

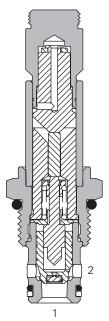
Operation

In the de-energized position the valve allows free flow in both directions. When the solenoid is energized the pilot poppet closes the orifice and the valve closes blocking flow from port 2 to 1 while allowing free flow from port 1 to 2.

Features

Hardened and ground working parts. Lapped seat for low leakage. IP69K Tough coil compatibility. Continuously rated. Compact design with low pressure drop. 350 bar working pressure.

Sectional View



Performance

Ratings and Specification	Ratings	and	Spe	cifica	ation	15
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Performance data is typical with fluid at 21,8 cSt (10	D5 SUS) and 49° C (120° F)
Typical application pressure (all ports)	350 bar (5000 psi)
Cartridge fatigue pressure (infinite life)	310 bar (4500 psi)
Rated flow	45 L/min (12 USgpm)
Internal leakage	less than 5 drops/min, max @ 350 bar (5000 psi)
Temperature range	-40° to 100°C (-40° to 212°F)
Coil duty	Continuous from 85% to 110% of nominal voltage
Cavity	C-10-2
Fluids	All general purpose hydraulics fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/16/13
Housing material (standard)	Steel
Weight including coil	0,18 kg (0.39 lbs)
Seal kit	565803 (Buna-N), 566086 (Viton [®])
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Viton is a registered trademark of E.I. DuPont

Description

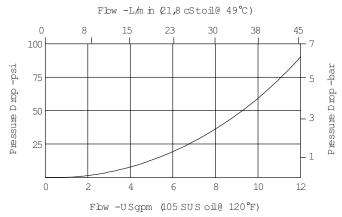
This is a 2-way, 2-position, poppet type, high pressure, pilot operated, normally open solenoid valve. This valve is used in applications requiring low leakage, such as load holding applications or as a general purpose diverter or dump valve.

Application Note:

This value is pilot operated and requires a minimum flow of 1-2 L/min (0.3-0.5 USgpm) in order to shift. For operation at very low flow conditions contact your Eaton representative.

Pressure Drop

Cartridge only



Port 1 to port 2 and port 2 to port 1 de-energized



available at:
ATP Hydraulik AG
Aahusweg 8
CH-6403 Küssnacht am Rigi
www.atphydraulik.com

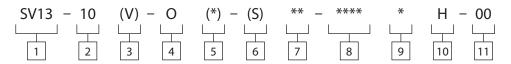




SV13-10-O/OP/OS - Solenoid Valve

Poppet type, normally open solenoid valve (free reverse flow) 45 L/min (12 USgpm) • 350 bar (5000 psi)

Model Code



Function

SV13 - Solenoid valve

2 Size

10 - 10 size

3 Seal Material

Blank - Buna-N

٧-Viton[®]

Style

O - Normally open

Manual Override Option

Blank - No manual override

P -Push type

S-Screw type

For valve dimensions with manual override option installed see page A-980.

Valve Housing Material

Port Size

Code	Port Size	Housing Number	
0	Cartridge only		
2G	1/4" BSPP	02-075102	
3G	3/8" BSPP	02-075103	
6T	SAE 6	02-075100	
8T	SAE 8	02-075101	

See section J for housing details.

8 Voltage Rating

00 -No coil

24D -24VDC

36D -36VDC

24VAC 24A -

115A - 115VAC

24B - 24VDC/w diode*

*Optional arc suppression diode.

10 Coil Series

H - 10 series, 29W

For coil part numbers and dimensions see section C.

11 Special Features

00 - None

(Only required if valve has special features, omitted if "00".)

12VDC 12D -

230A - 230VAC

12B - 12VDC/w diode*

J-

Connector Types

Blank - No coil

ISO 4400 DIN 43650 G-

0 -Spade terminals

W-Flying lead

N -Deutsch (DC only)

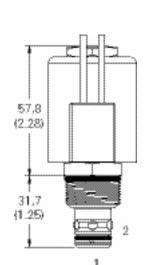
Amp JR (DC only) Υ-

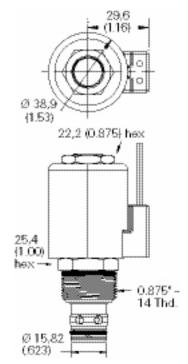
D-Metripack 150 male (DC only)

Metripack 280 male (DC only)

Dimensions mm (inch)

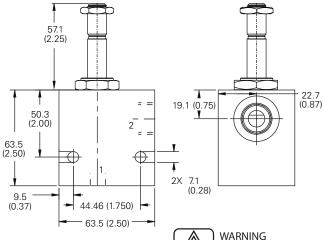
Cartridge Only





Torque cartridge in aluminum housing 68-75 Nm (50-55 ft lbs) Note: When solenoid valve is ordered as cartridge only, nut is included.

Installation Drawing



Maintain 5-8 Nm (4-6 ft lbs) maximum

torque on valve tube nut. Over tightening may cause valve failure.



