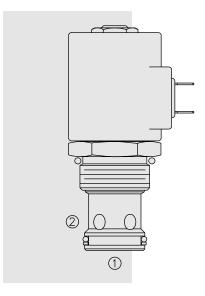
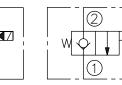
Poppet, 2-Way, Normally Closed SV16-20



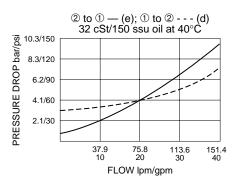
SYMBOLS





ISO:

PERFORMANCE (Cartridge Only)



DESCRIPTION

A solenoid-operated, 2-way, normally closed, poppet-type, screw-in hydraulic cartridge valve, designed to function as a load holding or blocking valve in applications requiring low internal leakage.

OPERATION

When de-energized, the SV16-20 acts as a check valve, allowing flow to pass from ① to 2. while blocking flow in the reverse direction.

When energized, the poppet lifts to open the 2 to 1 flow path. In this mode, flow from 1) to 2) is severely restricted. If this path is required, see model SV16-22, page 1.046.1.

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.
- 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); Note: Under certain operating conditions this valve may be rated for higher operating pressures. Consult factory.

Proof Pressure: 390 bar (5700 psi)

Flow: See Performance Chart

Internal Leakage: 0.35 cc/minute (7 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

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: Recommend 25µ nominal or better; 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: VC16-2; See page 9.116.1

Cavity Tool: CT16-2XX; See page 8.600.1

Seal Kit: SK16-2X-T; See page 8.650.1

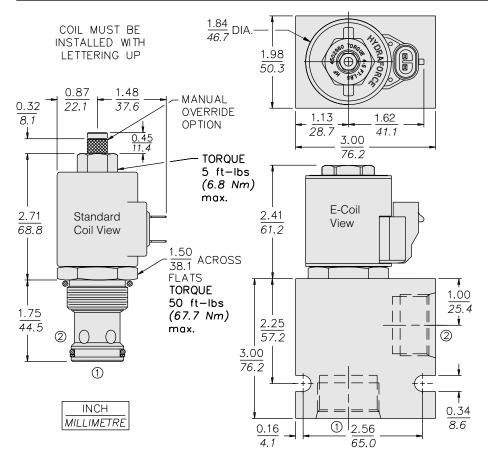
Standard Coil Nut: Part No. 7004406

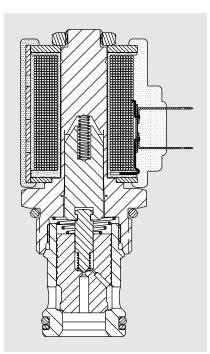
E-Coil Nut: Part No. 4502960



SV16-20

DIMENSIONS





MATERIALS

- Cartridge: Weight: 0.31 kg. (0.69 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-up standard.
- Standard Ported Body: Weight: 0.57 kg. (1.25 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 240 bar (3500 psi); See page 8.016.1. 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: 408 g. (14.4 oz.); Perfect wound, 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

SV16-20				
Qption None Manual Override Manual Override Manual Override For Manual Override of see page 1.001.1 Porting Cartridge Only SAE 12 SAE 16 3/4 in. BSP* 1 in. BSP* *BSP Body; U.K. Mfr. Only Seals Buna N (Std.) Fluorocarbon	(Blank) M Y J potions 0 12T 16T 6B 8B	Voltage 0 Less Coil** 10 10 VDC† 12 12 VDC 24 24 VDC 36 36 VDC 48 48 VDC 110 110 VDC 24 24 VAC 115 115 VAC 230 230 VAC **Includes Std. Coil Nut *Available only with DS, DW or DL terminations Voltage E-Coil 12 12 VDC 24 24 VDC	DS DG DL DW AG AP ER EY	Termination (VDC) Std. Coil Dual Spades DIN 43650 Leadwires (2) Leads w/Weatherpak® Connectors Termination (VAC) Std. Coil DIN 43650 1/2 in. Conduit Termination (VDC) E-Coil Deutsch DT04-2P (IP69K Rated) Metri-Pack® 150 (IP69K Rated)