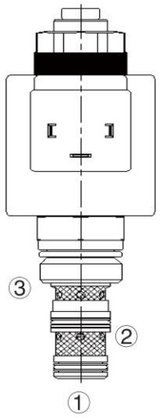
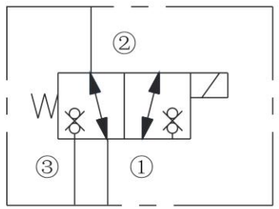


ISO SYMBOL



DESCRIPTION

A solenoid-operated, two-position, three-way, bi-directional blocking, screw-in hydraulic cartridge valve. It is designed for low leakage in load-holding applications.

OPERATION

When de-energized, the INSV10-38 blocks flow from 3 to 2 or from 2 to 3.When energized, flow is blocked from 2 to 1 or from 1 to 2.

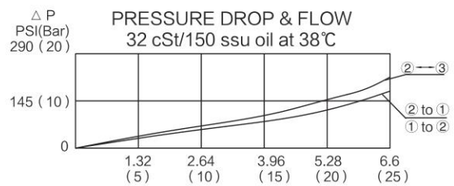
FEATURES

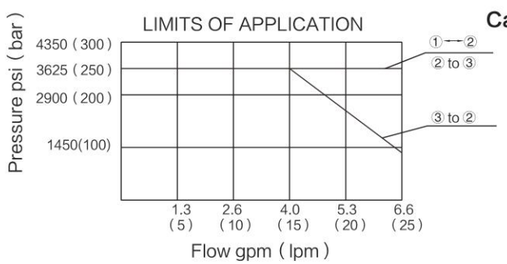
- Continuous-duty rated solenoid.
- Hardened seat for long life and low leakage.
- Optional coil voltages and terminations.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Optional waterproof E-Coils rated up to IP69K.
- Unitized, molded coil design.
- Industry-common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

RATINGS

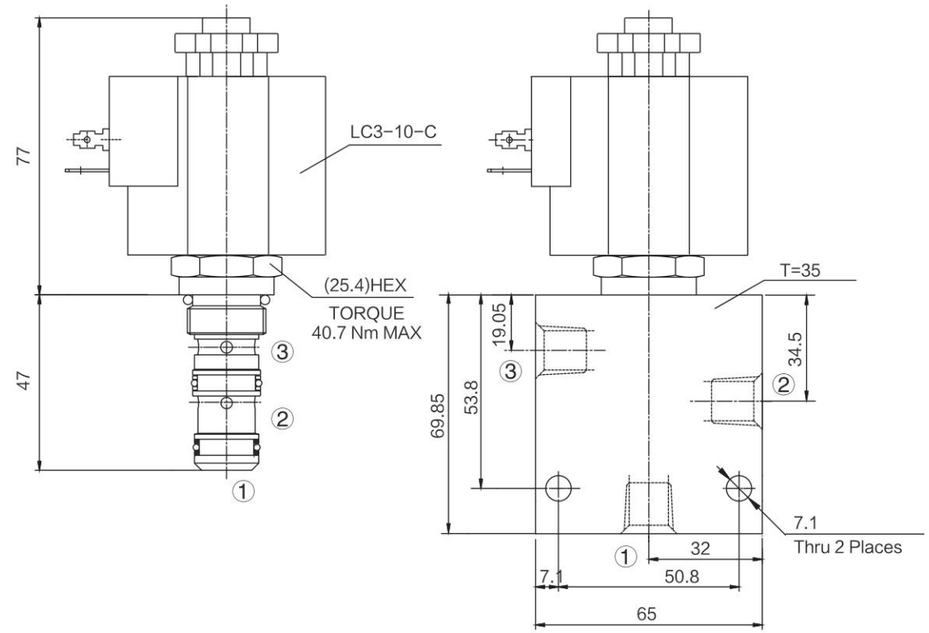
Operating Pressure: 250 bar (3625psi)
Flow: See Performance Chart
Internal Leakage: 0.05cc/minute (1 drops/minute) at 250 bar (3625 psi)
Temperature: -40 to 100℃ with standard Buna seals;-26 to 204℃ with Fluorocarbon seals; -54 to 107℃ with Polyurethane seals
Coil Duty Rating: Continuous from 85% to 115% of nominal voltage
Initial Coil Current Draw at 20℃ : 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);
Cavity: T10-3A; See bottom of this catalog

PERFORMANCE (Cartridge Only)





DIMENSIONS



MATERIALS

Cartridge: Weight: 0.22 kg. (0.47 lbs.); Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-up standard.
Standard Ported Body: Weight: 0.27 kg. (0.60 lbs.); Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ.
Standard Coil: Weight: 0.3 kg. (0.60 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnetwire.
E-Coil: Weight: 0.41 kg. (0.9 lbs.); Fully encapsulated with rugged external metal shell. Rated up to IP69K with integral connectors.

TO ORDER

INSV10-38 P - - - -

Porting

Cartridge Only	0
SAE 6	6T
1/4 in. BSP*	2B

P=Manual Override (Omit for standard)

Seals

Buna N (Std.)	N
Fluorocarbon	V
Polyurethane	P

Voltage Std. Coil

0	Less Coil**
10	10 VDC†
12	12 VDC
24	24 VDC
36	36 VDC
48	48 VDC
24	24 VAC
115	115 VAC
230	230 VAC

**Includes Std. Coil Nut
† DS, DW or DL terminations only.

E-Coil

10	10 VDC
12	12 VDC
20	20 VDC
24	24 VDC

Termination (VDC) Std.Coil

DS	Dual Spades
DG	DIN 43650
DL	Leadwires (2)
DL/W	Leads w/Weatherpak® Connectors
DR	Deutsch DT04-2P Termination (VAC) Std. Coil
AG	DIN 43650
AP	1/2 in. Conduit Termination (VDC) E-Coil
EG	Deutsch DT04-2P (IP69K Rated)
EY	Metri-Pack® 150 (IP69K Rated)

Coils with internal diode are available. Consult factory.