

Operation

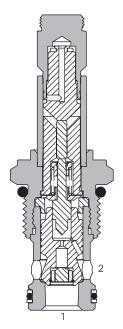
In the de-energized position the valve allows free flow in both directions.

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 Specifications

l at 21,8 cSt (105 SUS) and 49° C (120° F)
s) 350 bar (5000 psi)
re) 310 bar (4500 psi)
114 L/min (30 USgpm)
less than 5 drops/min, max @ 350 bar (5000 psi)
-40° to 100°C (-40° to 212°F)
Continuous from 85% to 110% of nominal voltage
C-12-2 or C-12-2U Add "U" after number if undercut is required. If undercut is not specified, expect 10 psi@15 USgpm and 20 psi @ 30 USgpm higher pressure drop.
All general purpose hydraulics fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Cleanliness code 18/16/13
Steel
0,27 kg (0.59 lbs)
02-165889 (Buna-N), 02-165888 (Viton [®])

Viton is a registered trademark of E.I. DuPont

Description

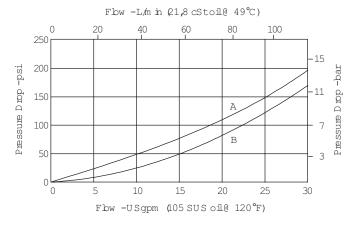
This is a 2-way, 2-position, poppet type, high pressure, pilot operated, normally open solenoid valve. This valve is used in applications requiring low leakage, such as load holding applications or as a general purpose diverter or dump valve.

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



A - Port 1 to port 2 de-energized B - Port 2 to port 1 de-energized



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





SV13-12-O/OP/OS - Solenoid Valve

Poppet type, normally open solenoid valve 114 L/min (30 USgpm) • 350 bar (5000 psi)

Model Code

SV13 -	- 12	(V) -	- 0	(*)	– (S)	** _	****	*	Н -	- 00
1	\Box	무	무	무	무	무		\Box	\Box	무
1	2	3	4	5	6	7	8	9	10	11

Function

SV13 - Solenoid valve

2 Size 12 - 12 size

3 Seal Material Blank - Buna-N ٧-Viton®

4 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.

6 Valve Housing Material Blank - Cartridge only S-Steel

Port Size

Code	Port Size	Housing Number			
0	Cartridge only				
4G	1/2" BSPP	02-175062			
4GU	1/2" BSPP	02-172512			
6G	3/4" BSPP	02-169665			
6GU	3/4" BSPP	02-162922			
10T	SAE 10	02-169744			
10TU	SAE 10	02-169817			
12T	SAE 12	02-169782			
12TU	SAE 12	02-169790			

See section J for housings.

Voltage Rating

00 -No coil 24A -24VAC 12VDC 12D -115A - 115VAC 24VDC 24D -230A - 230VAC

36D -36VDC 12VDC/w diode* 12B -24B -24VDC/w diode*

*Optional arc suppression diode.

9 **Connector Types**

Blank - No coil

ISO 4400 DIN 43650 G-Q-Spade terminals W-Flying lead

Deutsch (DC only) N -Υ -Amp JR (DC only)

D-Metripack 150 male (DC only)

Metripack 280 male (DC only)

10 Coil Series

H - 10 series, 29 W

For coil dimensions see section C.

11 Special Features

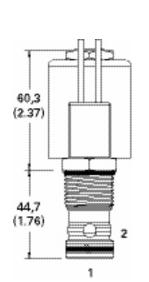
00 - None

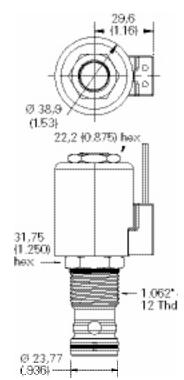
(Only required if valve has special features, omitted if "00.")

Dimensions

mm (inch)

Cartridge Only



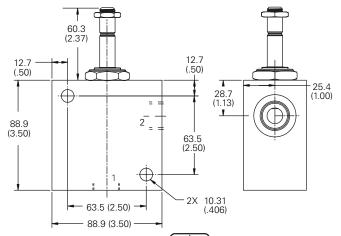


Torque cartridge in steel housing

Installation Drawing

102-115 Nm (75-85 ft lbs)

Note: When solenoid valve is ordered as cartridge only, coil nut is included.



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

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



