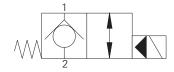
2-way, 2-position, normally closed, poppet type solenoid valve 114 L/min (30 USgpm) • 350 bar (5000 psi)



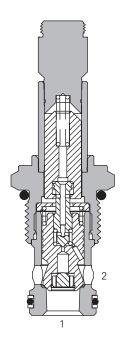
Operation

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	Snoc	ifica	tion	

natings and specimeations	
Performance data is typical with fl	uid at 21,8 cST (105 SUS) and 49°C (120°F)
Typical application pressure (all po	orts) 350 bar (5000 psi)
Cartridge fatigue pressure (infinite	e life) 310 bar (4500 psi)
Rated flow	114 L/min (30 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-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.
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	0,27 kg (0.59 lbs)
Seal kit	02-165889 (Buna-N), 02-165888 (Viton')

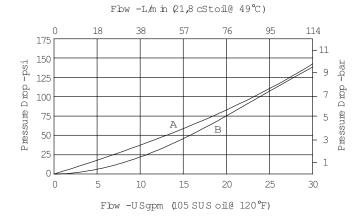
Viton is a registered trademark of E.I. DuPont

Description

This is a 2-way, 2-position, poppet type, high pressure, pilot operated, normally 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 1 to port 2

B - Port 2 to port 1 energized



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





SV13-12-C/CM - Solenoid Valve

2-way, 2-position, normally closed, poppettype solenoid valve 114 L/min (30 USgpm) • 350 bar (5000 psi)

Model Code

SV13 -	- 12	(V) ·	- C	(M)	– (S)	** _	****	*	Н -	- 00
1	2	3	4	5	6	7	8	9	10	11

1 Function

SV13 - Solenoid valve

2 Size 12 - 12 size

3 Seal Material Blank - Buna-N

V - Viton^o

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 A - Aluminum S - Steel (standard)

7 Port Size

Code	Port Size	Housing Number	
		Aluminium	Steel
0	Cartridge only		
4G	1/2" BSPP	02-161118	02-172062
4GU	1/2" BSPP	02-161116	02-172512
6G	3/4" BSPP	02-161117	02-169665
6GU	3/4" BSPP	02-161115	02-162922
10T	SAE 10	02-160640	02-169744
10TU	SAE 10	02-160641	02-169817
12T	SAE 12	02-160644	02-169782
12TU	SAE 12	02-160645	02-169790

See section J for housing details.

8 Voltage Rating

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

36D - 36VDC 24B - 24VDC/w diode* 24A - 24VAC *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

Forcoilpartnumbersanddimensions see section C.

11 Special Features

00 - None

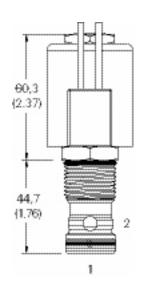
(Only required if valve has special features, omitted if "00.")

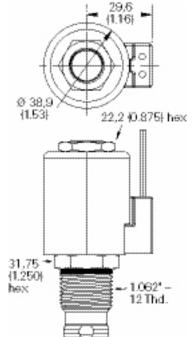
Dimensions

mm (inch)

Torque cartridge in housing A - 81-95 Nm (60-70 ft lbs) S - 102-115 Nm (75-85 ft lbs)

Cartridge Only

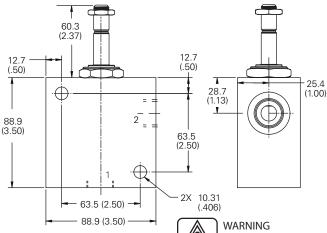




Note: When solenoid valve is ordered as cartridge only, coil nut is included.

Note: For applications above 210 bar please consult our technical department or use the steel body option.

Installation Drawing (Steel)





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

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





@ 23,77

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