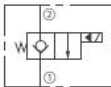


SOLENOID VALVE

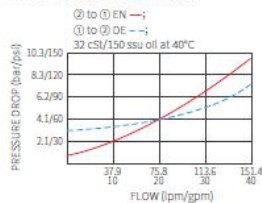
ISV16-B20
 POPPET, 2-WAY, N.C.
 (HIGH PRESSURE)



SYMBOL



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 ISV16-B20 acts as a check valve, allowing flow from ① to ②, while blocking flow from ② to ①.

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

In this mode, flow from ① to ② is severely restricted.

Operation of Manual Override Option: To override, push button in, twist counter-clockwise 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

1. Continuous-duty rated coil.
2. Hardened seat for long life and low leakage.
3. Optional coil voltages and terminations.
4. Efficient wet-armature construction.
5. Cartridges are voltage interchangeable.
6. Manual override option.
7. Optional waterproof E-Coils rated up to IP69K.
8. Unitized, molded coil design.
9. Cost effective cavity.

RATINGS

Operating Pressure: 207 bar (3000 psi)

Proof Pressure: 390 bar (5700 psi)

Flow: See Performance Chart

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

Temperature: -40 to 120°C

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

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

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

Installation: No restrictions

Cavity: IVC16-2; See page 305

MATERIALS

Cartridge: Weight: 0.31 kg. (0.69 lbs.); Steel with hardened work surfaces.

Zinc-plated exposed surfaces.

Seal: O-rings and back-up rings.

Standard Ported Body: Weight: 0.57 kg. (1.25 lbs.); Anodized high-strength 6061

T6 aluminum alloy, rated to 240 bar (3500 psi).

Ductile iron and steel bodies available; dimensions may differ.

Consult Inno.

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

E-Coil: Weight: 0.41 kg. (0.90 lbs.); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors.

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