

Operation

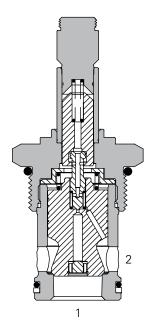
In the de-energized position the valve blocks flow from port 2 to 1 and free flow is allowed from port 1 to 2.

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

d 49°C (120°F)
350 bar (5000 psi)
310 bar (4500 psi)
227 L/min (60 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-20-2
All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc
Cleanliness code 18/16/13
Steel
0,62 kg (1.37 lbs)
889615 (Buna-N), 889619 (Viton®)

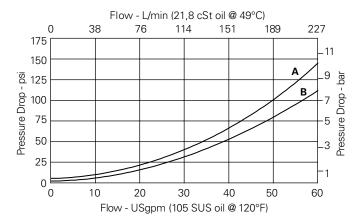
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Description

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





SV13-20-C/CM - Solenoid Valve

Poppet type, pilot operated solenoid valve 132 L/min (35 USgpm) • 350 bar (5000 psi)

Model Code

SV13 -	20	(V) -	С	(M) -	· (S)	** _	***	*	Н -	00
1	2	3	4	5	6	7	8	9	10	11

1 Function

SV13 - Solenoid valve

Size

20 - 20 size

3 | Seal Material

Blank - Buna-N **V** -Viton®

4 Style

C - Normally closed

Manual Override Option

Blank - No manual override Manual override For valve dimensions with manual override option installed see page A-980.

6 | Valve Housing Material

Blank - Cartridge only S-Steel

Dimensions

mm (inch)

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

7 | Port Size

Code	Port Size	Housing Number	
0	Cartridge only		
6G	3/4" BSPP	02-175110	
8G	1" BSPP	02-175111	
12T	SAE 12	02-175108	
16T	SAE 16	02-175109	

See section J for housing details.

8 **Voltage Rating**

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

> 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 part numbers and dimensions see section C.

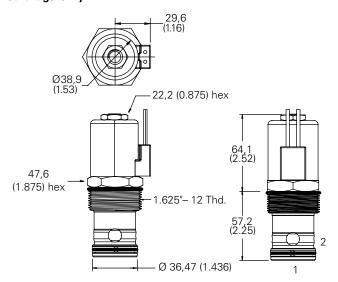
11 Special Features

00 - None

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

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

Cartridge Only





WARNING

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

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



