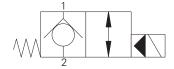
Poppet type, normally closed solenoid valve, (free reverse flow) 132 L/min (35 USgpm) • 350 bar (5000 psi)



### Operation

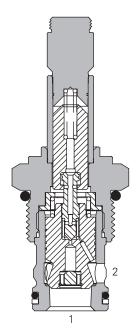
In the de-energized position the valve blocks flow from port 2 to 1 and free flow is allowed from port 1 to 2.

When the solenoid is energized the pilot poppet is pulled off the seat allowing the valve to open in both directions.

#### **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
naumus amu	Specifications

<u> </u>	
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	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 <sup>*</sup> )

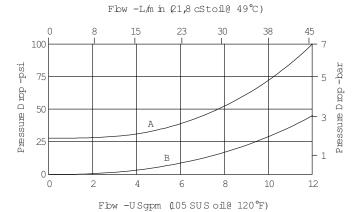
Viton is a registered trademark of E.I. DuPont

## Description

This is a 2-way, 2-position, poppet type, high pressure, pilot operated, normally closed 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 energized B - Port 1 to port 2 de-energized



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





# SV13-16-C/CM - Solenoid Valve

Poppet type, normally closed solenoid valve, (free reverse flow) 132 L/min (35 USgpm) • 350 bar (5000 psi)

#### **Model Code**

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

1 Function

SV13 - Solenoid valve

2 Size 16 - 16 size

3 Seal Material

Blank - Buna-N V - Viton\*

4 Style

C - Normally closed

5 Manual Override Option

Blank - No manual override M - Manual override

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

6 Valve Housing Material Blank - Cartridge only

S - Steel

7 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			

See section J for housing details.

8 Voltage Rating

00 - No coil 24A - 24VAC 12D - 12VDC 115A - 115VAC 24D - 24VDC 230A - 230VAC 36D - 36VDC 12B - 12VDC/w diode\*

24B - 24VDC/w diode\*

\*Optional arc suppression diode.

9 Connector Types

Blank - No coil

G - ISO 4400 DIN 43650 Q - Spade terminals

W - Flying lead

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

D - Metripack 150 male (DC only)

J - Metripack 280 male (DC only)

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".)

#### **Dimensions**

mm (inch)

Cartridge Only

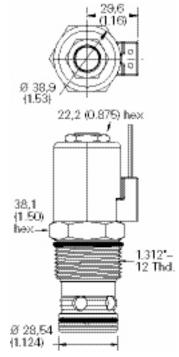
64,1

(2.52)

44,6

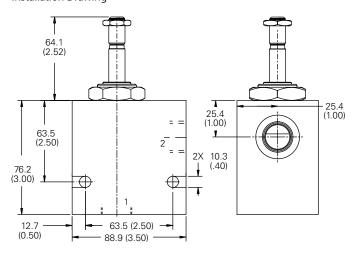
(1.76)

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



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

## Installation Drawing





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

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





2