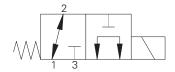
3-way, 2-position spool type solenoid valve 11 L/min (3 USgpm) • 210 bar (3000 psi)



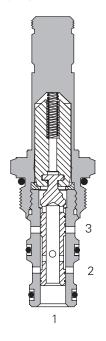
Operation

In the de-energized position this valve allows flow from port 1 to 2 while port 3 is blocked. In the energized position flow is allowed from port 3 to port 1 while port 2 is blocked.

Features

Hardened, ground and honed working parts to limit leakage. IP69K Tough coil compatibility. Continuously rated. Compact design with low pressure drop. Rated pressure on all ports.

Sectional View



Performance Data

Performance data is typical with fluid at 21,8 cST (105 SUS) and 49°C (120°F)		
Typical application pressure (all ports)	210 bar (3000 psi)	
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)	
Rated flow	11 L/min (3 USgpm)	
Internal leakage (per land)	82 cm3/min (5 in3/min) max @ 210 bar (3000 psi)	
Temperature range	-40° to 120°C (-40° to 248°F)	
Coil duty	Continuous from 85% to 110% of nominal voltage	
Cavity	C-8-3	
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)	Aluminum	
Weight including coil	0,30 kg (0.66 lbs)	
Seal kit	02-160755 (Buna-N), 02-160756 (Viton')	

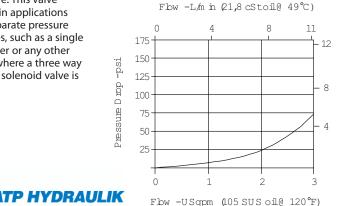
Pressure Drop -bar

Viton is a registered trademark of E.I. DuPont

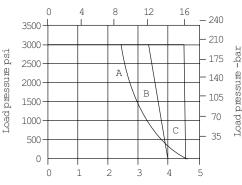
Description

This is a 3-way 2-position, direct acting, spool type solenoid valve. This valve can be used in applications requiring separate pressure and tank lines, such as a single acting cylinder or any other application where a three way two position solenoid valve is needed.

Pressure Drop







Flow -Lim in 21,8 cStoil@ 49°C)

Flow -USgpm (105 SUS oil@ 120 $^{\circ}$ F)

available at:

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

Pressure Drop vs. Flow

Operating Limits

- A Selector 1 to 3
- B Normally Open
- C Normally closed and Selector 1 to 2

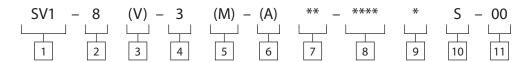




SV1-8-3/3M - Solenoid Valve

3-way, 2-position spool type solenoid valve 11 L/min (3 USgpm) • 210 bar (3000 psi)





24VAC

12B - 12VDC/w diode*

24B - 24VDC/w diode*

*Optional arc suppression diode.

115A - 115VAC

230A - 230VAC

Function

SV1 - Solenoid valve

2 Size

8 - 8 size

Seal Material

Blank - Buna-N Viton[®]

4 Style

3 - 3-way, 2 position

Manual Override Option

Blank - No manual override

M -Knob type

For valve dimensions with manual overrideoptioninstalledseepageA-980. Port Size

Code	Port Size	Housing Number	
0	Cartridge only		
2G	1/4" BSPP	02-160739	
3G	3/8" BSPP	02-160740	
4T	SAE 4	02-160741	
6T	SAE 6	02-160742	

24A -

See section J for housing details.

8 Voltage Rating

Blank - No coil 12D -12VDC 24VDC 24D -

36VDC 36D -

Q-

9

G-

Blank - No coil

ISO 4400 DIN 43650 Spade terminals W-Flying lead

Connector Types

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

D-Metripack 150 male (DC only)

1-Metripack 280 male (DC only)

10 Coil Series

S - 8 series, 20 W

For coil part numbers and dimensions see section C.

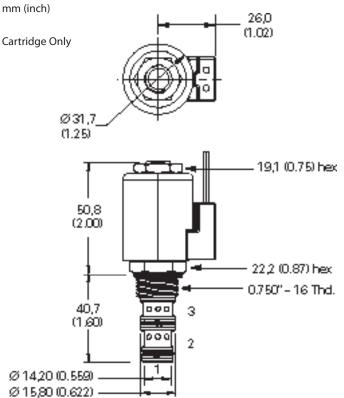
11 Special Features

00 - None

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

Valve Housing Material Omit for cartridge only

Dimensions

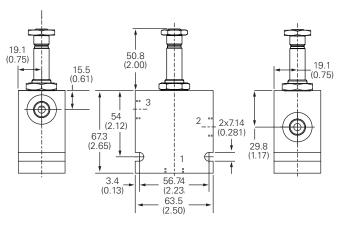


Torque cartridge in steel or (25-30 ft lbs)

Installation Drawing

aluminum housing 34-41 Nm

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.



