

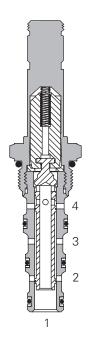
Operation

In the de-energized position this valve allows flow from port 4 to port 1 and from port 3 to port 2. In the energized position flow is allowed from port 3 to port 4 and from port 2 to port 1.

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

Ratings and Specifications

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-8-4		
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	0,31 kg (0.69 lbs)		
Seal kit	02-160757 (Buna-N), 02-160758 (Viton°)		
Vitaria a manistra de			

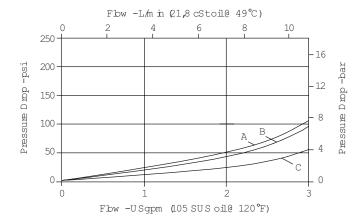
Viton is a registered trademark of E.I. DuPont

Description

This is a 4-way 2-position, direct acting, spool type solenoid valve. This valve can be used in applications where the motion of a double acting cylinder or a motor needs to be reversed.

Pressure Drop

Cartridge only



- A Port 3 to port 4 or port 3 to port 2
- B Port 4 to port 1
- C Port 2 to port 1





SV1-8-4/4M - Solenoid Valve

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

Model Code

(M) - (A)00 8

Function

SV1 - Solenoid valve

2 Size 8 - 8 size

Seal Material Blank - Buna-N

٧-Viton

4 Style

4 - 4-way, 2 position

Manual Override Option

Blank - No manual override Manual override M -

Forvalvedimensions with manual overrideoptioninstalled, see page A-980.

Valve Housing Material Omit for cartridge only A - Aluminum

Port Size

Code	Port Size	Housing Number	
0	Cartridge only		
2G	1/4" BSPP	02-160747	
3G	3/8" BSPP	02-160748	
4T	SAE 4	02-160749	
6T	SAE 6	02-160750	

See section J for housing details.

8 Voltage Rating

24A - 24VAC 00 -No coil 12VDC 115A - 115VAC 12D -230A - 230VAC 24D -24VDC 36D -36VDC

12B - 12VDC/w diode* 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

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

D-Metripack 150 male (DC only)

J-Metripack 280 male (DC only)

10 Coil Series

S - 8 series, 20 W

Forcoilpartnumbersanddimensions see section C.

11 Special Features

00 - None

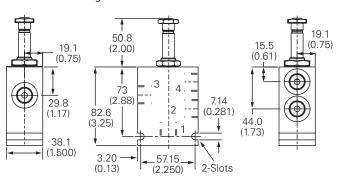
(Only required if valve has special features omitted if "00".)

Dimensions

mm (inch) 26.0 (1.02)Cartridge Only Ø31.7 (1.25)19.1 (0.75) hex 50,8 (2.00)22,2 (0.87) hex 0.750"-16 Thd. 4 54,6 (2.15)3 Ø 12,62 (0.497)

Torque cartridge in steel housing 34-41 Nm (25-30 ft lbs) Note: When solenoid valve is ordered as cartridge only, 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.



Ø 1420 (0.559)



Ø 15,80(0,622)