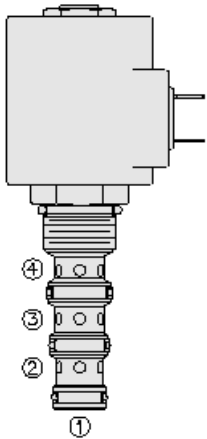




Overview



Description

The SV10-43X is a solenoid operated, 4 way, 2 position, direct acting, spool type, screw-in hydraulic cartridge valve.

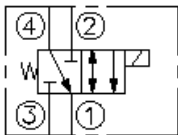
Operation

When de-energized, the SV10-43X allows flow from port 4 to port 1, while blocking port 3 to port 2. When energized, the spool shifts to allow flow from port 3 to port 4 and port 2 to port 1.

Features

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

Symbol



Ratings

Flow Ratings

Flow rating	22.7 lpm (6 gpm)
Maximum internal leakage	5 in ³ /min - Note: Max at 207 bar (3000 psi)

Pressure Ratings

Pressure rating	207 bar (3000 psi)
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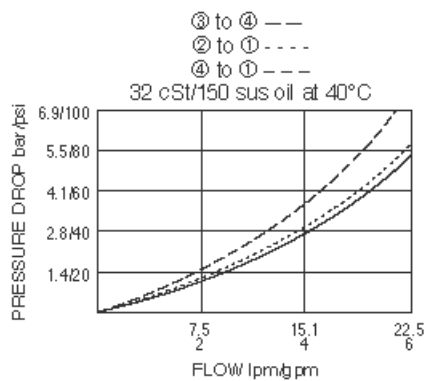
Temperature Ratings

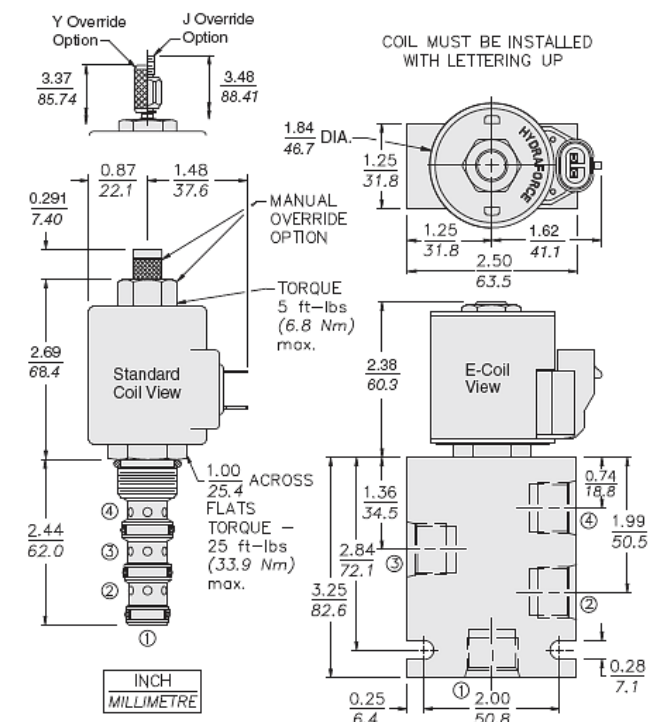
Operating fluid temperature	-40 to 120 °C (-40 to 248 °F) - Note: With buna N seals
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Properties

Materials	steel with hardened work surfaces zinc-plated exposed
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Performance





Cavity	VC10-4
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)

Seal kit	SK10-4X-MM
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SV10-43		-		-		-		-		-		-		-	
Option		None (Blank)		Voltage		Termination (Vdc)									
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									
				36 36 Vdc		DR Deutsch DT04-2P									
Porting		0		48 48 Vdc		Termination (Vac)									
Cartridge Only		8T		24 24 Vac		Std. Coil									
SAE 8				115 115 Vac		AG DIN 43650									
				230 230 Vac		AP 1/2 in. Conduit									
						Termination (Vdc)									
						E-Coil									
				10 10 Vdc		ER Deutsch DT04-2P (IP69K Rated)									
				12 12 Vdc		EY Metri-Pack® 150 (IP69K Rated)									
				20 20 Vdc											
				24 24 Vdc											
Seals		N													
Buna N (Std.)		V													
Fluorocarbon															

**Includes Std. Coil Nut

† DS, DW or DL terminations only.

Coils with internal diode are available. Consult factory.

CODE	DESCRIPTION
BLANK	NONE
J	Momentary Pull Override, #10-32 threads
M	Two Position Override, Red Knurled Knob



CODE	DESCRIPTION
Y	Momentary Pull Override, Red Knurled Knob

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8
6TD	Ductile Iron SAE 6

J Seal

CODE	DESCRIPTION
N	Buna-N
V	Fluorocarbon
P	Polyurethane
U	PPDI Urethane

L Coil

CODE	DESCRIPTION
0	No Coil
10DG	10 VDC, D-Coil, DIN 43650
10DL	10 VDC, D-Coil, Dual Lead Wires
10DR/D	10 VDC, D-Coil, Deutsch with Diode
10DS	10 VDC, D-Coil, Dual Spade
10EL	10 VDC, E-Coil, Dual Lead Wires
10ER	10 VDC, E-Coil, Deutsch
10ER/Z	10 VDC, E-Coil, Deutsch with Zener Diode
12DG	12 VDC, D-Coil, DIN 43650
12DL	12 VDC, D-Coil, Dual Lead Wires, 18 inches long
12DL/36	12 VDC, D-Coil, Dual Lead Wires, 36 inches long
12DL/W	12 VDC, D-Coil, Dual Lead Wires with Weatherpak
12DL/W/D	12 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
12DR	12 VDC, D-Coil, Deutsch
12DR/D	12 VDC, D-Coil, Deutsch with Diode
12DR/Z	12 VDC, D-Coil, Deutsch with Zener Diode
12DS	12 VDC, D-Coil, Dual Spade
12EG	12 VDC, E-Coil, DIN 43650
12EJ	12 VDC, E-Coil, AMP Jr.
12EL	12 VDC, E-Coil, Dual Lead Wires, 18 inches long
12EL/36	12 VDC, E-Coil, Dual Lead Wires, 36 inches long
12EL/W/Z	12 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
12EL/Z	12 VDC, E-Coil, Dual Lead Wires with Zener Diode
12ER	12 VDC, E-Coil, Deutsch
12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
12EY	12 VDC, E-Coil, Metri-Pack 150



CODE	DESCRIPTION
12EY/Z	12 VDC, E-Coil, Metri-Pack 150 with Zener Diode
20DR/D	20 VDC, D-Coil, Deutsch with Diode
20DS	20 VDC, D-Coil, Dual Spade
20ER	20 VDC, E-Coil, Deutsch
24AG	24 VDC, D-Coil, DIN 43650
24AP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
24DG	24 VDC, D-Coil, DIN 43650
24DL	24 VDC, D-Coil, Dual Lead Wires
24DL/W	24 VDC, D-Coil, Dual Lead Wires with Weatherpak
24DL/W/D	24 VDC, D-Coil, Dual Lead Wires with Weatherpak with Diode
24DP	24 VDC, D-Coil, 1/2" Conduit and Dual Lead Wires
24DR	24 VDC, D-Coil, Deutsch
24DR/D	24 VDC, D-Coil, Deutsch with Diode
24DS	24 VDC, D-Coil, Dual Spade
24EG	24 VDC, E-Coil, DIN 43650
24EJ	24 VDC, E-Coil, AMP Jr.
24EL	24 VDC, E-Coil, Dual Lead Wires, 18 inches long
24EL/36	24 VDC, E-Coil, Dual Lead Wires, 36 inches long
24EL/W/Z	24 VDC, E-Coil, Dual Lead Wires with WeatherPak and Zener Diode
24ER	24 VDC, E-Coil, Deutsch
24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
24EY	24 VDC, E-Coil, Metri-Pack 150
24EY/Z	24 VDC, E-Coil, Metri-Pack 150 with Zener Diode
36DS	36 VDC, D-Coil, Dual Spade
115AG	115 VAC, D-Coil, DIN 43650
115AP	115 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires
230AG	230 VAC, D-Coil, DIN 43650
230AP	230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires