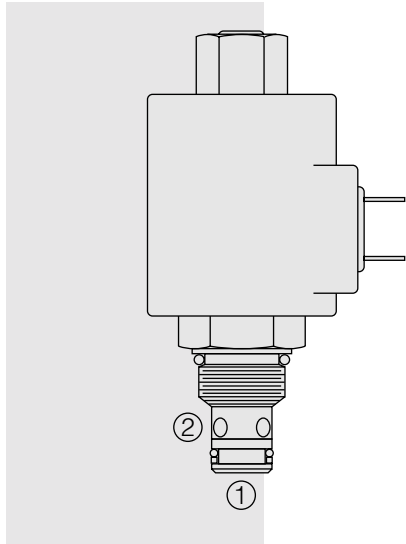


# SOLENOID VALVES

## SV38-28 Poppet, 2-Way, N.C., Bi-Directional Blocking



### DESCRIPTION

A solenoid-operated, 2-way, normally closed, poppet-type, bi-directional blocking, screw-in hydraulic cartridge valve, designed for low leakage in load-holding applications.

### OPERATION

When de-energized, the **SV38-28** blocks flow in both directions. When energized, the valve's poppet opens on its seat, allowing flow from ② to ① and ① to ②.

Consult factory if used serially with orifice disc.

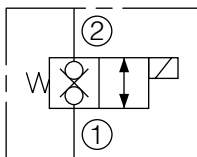
**Operation of Manual Override Option:** To override, push and hold override button.

### FEATURES

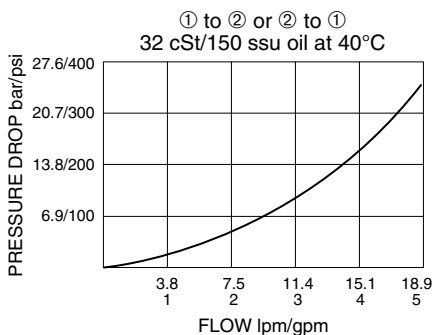
- Continuous-duty rated coil.
- Hardened seat for long life and low leakage.
- Optional coil voltages and terminations.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Unitized, molded coil design.
- Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- Industry common cavity.

### SYMBOLS

#### USAS/ISO:



### PERFORMANCE (Cartridge Only)



### RATINGS

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

**Flow:** See Performance Chart

**Internal Leakage:** 0.25 cc/minute (5 drops/minute) max. at 207 bar (3000 psi)

**Cycle Life:** 500,000 cycles minimum at rated pressure  
(due to internal dynamic seal life)

**Temperature:** -40 to 100°C with standard Buna N seals

**Coil Duty Rating:** Continuous from 85% to 115% of nominal voltage

**Initial Coil Current Draw at 20°C:** Standard Coil: 1.67 amps at 12 VDC; 0.18 amps at 115 VAC (full wave rectified). E-Coil: 2.0 amps at 12 VDC; 1.0 amps at 24 VDC

**Minimum Pull-in Voltage:** 85% of nominal at 207 bar (3000 psi)

**Filtration:** See page 9.010.1

**Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 ssu)

**Installation:** No restrictions; See page 9.020.1

**Cavity:** VC08-2; See page 9.108.1

**Cavity Tool:** CT08-2XX; See page 8.600.1

**Seal Kit:** SK08-2x-M; See page 8.650.1

**Coil Nut:** Part No. 7004420;

For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.

