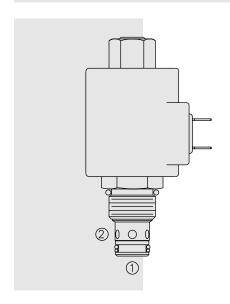
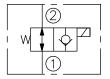
# SV10-23 Poppet, 2-Way, Normally Open



## **SYMBOLS**

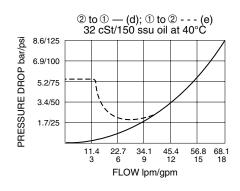
### **USASI:**







## PERFORMANCE (Cartridge Only)



#### **DESCRIPTION**

A solenoid-operated, 2-way, poppet-type, normally open, screw-in, hydraulic cartridge valve.

#### **OPERATION**

When de-energized, the **SV10-23** allows bidirectional flow from ② to ①.

When energized, the valve's poppet closes to block flow from ② to ①. In this mode, the cartridge allows free reverse flow from ① to ② after overcoming the solenoid force (requires 3.4 to 10.3 bar [50 to 150 psi]).

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

#### **FEATURES**

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

#### **RATINGS**

Operating Pressure: 207 bar (3000 psi)
Proof Pressure: 345 bar (5000 psi)
Flow: See Performance Chart

Internal Leakage: 0.15 cc/minute (3 drops/minute) max. at 207 bar (3000 psi)

Temperature: -40 to 120°C with standard Buna seals

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

**Response Time:** First indication of change of state with 100% voltage supplied at 80% of nominal flow rating: Energized: 80 msec.; De-energized: 30 msec.

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: VC10-2; See page 9.110.1

Cavity Tool: CT10-2XX; See page 8.600.1 Seal Kit: SK10-2X-T; See page 8.650.1

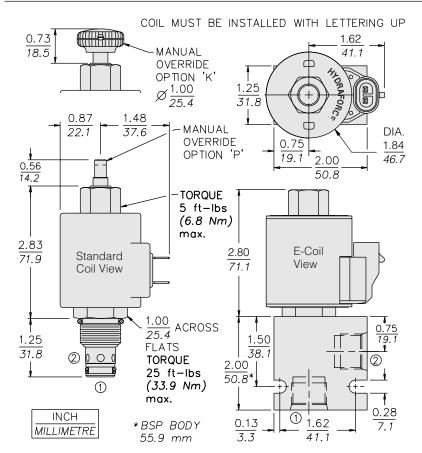
Coil Nut: Part No. 7004420;

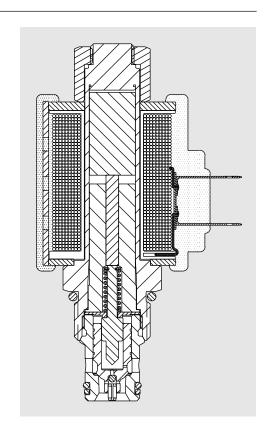
For E-coils manufactured prior to 1-1-04, see page 3.400.1 for coil nut info.



## SV10-23

## **DIMENSIONS**





#### **MATERIALS**

Cartridge: Weight: 0.16 kg. (0.35 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-up standard.

Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); See page 8.010.1. Ductile iron and steel bodies available; consult factory.

Standard Coil: Weight: 0.27 kg. (0.60 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnetwire; See page 3.200.1.

E-Coil: Weight: 0.41 kg. (0.9 lbs.); Fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors; Note: See page 3.400.1 for all E-Coil retrofit applications.

## TO ORDER

