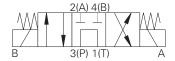
SV9-8 - Solenoid valve

Spool type, 4-way, 2-position Up to 13 L/min (3.5 USgpm) • Up to 210 bar (3000 psi)

SV9-8-A

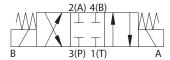


Operation

In the central de-energized position flow is allowed from inlet port 3 to tank port 1 and ports 2 and 4 are blocked

When solenoid 'A' is energized flow is allowed from ports 3 to 4 and ports 2 to 1. When solenoid 'B' is energized flow is allowed from port 3 to port 2 and from port 4 to port 1.

SV9-8-E

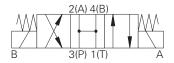


Operation

In the de-energized (center) position, all ports are blocked. When solenoid A is energized, flow is directed from port 3 to port 4 and from port 2 to port 1.

When solenoid B is energized, flow is directed from port 3 to port 2 and from port 4 to port 1.

SV9-8-B

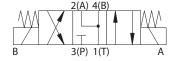


Operation

In the central de-energized position all ports are open. When solenoid 'A' is energized flow is allowed from port 3 to port 4 and port 2 to port 1.

When solenoid 'B' is energized flow is allowed from port 3 to port 2 and from port 4 to port 1.

SV9-8-F



Operation

In the de-energized (center) position, port 1, port 2, and port 4 are open to each other while port 3 is blocked. When solenoid A is energized, flow is directed from port 3 to port 4 and from port 2 to port 1. When solenoid B is energized, flow is directed from port 3 to port 2 and from port 4 to port 1.

Performance data

Ratings and specifications

210 bar (3000 psi)
3,000 psi per NFPA/T2-6-1 R2-2000
11,000 psi per NFPA/T2-6-1 R2-2000
13.2 L/min (3.5 USgpm)
-40° to 120°C (-40° to 248°F)
23W
C-8-4
(1.2 lbs)
164 cm³/min (10 in³/min) max. @ 210 bar (3000 psi)
All general purpose hydraulic fluids such as: MIL-H-5606, SAE 10, SAE 20 etc.
Cleanliness code 18/16/13
02-160757 (Buna-N), 02-160758 (Viton®)

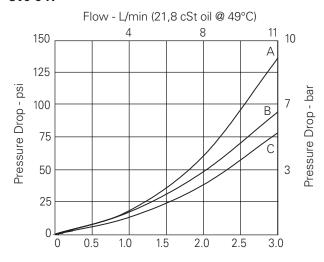
Viton is a registered trademark of E.I. DuPont

*AC coils must be used with a rectifying connector

Endurance tested to 1 million cycles at full rated flow and pressure.

Pressure drop

SV9-8-A



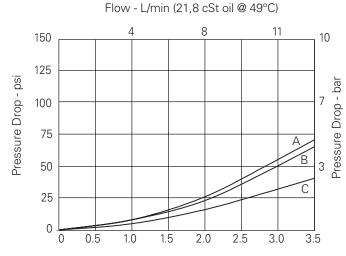
Flow - USgpm (105 SUS oil @ 120°F)

A - Port 3 or port 2 or port 4

B - Port 3 to port 1 de-energized

C - Port 2 or port 4 to port 1

SV9-8-B



Flow - USgpm (105 SUS oil @ 120°F)

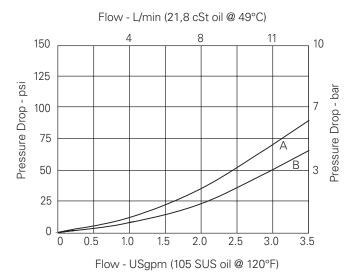
A - Port 4 or port 1 to port 4

Port 3 to port 1 de-energized **B** - Port 3 to port 2 or port 4

C - Port 2 or port 1

Port 2 or 4 to 1 de-energized

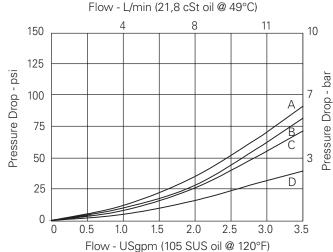
SV9-8-E



A - Port 3 to port 2 or port 4

B - Port 2 to port 4 or port 1

SV9-8-F



A - Port 4 or port 1 de-energized

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

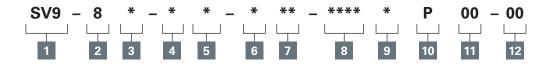
C - Port 2 or port 1 de-energized

D - Port 2 or 1

SV9-8 - Solenoid valve

4-way, 3-position, screw-in cartridge, solenoid valve Up to 13 L/min (3.5 USgpm) • Up to 210 bar (3000 psi)

Model code



1 Function

SV9 - Solenoid valve

2 Size

8 - 8 size

3 Seal material

N - Buna-N

V - Viton

5 Manual override option

0 - No manual override

M - Manual override

For valve dimensions with manual override, see pages A980.

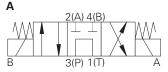
6 Housing Material

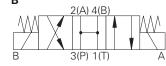
0 - Cartridge only

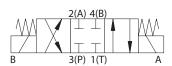
A - Aluminum

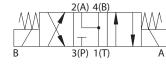
S - Steel

4 Spool center condition









7 Port sizes

Ε

Code	Port size	Housing number	
		Aluminium	Steel
0	Cartridge only		
2G	1/4" BSPP	02-160747	02-160753
3 G	3/8" BSPP	02-160748	02-160754
4T	SAE 4	02-160749	02-160751
6T	SAE 6	02-160750	02-160752

F

See section J for housing details.

8 Voltage rating 1

000 - No coil

012D - 12VDC

024D - 24VDC

2400

012B - 12VDC/w diode*

024B - 24VDC/w diode*

*Optional arc suppression diode.

9 Connector types 1

0 - No coil

G - ISO 4400 DIN 43650

N - Deutsch male

W - Leadwire

C - Deutch on Leads

H - Metripak 150 on Leads

F - Weatherpak Male on Leads

Y - Amp JR (DC only)

D - Metripack 150 male (DC only)

J - Metripack 280 male (DC only)

10 Coil series 1

0 - No Coil

P - 8 series, 23W

11 Coil special features 1

00 - None

12 Valve Special features ¹

00 - None

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

¹ These model digits are not stamped on the valve.

SV9-8 - Solenoid valve

Spool type, 4-way, 2-position Up to 13 L/min (3.5 USgpm) • 210 bar (3000 psi)

Dimensions

mm (inch)

Valve is shown with "W" coil. See other coils in Section C.

This valve uses the P series, 8 size, 23 W coil.

Coil Nut	565558
Coil Spacer	02-186730

