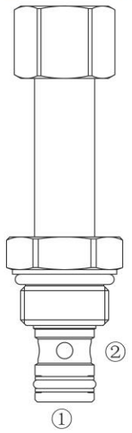
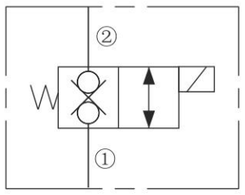
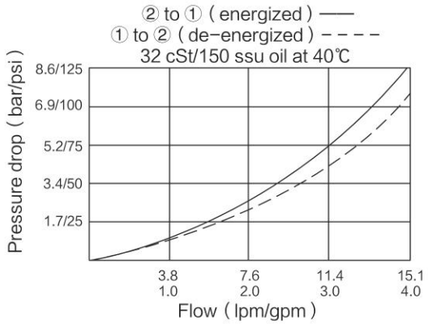


ISO SYMBOL



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-C28 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 .

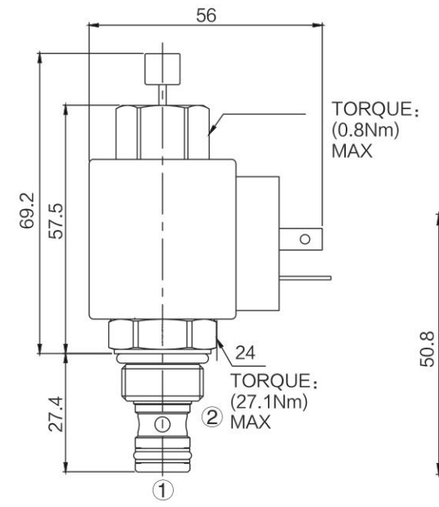
FEATURES

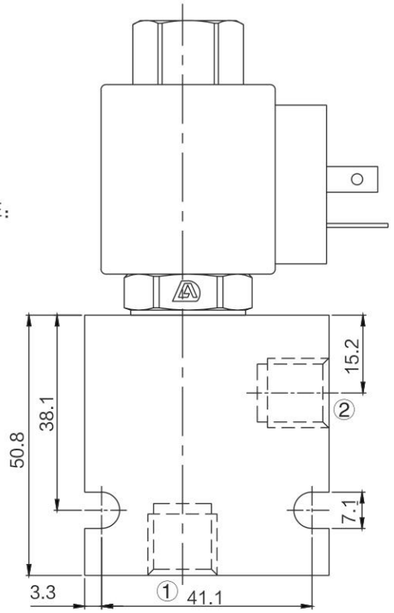
- Continuous-duty rated coil.
- Optional coil voltages and terminations.
- Cartridges are voltage interchangeable.
- Optional waterproof E-Coils rated up to IP69K.
- Hardened seat for long life and low leakage.
- Manual OverrideOptions.
- Industry common cavity.

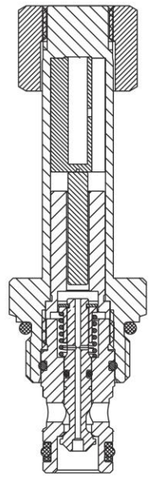
RATINGS

Operating Pressure:250 bar (3625 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







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-C28 - - - - -

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