

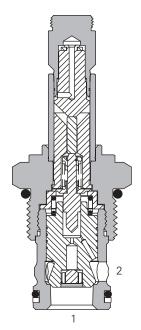
Operation

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

Patings and Specifications

Ratings and Specifications	
Performance data is typical with fluid at 21,8 cST (10	05 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	132 L/min (35 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-16-2
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	0,39 kg (0.85 lbs)
Seal kit	565810 (Buna-N), 889609 (Viton°)
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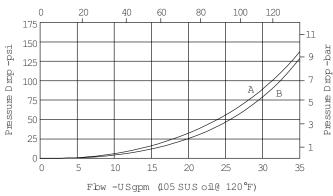
Description

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

Fbw -L/m in @1,8 cStoil@ 49°C)





B - Port 1 to port 2



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





SV13-16-O/OP/OS - Solenoid Valve

Poppet type normally open solenoid valve 132 L/min (35 USgpm) • 350 bar (5000 psi)

Model Code

SV13 -	16	(V) -	- O	(*) -	- (S)	** _	****	*	Н -	- 00
1	2	3	4	5	6	7	8	9	10	11

Function

SV13 - Solenoid valve

2 Size

16 - 16 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 overrideoptioninstalledseepageA-980.

Valve Housing Material Blank - Cartridge only

Dimensions

mm (inch)

Cartridge Only

Port Size

Code	Port Size	Housing Number			
0	Cartridge only				
4G	1/2" BSPP	02-175106			
6G	3/4" BSPP	02-175107			
10T	SAE 10	02-175104			
12T	SAE 12	02-175105			

Blank - No coil

G-

0 -

W-

N -

Υ-

D-

J-

See section J for housing details.

Voltage Rating **Connector Types**

00 -No coil

8

12D -12VDC 24VDC 24D -

36D -36VDC

24A -24VAC

115A - 115VAC

230A - 230VAC

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

*Optional arc suppression diode.

29.6

1.312*-

12 Thd:

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".)

Torque cartridge in steel housing 136-149 Nm (100-110 ft lbs)

ISO 4400 DIN 43650

Spade terminals

Deutsch (DC only)

Amp JR (DC only)

Metripack 150 male

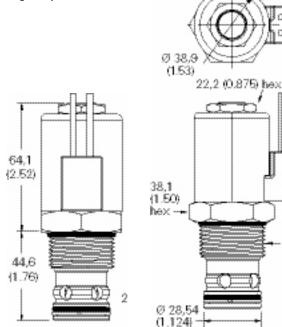
Metripack 280 male

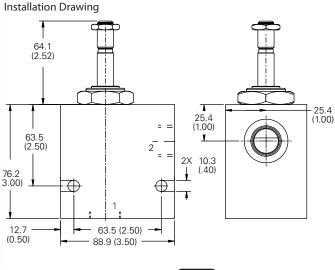
Flying lead

(DC only)

(DC only)

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.



