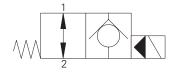
Α

Poppet type, normally open solenoid valve 227 L/min (60 USgpm) • 350 bar (5000 psi)



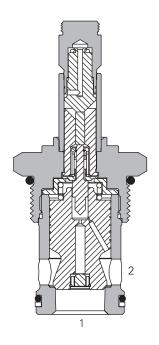
## Operation

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 Data

Ratings and Specifications

natings and Specifications	
Performance data is typical with fluid at 21,8 cST	(105 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	227 L/min (60 USgpm)
Internal leakage, port 2 to port 1	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-20-2
Fluids	All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Filtration	Cleanliness code 18/16/13
Housing material (standard)	Steel
Weight cartridge only	0,62 kg (1.37 lbs)
Seal kit	889615 (Buna-N), 889619 (Viton')
· · · · · · · · · · · · · · · · · · ·	

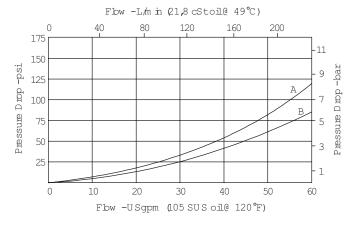
<sup>\*</sup>For application pressure over 280 bar (4000 psi) consult factory Viton is a registered trademark of E.I. DuPont

## 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.

## **Pressure Drop**

Cartridge only



A - Port 2 to port 1 de-energized

B - Port 1 to port 2



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





# SV13-20-O/OP/OS - Solenoid Valve

7

Code

0

6G

8G

12T

16T

Poppet type, normally open solenoid valve 227 L/min (60 USgpm) • 350 bar (5000 psi)

#### Model Code

SV13 -	- 20	(V) ·	- O	(*)	– (S)	*** _	_ ****	*	Н -	- 00
										$\Box$
1	2	3	4	5	6	7	8	9	10	11

Housing Number

02-175110

02-175111

02-175108

02-175109

Function

SV13 - Solenoid valve

2 Size

20 - 20 size

Seal Material

Blank - Buna-N Viton<sup>®</sup>

4 Style

O - Normally open

Manual Override Option

Blank - No manual override

P -Push type S-Screw type

For valve dimensions with manual overrideoptioninstalledseepageA-980.

Port Size

Port Size

3/4" BSPP

1" BSPP

SAE 12

SAE 16

See section J for housing details.

Cartridge only

00 -No coil

24D -

36VDC 36D -

12B - 12VDC/w diode\*

\*Optional arc suppression diode.

29,6

(1.16)

10 Coil Series

H - 10 series, 29 W

For coil part numbers and dimensions see section C.

11 Special Features

00 - None

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

8 Voltage Rating

12D -12VDC

24VDC

24A -24VAC

115A - 115VAC

@ 38,9

(1.53)

230A - 230VAC

24B - 24VDC/w diode\*

Connector Types

Blank - No coil

G-ISO 4400 DIN 43650

Q-Spade terminals

W-Flying lead

Deutsch (DC only) N -

Υ -Amp JR (DC only)

Metripack 150 male D-(DC only)

Metripack 280 male (DC only)

6 Valve Housing Material Blank - Cartridge only **Dimensions** 

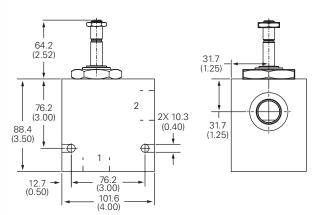
mm (inch)

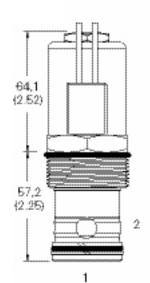
Cartridge Only

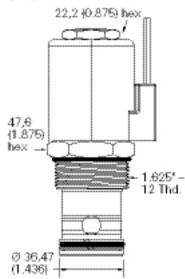
Torque cartridge in steel housing 163-183 Nm (120-135 ft lbs)

Installation Drawing

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



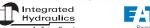






WARNING Maintain 5-8 Nm (4-6 ft lbs) maximum

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



EATON Screw-In Cartridge Valves E-VLSC-MC001-E December 2009