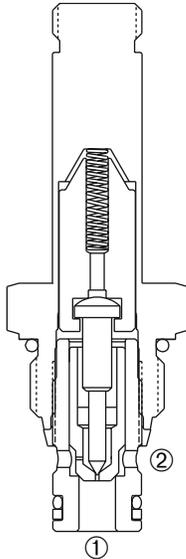


## DSV-080

### Normally-Closed, Two-Way, Two-Position, Pilot-Operated Cartridge Solenoid Valve



#### DESCRIPTION

A cartridge valve designed with positive shut off, low or zero leakage, to be used in load holding applications.

#### OPERATION

When de-energized, the DSV-080 acts as a check valve, allowing flow from ① to ②, while blocking flow from ② to ①.

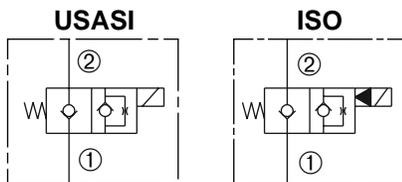
When energized, the poppet lifts to open the ② to ① flow path.

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

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

Note: Pull only to override and release to return option available. See page 1.03.

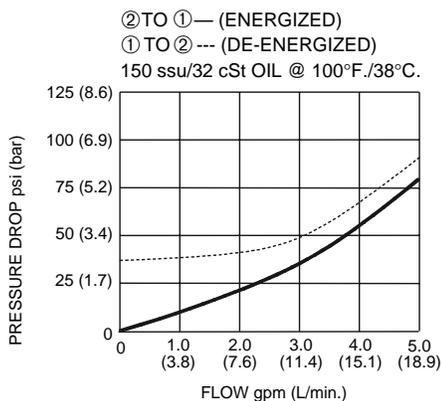
#### SYMBOLS



#### FEATURES and BENEFITS

- 4000 PSI rating.
- 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.
- Zero leak valve available.
- Manual override option.
- Industry common cavity.
- Compact size.

#### PRESSURE DROP VS. FLOW



#### SPECIFICATIONS

**Operating Pressure:** 4000 PSI (275 Bar)

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

**Internal Leakage:** 5 drops/min. max. at 4000 PSI (275 Bar)

Zero leakage available –

2 drops/min. max. at 4000 PSI (275 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 4000 PSI (275 Bar)

**Response Time:** 80% of final change of state with 100% voltage supplied at 100% of nominal flow rating.

**Pull-In:** 12 VDC 16 m. sec.

**Drop-Out:** 12 VDC 18 m. sec.

**Recommended Filtration:** Critical Application-ISO 16/12

Non-Critical Application-ISO 19/15

**Fluids:** Mineral-based fluids.

For other fluid compatibility consult factory.

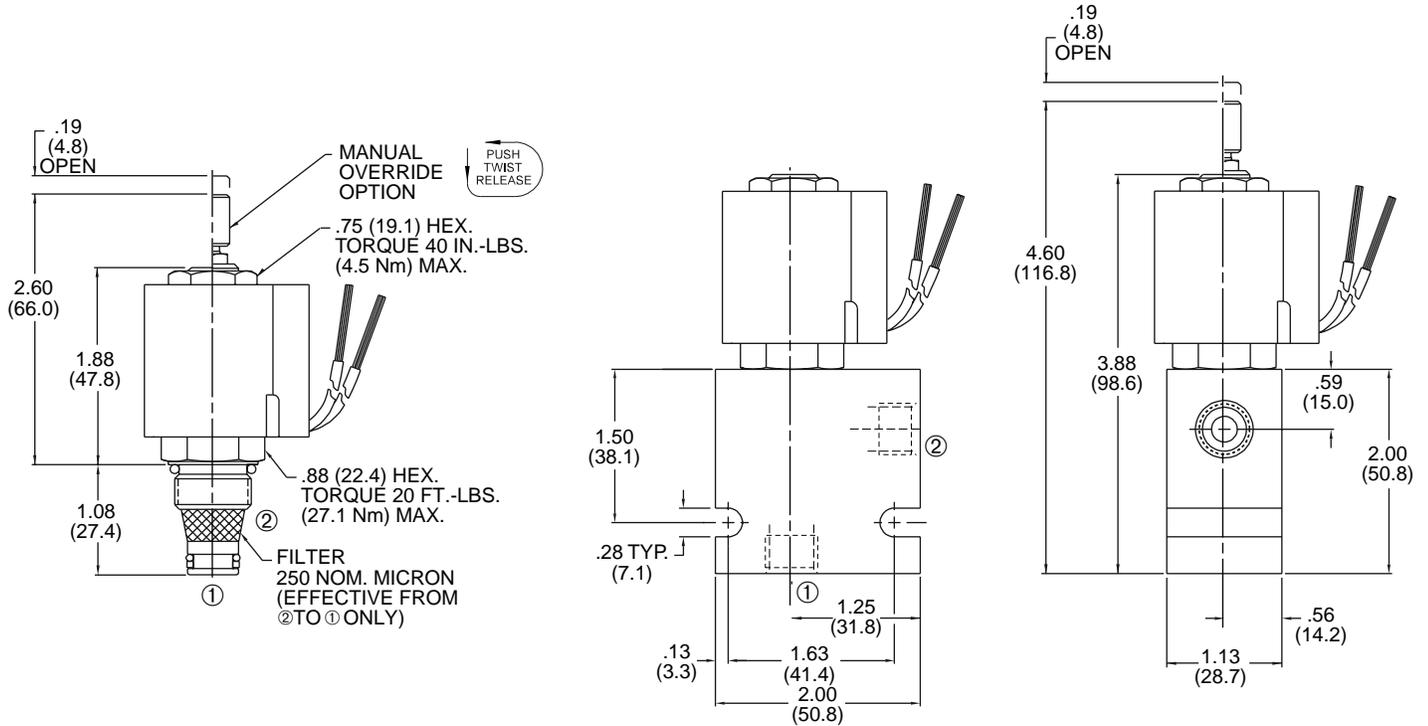
**Cavity:** 080-2, see page 0.20.

**Cavity Tool:** See page 0.20.

**Body Material:** Anodized 6061T6 aluminum

alloy rated at 3000 PSI (207 Bar).

## INSTALLATION DIMENSIONS



( ) Parentheses = Millimeters

## HOW TO ORDER

