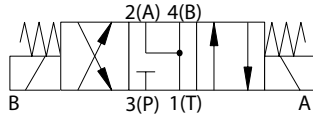


SV9-8-F - Solenoid Valve

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



Operation

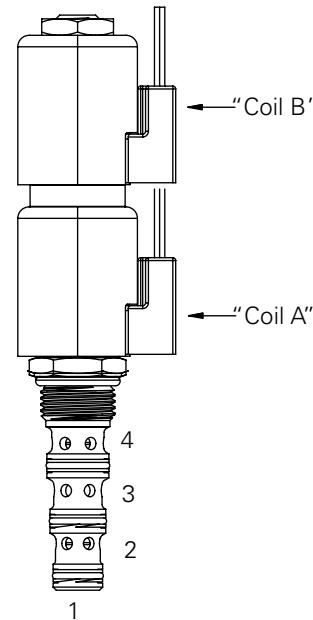
In the de-energized (center) position, port 1, port 2, and port 4 are open to each other while port 3 is blocked. When solenoid A is energized, flow is

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.

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)

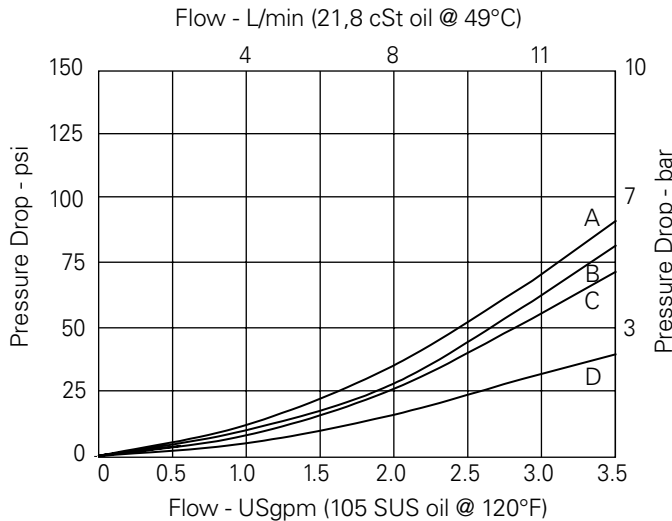
Typical application pressure (all ports)	210 bar (3000 psi)
Cartridge fatigue pressure (infinite life)	210 bar (3000 psi)
Fatigue pressure	3,000 psi per NFPA/T2-6-1 R2-2000
Rated burst pressure	11,000 psi per NFPA/T2-6-1 R2-2000
Max flow	13.2 L/min (3.5 USgpm)
Temperature range	-40° to 120°C (-40° to 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
 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 Port 2 and 4 are open to tank with the inlet port 3 blocked. This valve is ideal for small flow applications where an actuator needs to be moved in both directions and stopped in any position while allowing the service ports to decay to tank pressure in the de-energized condition.

Pressure Drop



- 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

