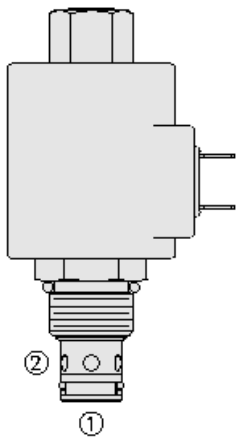




Overview



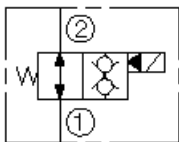
Description

The sv10-29xx is a solenoid operated, 2 port, normally open, bidirectional, screw-in hydraulic cartridge valve, designed to function as a load holding or blocking valve in applications requiring low internal leakage bidirectionally

Features

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

Symbol



Ratings

Pressure Ratings

Pressure rating 207 bar (3000 psi)
 Minimum differential pressure required 2.8 bar (40 psi) - **Note:** See graph

Flow Ratings

Maximum internal leakage 5 drops/min - **Note:** Max at 207 bar (3000 psi)

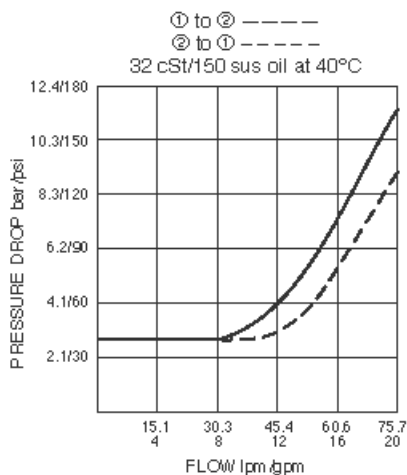
Temperature Ratings

Operating fluid temperature -40 to 120 °C (-40 to 250 °F) - **Note:** With buna N seals
 -30 to 205 °C (-20 to 400 °F) - **Note:** With fluorocarbon seals
 -50 to 80 °C (-60 to 175 °F) - **Note:** With polyurethane seals

Properties

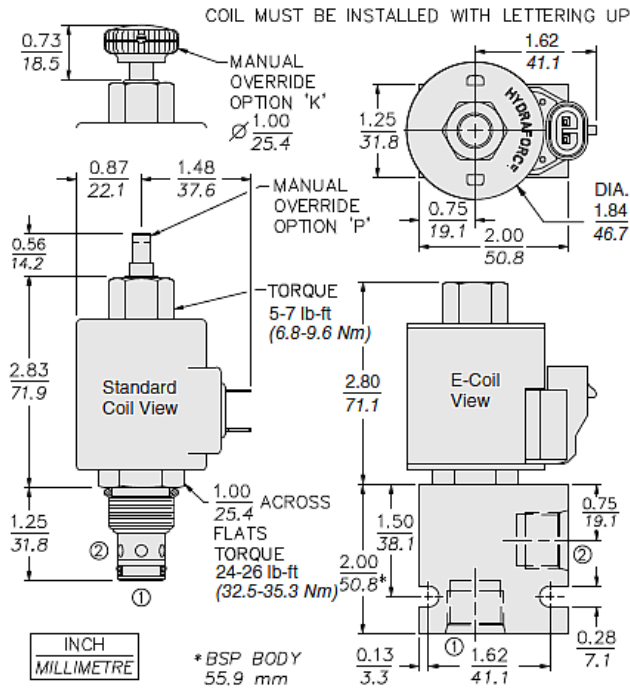
Materials steel with hardened work surfaces zinc-plated exposed

Performance





Dimensions



Materials

Materials

Cartridge: Weight: 0.16 kg (0.35 lb); Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N O-rings and polyester elastomer back-up standard.

Standard Ported Body: Weight: 0.16 kg (0.35 lb); Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi); Ductile iron bodies available; dimensions may differ.

Standard D-Coil: Weight each: 0.27 kg (0.60 lb); Unitized thermoplastic encapsulated, Class H high temperature magnet wire.

E-Coil: Weight: 0.41 kg (0.9 lb); Perfect wound, fully encapsulated with rugged external metal shell; Rated up to IP69K with integral connectors.

Installation Specifications

Cavity	VC10-2
Cartridge installation torque	32.5 to 35.3 N-m (24 to 26 ft-lb)
Coil nut torque	6.8 to 9.5 N-m (5 to 7 ft-lb)

Order Code

SV10-29			
Option		Voltage Std. Coil	Termination (VDC) Std. Coil
None (Blank)		0 Less Coil**	DS Dual Spades
Manual Override without knob	P	10 10 Vdc†	DG DIN 43650
Manual Override with knob	K	12 12 Vdc	DL Leadwires (2)
For Manual Override options see page 1.001.1		24 24 Vdc	DL/W Leads w/Weatherpack Connectors
Screen Option		36 36 Vdc	DR Deutsch DT04-2P
No Screen (Blank)		48 48 Vdc	
Screen	S	24 24 Vac	Termination (VAC) Std. Coil
Porting		115 115 Vac	AG DIN 43650
Cartridge Only	0	230 230 Vac	AP 1/2 in. Conduit
SAE 8	8T		Termination (VDC) E-Coil
3/8 in. BSP*	3B		ER Deutsch DT04-2P (IP69K Rated)
*BSP Body; U.K. Mfr. Only			EY Metri-Pack® 150 (IP69K Rated)
		E-Coil	Coils with internal diode are available. Consult factory.
		10 10 Vdc	
		12 12 Vdc	
		20 20 Vdc	
		24 24 Vdc	
Seals			
Buna N (Std.)	N		
Fluorocarbon	V		
Polyurethane	P		