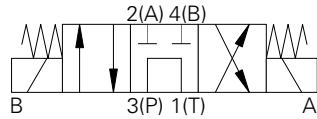


SV9-8-A - Solenoid Valve

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



Operation

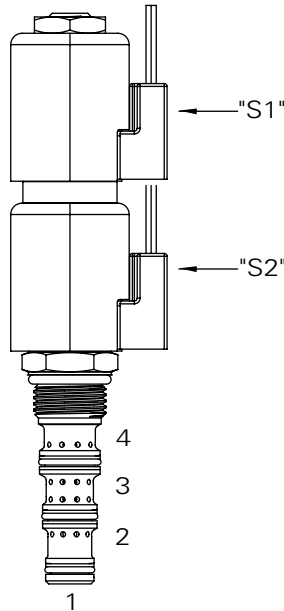
In the central de-energized position flow is allowed from inlet port 3 to tank port 1 and ports 2 and 4 are blocked

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.

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)
Fatigue pressure	3,000 psi per NFPA/T2-6-1 R2-2000
Rated burst pressure	11,000 psi per NFPA/T2-6-1 R2-2000
Max flow	13.2 L/min (3.5 USgpm)
Temperature range	-40° to 120°C (-40° to 248°F)
Coil duty	Continuous from 85% to 110% of nominal voltage
Coil power	23W
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
Standard housing material	Aluminum
Weight including coil	(1.2 lbs)
Seal kit	02-160757 (Buna-N), 02-160758 (Viton®)
Internal leakage	164 cm ³ /min (10 in ³ /min) max. @ 210 bar (3000 psi)

Viton is a registered trademark of E.I. DuPont

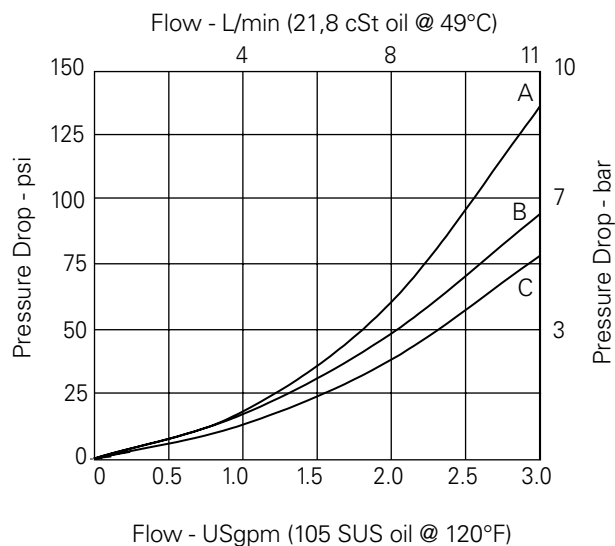
*AC coils must be used with a rectifying connector

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

Description

This is a 4 way 3 position, direct acting, spool type solenoid valve. In the de-energized condition the inlet Port 3 is open to tank with port 2 and 4 blocked. This valve is ideal for small flow applications where an actuator needs to be moved in both directions. In the de-energized condition inlet flow is allowed to tank.

Pressure Drop



- 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