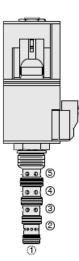


Overview



Description

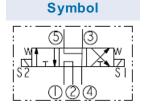
The SV10-59DX is a solenoid operated, 5 way, 3 position, direct acting, spool type, screw-in hydraulic cartridge valve.

Operation

When de-energized, flow between ports 3, 4, and 5, and with a power beyond between ports 1 and 2. When coil #1 is energized, flow is allowed from 1 to 3 and from 5 to 4, with power beyond blocked. When coil #2 is energized, flow is allowed from 1 to 5 and from 3 to 4, with power beyond blocked.

<u>Features</u>

- "Power Beyond" feature allows multiple functions, less hose, fewer drillings.
- Motor spool.
- Continuous-duty rated solenoid.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- Optional waterproof E-Coils rated up to IP69K.
- Cartridges are voltage interchangeable.



Ratings

Pressure rating	207 bar (3000 psi)	
Flow Ratings		
Flow rating	15.1 lpm (4.0 gpm)	
Maximum internal leakage	with ports 2, 4, and 5 blocked,	ote: At 207 bar (3000 psi) from port 1 to port 3 valve in neutral, and from port 1 to ports 2 and 4 ocked, valve energized S1, then S2
<u>Temperature Ratings</u>		
Operating fluid temperature	-40 to 100 °C (-40 to 212 °F) -26 to 204 °C (-15 to 400 °F) -54 to 107 °C (-65 to 225 °F)	 Note: With buna N seals Note: With viton seals Note: With polyurethane seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)	
Ambient temperature	-40 to 70 °C (-40 to 160 °F)	

Operating Parameters

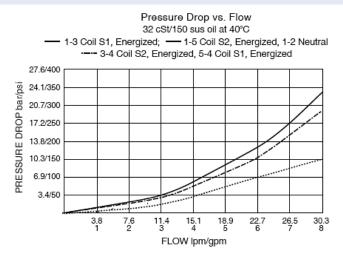
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination	20/18/14 per ISO 4406
level	

Properties

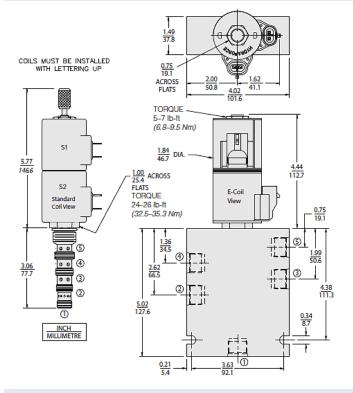
Unit weight	0.29 kg (0.65 lb)	- Note: Standard valve
Internal wetted surface area	259 cm² (40.2 in²)	- Note: Standard valve



Performance



Dimensions



Installation Specifications

Cavity	
Cartridge installation torque	
Coil nut torque	
Orientation restriction	

VC10-5 32.5 to 35.3 N-m (24 to 26 ft-lb) 6.8 to 9.5 N-m (5 to 7 ft-lb) None

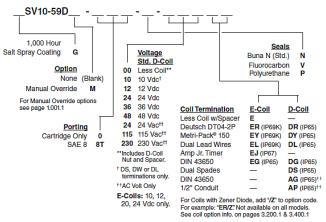
Accessories

Seal kit

SK10-5X-MMMM • Note: X = seal option

Order Code





Model Options

SV10-59DE-H-J-L

E Manual Override

CODE	DESCRIPTION
В	Momentary Push/Pull Override, 1.5" Diameter Aluminum Knob
BLANK	NONE
К	Three Position Override, 1.5" Diameter Aluminum Knob
М	Momentary Push/Pull Override, Red Knurled Knob
LI inc	Padu

H Line Body

CODE	DESCRIPTION
0	No Body
6T	Aluminum SAE 6
8T	Aluminum SAE 8

J Seal

CODE	DESCRIPTION
Ν	Buna-N
V	Fluorocarbon
Ρ	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



CODE	DESCRIPTION
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
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



CODE DESCRIPTION

230AP 230 VAC, D-Coil, 1/2" Conduit and Dual Lead Wires