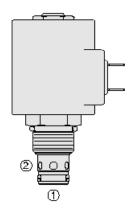
Overview



Symbol

SV10-20-0-N-0

www: e-mail: shop/sklep: www.salushydraulics.pl pl@salushydraulics.pl

Description shop/sklep: www.salushydraulics.pl/sklep/

A solenoid-operated, 2-way, normally closed, poppet-type, screw in hydraulic cartridge valve, with standard (sv10-20) and manual override (mo) options. This valve intended as a blocking or load holding device for low flow circuits having pull-only manual override requirements for handles or cable linkage

Operation

When de-energized, the SV10-20X acts as a check valve, allowing flow from port 1 to port 2, while blocking flow from port 2 to port 1. When energized, the valves poppet lifts to open the port 2 to port 1 flow path, while flow from port 1 to port 2 is severely restricted

Features

- · Continuous-duty rated coil.
- · Hardened seat for long life and low leakage.
- Optional coil voltages and terminations.
- Efficient wet-armature construction.
- Cartridges are voltage interchangeable.
- Unitized, molded coil design.
- Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- Industry common cavity.
- · Position sensor option.

Ratings

Pressure Ratings

Pressure rating 207 bar (3000 psi)

 Proof pressure
 345 bar (5000 psi)
 - Note: (sv10-20)

 Burst pressure
 896 bar (13000 psi)
 - Note: (sv10-20)

Flow Ratings

Flow rating - Note: See performance graph

Maximum internal leakage 3 drops/min - Note: At (sv10-20 and sv10-20m) 207 bar (3000 psi)

3 drops/min - Note: At (sv10-20j/y) 207 bar (3000 psi)

Temperature Ratings

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 fluorocarbon 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)

Other Ratings

Corrosion protection 960 hr salt spray per ASTM b117 (gsv10-20x)

Operating Parameters

Fluids Mineral based or synthetic hydraulic fluid with lubricating properties

Fluid viscosity range 7.4 to 420 cSt

Maximum operating contamination level 20/18/14 per ISO 4406

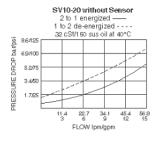
Properties

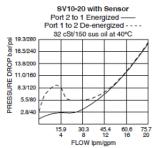
Unit weight	0.16 kg (0.36 lb) 0.18 kg (0.39 lb)	Note: SV10-20Note: SV10-20M
	0.17 kg (0.38 lb)	- Note: Sv10-20j/y
Internal wetted surface area	116 cm ² (18.0 in ²)	- Note: Sv1020/m
	135 cm² (21.0 in²)	Note: Sv1020j/y

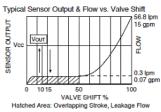
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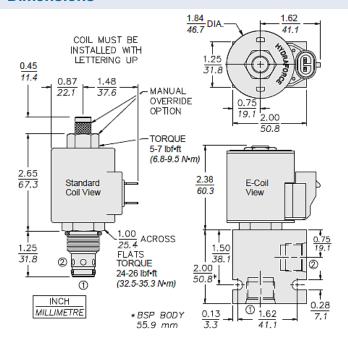
Performance







Dimensions



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Materials

Materials

Cartridge: Weight: 0.16 kg (0.36 lbs.); Weight with manual override M: 0.18 kg (0.39 lb) Weight with manual override J and Y: 0.17 kg (0.38 lb) Weight with sensor option: 0.49 kg (1.07 lb); Steel with hardened work surfaces. Steel with hardened work surfaces. Zinc-plated exposed surfaces; Buna N Oâ€′rings and polyester elastomer back-up standard.

Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.); 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 lbs.); Unitized thermoplastic encapsulated, Class H high temperature magnet wire.

E-Coil: Weight: 0.41 kg. (0.9 lbs.); 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)

Orientation restriction None

Accessories

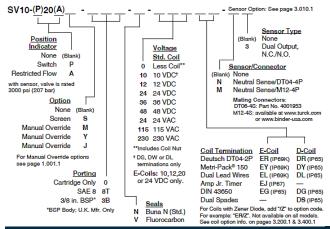
Seal kit SK10-2X-T (x = N - Note: (x = n, V and P seal option)

Housings

Position sensor technical reference

Coils

Order Code



POSITION	CODE	DESCRIPTION
		SV10-A20AEG-H-J-L-M
Α		Position Sensor Option
Α	20	Standard
Α	P20A	Position Indicator Switch with Resticted Flow
E		Manual Override
E	BLANK	NONE
E	J	Momentary Pull Override, #10-32 threads
E	М	Two Position Override, Red Knurled Knob
E	Υ	Momentary Pull Override, Red Knurled Knob
G		Screen
G	BLANK	NONE
G	S	100 Mesh Screen
Н		Line Body

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POSITION	CODE	DESCRIPTION
Н	0	No Body
Н	6T	Aluminum SAE 6
Н	8T	Aluminum SAE 8
Н	6TD	Ductile Iron SAE 6
Н	8TD	Ductile Iron SAE 8
Н	2B	Aluminum BSPP 1/4" (2)
Н	3B	Aluminum BSPP 3/8" (3)
Н	4B	Aluminum BSPP 1/2" (4)
Н	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

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SOLENOID CARTRIDGE VALVE POPPET, 2 WAY, NORMALLY CLOSED



POSITION	CODE	DESCRIPTION
L	20DS	20 VDC, D-Coil, Dual Spade
L	20ER	20 VDC, E-Coil, Deutsch
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

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