

Overview

SV90-G39-0-G-24ERZ

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

<u>Description</u>

www.salushydraulics.pl/sklep/

The SV90-G39X is a direct-acting, spool-type, 2-position, 3-way directional control valve. It is a drop-in, flange mounted, cartridge type valve for use with general purpose hydraulic fluids. The coil is an integral part of the valve and is not serviceable.

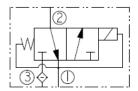
Operation

When de-energized, the SV90-G39X allows flow from port 2 to port 1, while blocking flow at port 3. When energized, the spool shifts to open from port 3 to port 2, while blocking flow at port 1

Features

- Bi-directional operation
- Reduced leakage
- · Low pressure drop
- · Economical drop-in style
- Fast response
- Corrosion-resistant plating
- Inlet port screen option for additional resistance to contamination
- · Higher flow capacity at lower temperatures
- Integral waterproof coil standard. See page 3.400.1 for a description of tests conducted to verify coil waterproofing
- Coil voltage range from 10 to 28 VDC
- Top-mounted coil with several push-on termination options
- Round flange with optional mounting plates provides more options for orientation
- · Retrofit mounting options also available

Symbol



Ratings

Pressure Ratings

Pressure rating 35 bar (500 psi) - Note: Port 1 - Note: Ports 2, 3

Proof pressure 54 bar (780 psi) - Note: Port 1 - Note: Port 1 - Note: Port 1 - Note: Ports 2, 3

Burst pressure 165 bar (2400 psi) - **Note:** All ports pressurized - **Note:** Ports 2 and 3 pressurized

Flow Ratings

Flow rating 30 lpm (8 gpm)

Maximum internal leakage 90 ml/min (5.5 in³/min) - Note: At 45 bar (650 psi)

Other Ratings

Cycle life Ten million cycles

Response 25 ms - **Note:** (pull-in) first indication of change of state with 100% voltage and flow rating

25 ms - Note: (drop-out) first indication of change of state with 100% voltage and flow rating

Environmental rating lp69k

Corrosion protection 960 hour salt spray per ASTM b117

Temperature Ratings

Operating fluid temperature -40 to 149 °C (-40 to 300 °F) - **Note:** With HNBR seals -26 to 204 °C (-15 to 400 °F) - **Note:** With fluorocarbon seals

Storage temperature -40 to 70 °C (-40 to 160 °F) Ambient temperature -40 to 120 °C (-40 to 248 °F)

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

hydraforce.com 05NO/2021 0025 SV90-G39



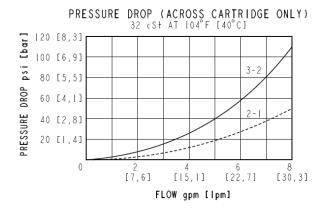
Properties

Unit weight 0.29 kg (0.65 lb) Internal wetted surface area 314 cm² (48.6 in²)

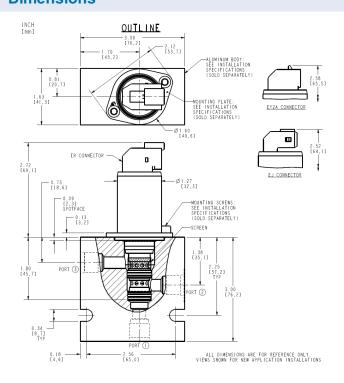
Electrical Parameters

4.83 ohms - Note: Coil 10 Vdc Coil resistance 7.28 ohms - Note: Coil 12 Vdc 10.05 ohms - Note: Coil 14 Vdc 18.35 ohms - Note: Coil 20 Vdc 29.54 ohms - Note: Coil 24 Vdc 40.36 ohms - Note: Coil 28 Vdc - Note: Coil 10 Vdc Valve inductance 65 mH 98 mH - Note: Coil 12 Vdc 146 mH - Note: Coil 14 Vdc 273 mH - Note: Coil 20 Vdc - Note: Coil 24 Vdc 418 mH 620 mH - Note: Coil 28 Vdc

Performance



Dimensions



hydraforce.com 05NOV2021 00:25 SV90-G39



Installation Specifications

Cavity VC-G024 - Note: Standard configuration

Installation type Flange mounted

Orientation restriction None

Mounting screw torque 3 to 4 N-m (2.2 to 3.0 ft-lb) - Note: For standard VC-G024 Cavity

Note For retro-fitting into older drop-in cavities and other mounting options, see "Mounting-

options-for-G3-valves" technical reference

Accessories

Mounting plate

HF P/N 4595096

- Note: Use with standard VC-G024 cavity

HF P/N 4210236

- Note: Use with retrofit VC-T001 cavity

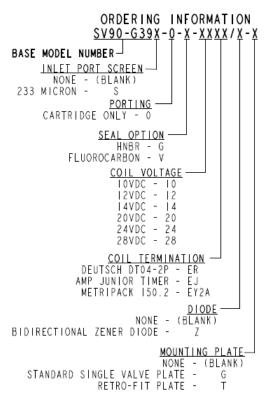
Mounting screw

M5 x 0,8 x 12 mm long, HF P/N: 4002609 (sold separately)

Seal kit SK-G027-X - Note: X=seal option

Ported test body HF P/N: 71607X0

Order Code



	POSITION	CODE	DESCRIPTION
			SV90-G39G-H-J-KL-U
G			Screen
G		BLANK	NONE
G		S	60 Mesh Screen
Н			Line Body
Н		0	No Body
Н		6T	Aluminum SAE 6
J			Seal
J		G	HNBR (Hydrogenated Nitrile Butadiene Rubber)
J		V	Fluorocarbon
J		Р	Polyurethane
K			Coil Voltage
K		10	10 VDC

hydraforce.com 05NOV2021 0025 SV90-G39



SOLENOID CARTRIDGE VALVE 2-POSITION, 3-WAY



POSITION	CODE	DESCRIPTION
K	12	12 VDC
K	14	14 VDC
K	20	20 VDC
K	24	24 VDC
K	28	28 VDC
L		Coil Termination
L	EJ	E-Coil, AMP Jr.
L	ER	E-Coil, Deutsch
L	EY2A	E-Coil, Metri-Pack 150.2
U		Mounting Plate
U	BLANK	None
U	G	Standard Single Valve Plate
U	Т	Retro-Fit Plate

hydraforce.com 05NOV2021 00:25 SV90-G39