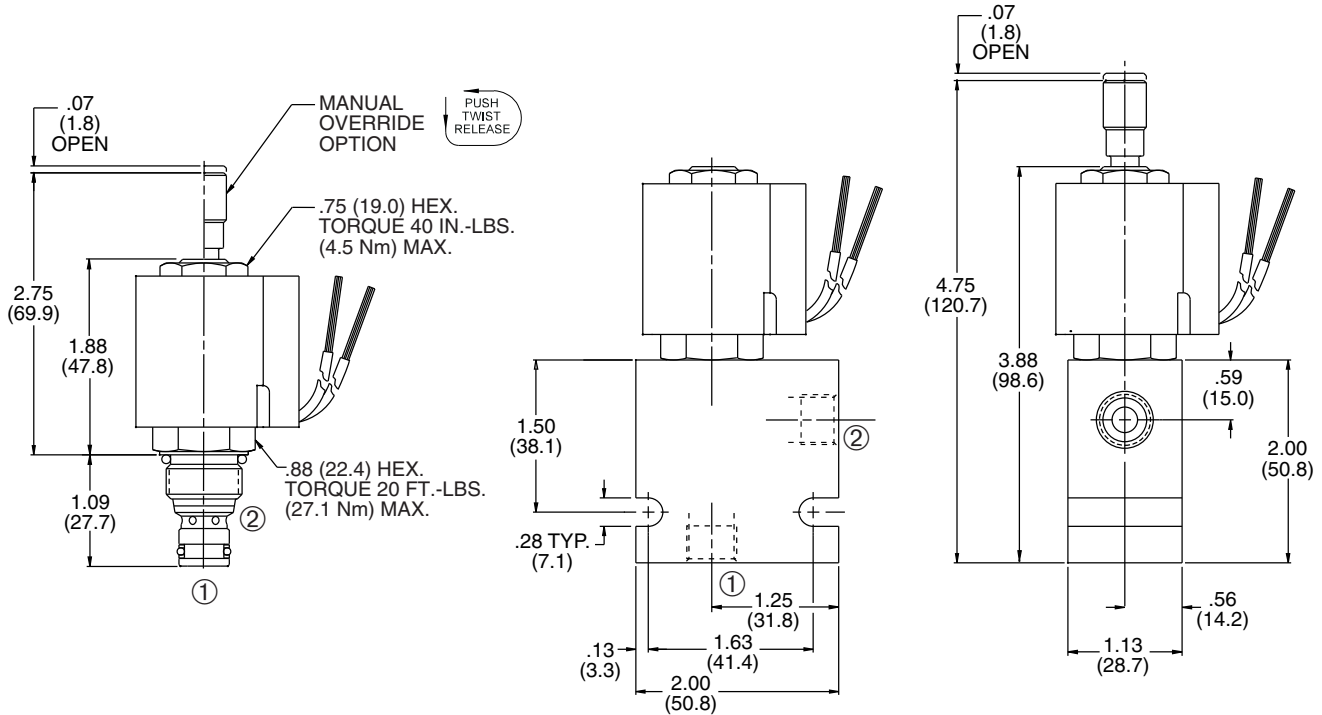
**In-Line Body Material:** Anodized 6061T6 aluminum  
alloy rated at 3000 PSI (207 Bar).

## PRESSURE DROP VS. FLOW

② TO ① OR ① TO ② — (DE-ENERGIZED)  
150 ssu/32 cSt OIL @ 100°F/38°C



## INSTALLATION DIMENSIONS



( ) Parentheses = Millimeters

## HOW TO ORDER

**DSV2 - 080 - 2 NO S - \* - \* - \* \* \* \* - \*\***

SOLENOID VALVE

CAVITY/SEAL

FLOW PATH

NORMALLY OPEN

SPOOL

SEALS  
N = Buna N  
V = Viton

M = Manual Override  
(Omit for standard)

D = DC  
A = AC

PORTING

2N = 1/4 PTF

3N = 3/8 PTF

4T = SAE 4

6T = SAE 6

Omit for Cartridge Only

COIL CONNECTION

DE = Double Lead

SE = Single Lead

HS = Hirschmann®

CS = Conduit

BE = Double Spade

EE = Single Stud

UE = Deutsch

VOLTAGE

1 = 12 Volt

2 = 24 Volt

5 = 120 Volt

6 = 240 Volt

9 = 20 Volt

10 = 10 Volt

Omit coil for cartridge only with nut.

Other porting and coil options available – consult factory.