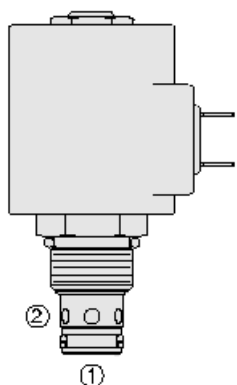




Overview



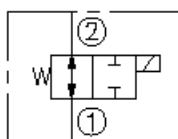
Description

A solenoid-operated, 2 port, normally open, direct-acting, spool-type, screw in hydraulic cartridge valve, designed to function as a bidirectional blocking valve. When de-energized, the SV10-25 allows flow in both directions. When energized, the cartridges spool shifts to close the bidirectional flow path.

Features

- Continuous-duty rated coil.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- Both ports may be fully pressurized.
- Efficient wet-armature construction.
- Unitized, molded coil design.
- Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- Industry common cavity.

Symbol



Ratings

Pressure Ratings

Pressure rating 207 bar (3000 psi)

Flow Ratings

Flow rating 22.7 lpm (6 gpm)

Maximum internal leakage 5 in³/min - **Note:** Max at 207 bar (3000 psi)

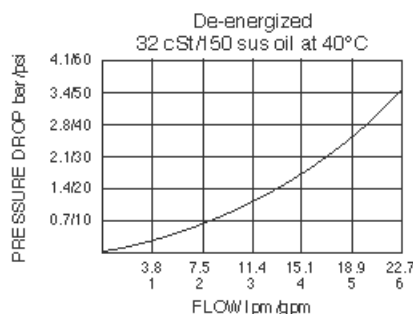
Temperature Ratings

Storage temperature -40 to 120 °C (-40 to 250 °F) - **Note:** Buna-n

Properties

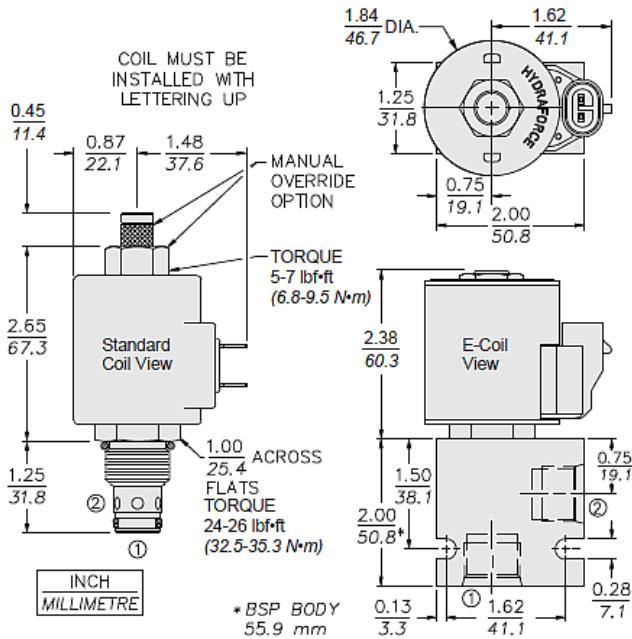
Materials Steel with hardened work surfaces zinc-plated exposed surfaces

Performance





Dimensions



Order Code

SV10-25			
Option		Voltage	Termination (VDC)
None (Blank)		Std. Coil	Std. Coil
Manual Override M		0 Less Coil**	DS Dual Spades
Manual Override Y		10 10 VDC†	DG DIN 43650
Manual Override J		12 12 VDC	DL Leadwires (2)
For Manual Override options see page 1.001.1		24 24 VDC	DL/W Leads w/Weatherpak® Connectors
Porting		36 36 VDC	DR Deutsch DT04-2P
Cartridge Only 0		48 48 VDC	Termination (VAC)
SAE 8 8T		24 24 VAC	Std. Coil
3/8 in. BSP* 3B		115 115 VAC	AG DIN 43650
*BSP Body; U.K. Mtr. Only		230 230 VAC	AP 1/2 in. Conduit
		**Includes Std. Coil Nut	Termination (VDC)
		† DS, DW or DL terminations only.	E-Coil
Seals		E-Coil	ER Deutsch DT04-2P (IP69K Rated)
Buna N (Std.) N		10 10 VDC	EY Metri-Pack® 150 (IP69K Rated)
Fluorocarbon V		12 12 VDC	Coils with internal diode are available. Consult factory.
		20 20 VDC	
		24 24 VDC	

POSITION	CODE	DESCRIPTION
		SV10-A25EG-H-J-L-M
A		Position Sensor Option
A	25	Standard
A	P25A	Position Indicator Switch with Restricted Flow
E		Manual Override
E	BLANK	NONE
E	J	Momentary Pull Override, #10-32 threads
E	M	Two Position Override, Red Knurled Knob
E	Y	Momentary Pull Override, Red Knurled Knob
G		Screen
G	BLANK	NONE
G	S	100 Mesh Screen
H		Line Body
H	0	No Body
H	6T	Aluminum SAE 6



POSITION	CODE	DESCRIPTION
H	8T	Aluminum SAE 8
H	6TD	Ductile Iron SAE 6
H	8TD	Ductile Iron SAE 8
H	2B	Aluminum BSPP 1/4" (2)
H	3B	Aluminum BSPP 3/8" (3)
H	4B	Aluminum BSPP 1/2" (4)
H	4BD	Ductile Iron BSPP 1/2" (4)
J		Seal
J	N	Buna-N
J	V	Fluorocarbon
J	P	Polyurethane
J	U	PPDI Urethane
L		Coil
L	0	No Coil
L	10DG	10 VDC, D-Coil, DIN 43650
L	10DL	10 VDC, D-Coil, Dual Lead Wires
L	10DR/D	10 VDC, D-Coil, Deutsch with Diode
L	10DS	10 VDC, D-Coil, Dual Spade
L	10EL	10 VDC, E-Coil, Dual Lead Wires
L	10ER	10 VDC, E-Coil, Deutsch
L	10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
L	12DG	12 VDC, D-Coil, DIN 43650
L	12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
L	12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long
L	12DL/W	12 VDC, D-Coil, Dual Lead Wires with Weatherpak
L	12DL/W/D	12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
L	12DR	12 VDC, D-Coil, Deutsch
L	12DR/D	12 VDC, D-Coil, Deutsch with Diode
L	12DR/Z	12 VDC, D-Coil, Deutsch with Zener Diode
L	12DS	12 VDC, D-Coil, Dual Spade
L	12EG	12 VDC, E-Coil, DIN 43650
L	12EJ	12 VDC, E-Coil, AMP Jr.
L	12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	12EL/W/Z	12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
L	12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
L	12ER	12 VDC, E-Coil, Deutsch
L	12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
L	12EY	12 VDC, E-Coil, Metri-Pack 150
L	12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
L	20DR/D	20 VDC, D-Coil, Deutsch with Diode
L	20DS	20 VDC, D-Coil, Dual Spade
L	20ER	20 VDC, E-Coil, Deutsch



POSITION	CODE	DESCRIPTION
L	24AG	24 VDC, D-Coil, DIN 43650
L	24AP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
L	24DG	24 VDC, D-Coil, DIN 43650
L	24DL	24 VDC, D-Coil, Dual Lead Wires
L	24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak
L	24DL/W/D	24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
L	24DP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
L	24DR	24 VDC, D-Coil, Deutsch
L	24DR/D	24 VDC, D-Coil, Deutsch with Diode
L	24DS	24 VDC, D-Coil, Dual Spade
L	24EG	24 VDC, E-Coil, DIN 43650
L	24EJ	24 VDC, E-Coil, AMP Jr.
L	24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
L	24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
L	24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
L	24ER	24 VDC, E-Coil, Deutsch
L	24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
L	24EY	24 VDC, E-Coil, Metri-Pack 150
L	24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode
L	36DS	36 VDC, D-Coil, Dual Spade
L	115AG	115 VAC, D-Coil, DIN 43650
L	115AP	115 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires
L	230AG	230 VAC, D-Coil, DIN 43650
L	230AP	230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires
M		Position Sensor Termination
M	BLANK	No Position Sensor
M	M3	Neutral Sense, M12-4P, Dual Output NC/NO
M	N3	Neutral Sense, DT04-4P, Dual Output NC/NO