

Solenoid Valves Catalog 4-Way, 2-Position Spool SV09-24-01





OPERATION

This is a direct-acting, 4-way, 2-position, spool-type solenoid valve.

Recommend the following connections: port 3 to inlet, ports 2 & 4 to actuator(s) and port 1 to drain. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation. The 09 Series valve uses a 10 size cavity with an 08 size tube and coil, providing an optimal product for high flow and low pressure, while minimizing pressure drop in the system.

Shown with Standard Coil and Filter

APPLICATIONS

Common applications include low-pressure on-off control of dual clutch systems or pressure-assist brakes. It can also be used for low pressure bi-directional control of motors. Refer to example circuits. Use the optional screen to help protect the actuator from large particles. Select the robust coil for those extreme environmental conditions – voltage extremes, high temperature, shock & vibration, chemicals, and/ or water ingression.



Shown with Robust Coil and Filter

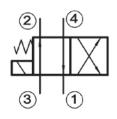
SPECIFICATIONS

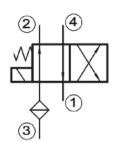
Rated pressure*	100 bar [1450 psi]
Maximum flow at 7 bar	20 l/min
[100 psi]	[5.33 US gal/min]
Leakage	75 ml/mln
	[5.6 ln³/mln]
Weight Including coil	0.37 kg [0.78 lb]
Cavity	SDC10-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173800539
	(no coil O-rings needed)

 $^{^{}st}$ Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC

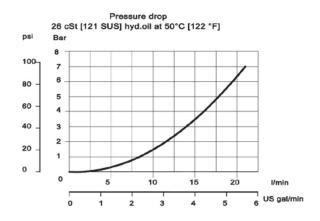
No Filter Option



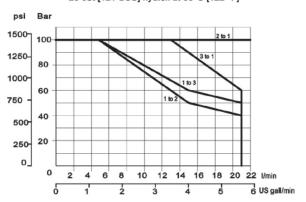


Filter Option

PERFORMANCE CURVES



Operating envelope 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]



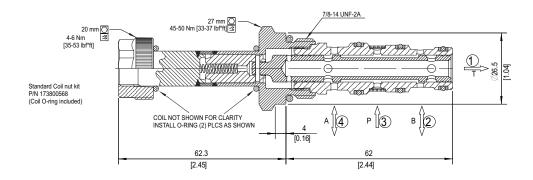


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DIMENSIONS

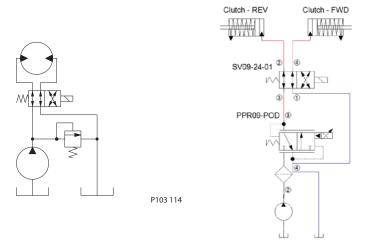
Cross-sectional view

mm [in]



EXAMPLE CIRCUITS Bi-Directional Control of Motors - Low Pressure

Dual Clutch System Using Pressure Reducing Valve and 2-Position, 4-Way Solenoid



ORDERING INFORMATION

