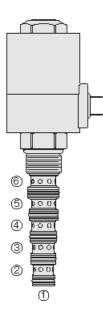


Overview



<u>Description</u>

A solenoid-operated, 2 position, 6 way, direct-acting spool-type, screw-in hydraulic cartridge valve. It is intended for use as a selector valve in selector or series/parallel drive circuits. When de-energized, the SV12-60X allows bidirectional flow between port 5 and port 6, and between port 1 and port 2, while blocking flow at port 3 and port 4. When energized, the spool shifts to allow bidirectional flow between port 4 and port 5 and between port 3 and port 2, while blocking flow at port 6.

<u>Features</u>

- Bi-directional flow.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- All ports may be fully pressurized.
- Heavy-duty waterproof Eâ€'Coils rated up to IP69K.
- External metal-shell coil design.

Symbol
6043 W

Ratings

<u>Pressure Ratings</u>	
Pressure rating	240 bar (3500 psi)
Proof pressure	483 bar (7000 psi)
Burst pressure	690 bar (10000 psi)
Flow Ratings	
Flow rating	- Note: See table (sheet 3) for specific circuit type
Maximum internal leakage	295 ml/min (18 in ³ /min) - Note: Max at 240 bar (3500 psi)
<u>Temperature Ratings</u>	
Operating fluid temperature	-40 to 100 °C (-40 to 212 °F) - Note: With buna N seals -26 to 204 °C (-15 to 400 °F) - Note: With viton seals
Storage temperature	-40 to 70 °C (-40 to 160 °F)
Ambient temperature	-40 to 70 °C (-40 to 160 °F)
<u>Other Ratings</u>	
Cycle life	1 million cycles at rated pressure and flow
Response	 135 ms Note: Pull-in, indication of shift with nominal voltage Note: Drop-out, indication of shift with nominal voltage Note: Drop-out, indication of shift with nominal voltage Note: Pull-in, per NFPA/T3.5.30-19XX Note: Drop-out, per NFPA/T3.5.30-19XX
Environmental rating	lp67 (with integral connectors)

Operating Parameters

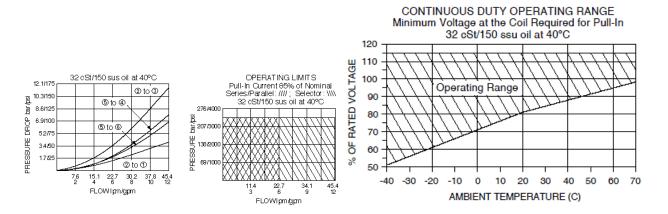
Fluids	Mineral based or synthetic hydraulic fluid with lubricating properties
Fluid viscosity range	7.4 to 420 cSt
Maximum operating contamination	1 20/18/14 per ISO 4406
level	



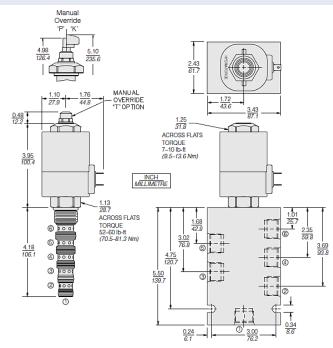
Properties

Unit weight	0.54 kg (1.20 lb)
Internal wetted surface area	423 cm ² (65.6 in ²)

Performance



Dimensions



Installation Specifications

Са	vit	y	
-			

Cartridge installation torque Maximum allowable torque Coil nut torque Orientation restriction VC12-6 70.5 to 81.4 N-m (52 to 60 ft-lb) 122 N-m (90 ft-lb) 9.5 to 13.6 N-m (7 to 10 ft-lb) None

Accessories

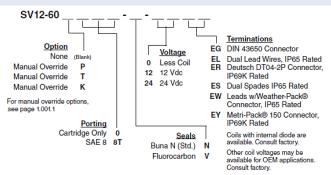
Seal kit

SK12-6X-MMMMM

- Note: X = seal option



Order Code



Model Options

SV12-60E-H-J-L

E Manual Override

CODE	DESCRIPTION
BLANK	NONE
К	Momentary Push Override, Knob
Р	Momentary Push Override, Button
т	Variable Position Override, Slotted Screw
H Line Body	

CODE	DESCRIPTION
0	No Body
8T	Aluminum SAE 8
10T	Aluminum SAE 10

J Seal

CODE	DESCRIPTION
Ν	Buna-N
V	Fluorocarbon
Ρ	Polyurethane
U	PPDI Urethane

L Coil

CODE	DESCRIPTION
0	No Coil
12EG	12 VDC, E-Coil, DIN 43650
12EL	12 VDC, E-Coil, Dual Lead Wires
12EL/W	12 VDC, E-Coil, Dual Lead Wires with WeatherPak
12ER	12 VDC, E-Coil, Deutsch
12ER/Z	12 VDC, E-Coil, Deutsch with Zener Diode
12ES	12 VDC, E-Coil, Dual Spade
12EY	12 VDC, E-Coil, Metri-Pack 150
24EG	24 VDC, E-Coil, DIN 43650
24ER	24 VDC, E-Coil, Deutsch
24ER/Z	24 VDC, E-Coil, Deutsch with Zener Diode
24ES	24 VDC, E-Coil, Dual Spade