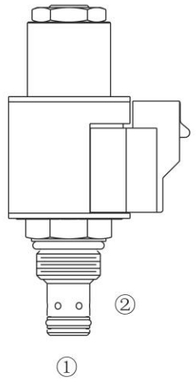
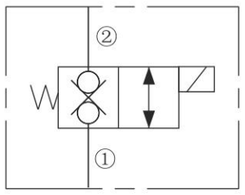
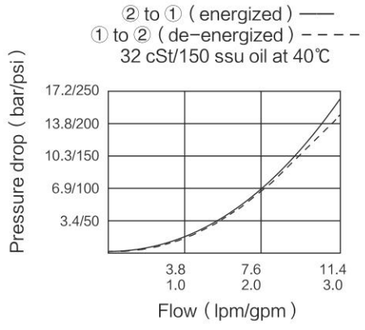


ISO SYMBOL



PERFORMANCE (Cartridge Only)



DESCRIPTION

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

OPERATION

When de-energized, INSV08-28 blocks flow in both directions. When energized, the valve's poppet opens the valve bi-directionally, allowing flow from ② to ① or ① to ② .

FEATURES

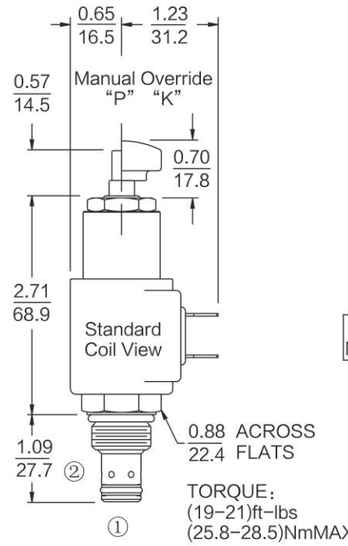
- Continuous-duty rated coil.
- Optional coil voltages and terminations.
- Cartridges are voltage interchangeable.
- Optional waterproof E-Coils rated up to IP69K.
- Hardened seat for long life and low leakage.
- Manual OverrideOptions.
- Industry common cavity.

RATINGS

Operating Pressure:207 bar (3000 psi)
Flow:11.4 lpm (3.0 gpm)
Internal Leakage:
5 drops/minute maximum at 207 bar (3000 psi)
Temperature:-40℃ to 120℃, with Buna N 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: 50 ms.; De-energized: 16 ms.
Initial Coil Current Draw at 20℃ :
Standard Coil: 1.2 amps at 12 VDC;
0.13 A at 115 VAC (full wave rectified).
E-Coil: 1.4 A at 12 VDC; 0.7 A at 24 VDC
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 ssu)
Cavity: T08-2E; See bottom of this catalog.

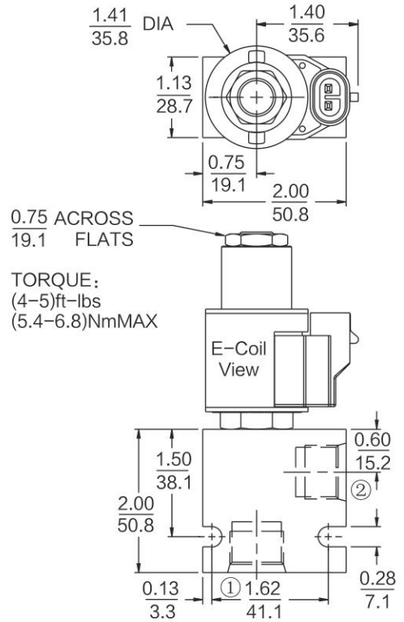
DIMENSIONS

Coil Must Be Installed With Lettering Up



INCH
MILLIMETRE

BSP BODY-55.9 mm



MATERIALS

Cartridge: Weight:0.18kg (0.40lbs); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings andback-ups standard.
Standard Ported Body:Weight: 0.16kg (0.35lbs); Anodized highstrength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ.
Standard Coil: Weight: 0.11kg (0.25lbs); Unitized thermoplastic encapsulated, Class H high temperature magnet wire.
E-Coil: Weight:0.41kg (0.90lb); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors.

TO ORDER

INSV08-28 - - - -

Options
None (Blank)
Manual Override P
Manual Override K

Porting
Cartridge Only 0
SAE 4 4T
SAE 6 6T
SAE 8 8T
1/4 in. BSP* 2B
3/8 in. BSP* 3B

Seals
Buna N (Std.) N
Polyurethane P
Fluorocarbon V

Voltage Std. Coil
0 Less Coil**
10 10 VDC†
12 12 VDC
24 24 VDC
36 36 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
ER Deutsch DT04-2P (IP69K Rated)
EL Leadwires (2)
EY Metri-Pack® 150 (IP69K Rated)

Coils with internal diode are