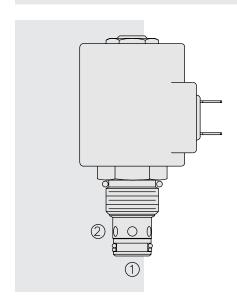
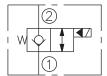
SV10-22 Poppet, 2-Way, Normally Closed

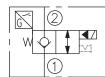


SYMBOLS

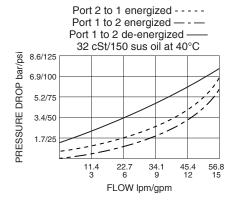
ISO:



with Sensor:



PERFORMANCE (Cartridge Only)



SV10-22 with Sensor Port 2 to 1 energized ----Port 1 to 2 energized — --Port 1 to 2 de-energized — 32 cSt/150 sus oil at 40°C 27.6/400 20.7/300 31.8/200 6.9/100 15.9 30.3 45.4 60.6 75.7 4 8 12 16 20 FLOW lpm/gpm

DESCRIPTION

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

OPERATION

When de-energized, the **SV10-22** acts as a check valve, allowing flow to pass from 1 to 2, while blocking flow from 2 to 1. With the sensor option, the neutral sensor will signal ON or HIGH.

When energized, the 2 to 1 flow path opens. In this mode, flow is also allowed from 1 to 2. With the sensor option, the neutral sensor will signal LOW or OFF.

Operation of Manual Override Option: To override, push button in, twist counterclockwise 180° and release. In this position, the valve will remain open.

To return to normal operation, push button in, twist clockwise 180° and release. Override will be detented in this position.

FEATURES

• Continuous-duty rated solenoid.

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

RATINGS

Operating Pressure: 240 bar (3500 psi) Proof Pressure: 350 bar (5075 psi)

Flow: 56.8 lpm (15 gpm); see performance chart

Internal Leakage: 0.15 cc/minute (3 drops/minute) max. at 240 bar (3500 psi) Temperature: with standard Buna N seals: -40 to 100 °C (-40 to 212 °F);

with Fluorocarbon seals: -26 to 204 °C (-15 to 400 °F)

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: 40 msec.; De-energized: 32 msec.

Response Time with Sensor: 68 ms pull-in, 50 ms drop-out

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: 1.7 amps at 12 Vdc; 0.85 amps at 24 Vdc

Minimum Pull-in Voltage: 85% of nominal at 240 bar (3500 psi)

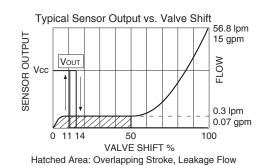
Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

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

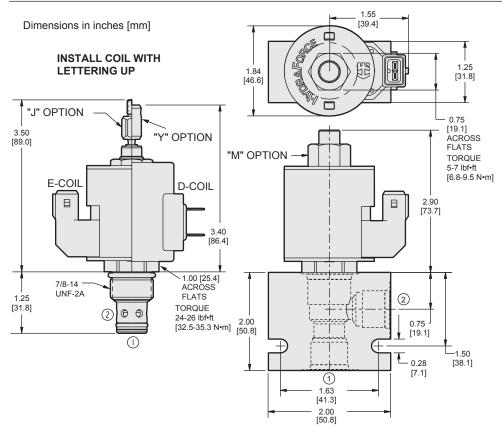
Coil Nut: Part No. 7004400





SV10-22

DIMENSIONS



Dimensions will differ significantly with Sensor Option; see page 3.010.1.

MATERIALS

Cartridge: Weight: 0.17 kg (0.37 lb); Weight with Sensor option: 0.49 kg (1.07 lb); 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 lb); Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; Dimensions may differ. See page 8.010.1.

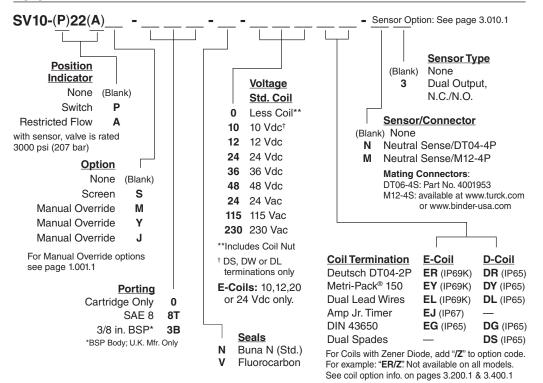
tic encapsulated, Class H high

D-Coil: Weight: 0.27 kg (0.60 lb); Unitized thermoplas-

temperature magnet wire. See page 3.200.1.

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

TO ORDER



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