

Solenoid Valves Catalog 4-Way, 3-Position Spool SV10-34-11



OPERATION

Solenoid Valve, Spool Type, 3-Position, 4-Way, 10-size. When de-energized, the SV10-34-11 allows flow from port 4 to 1, blocking port 2 and 3. When coil S1 is energized, the spool shifts to allow flow from port 3 to port 4, and from port 2 to 1. When coil S2 is energized, the spool shifts to allow flow from port 3 to port 2, and from port 4 to port 1 This valve comes standard with a one-direction, push-pin manual override. When the manual override is pushed, the spool shifts following the logic of energizing S2. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation.

APPLICATIONS

These spool-type valves are primarily used in mobile and industrial applications for controlling the direction of the flow in a circuit. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage due to spool clearance, so if your application requires no leakage at the working port(s), apply a low leakage poppet valve(s), like PO check valve, counterbalance valve, etc., in addition to this solenoid valve. This valve can operate with an inlet pressure of 315 bar on port 3 for 400,000 cycles. Port 1 may be pressurized to 210 bar, but is not intended as inlet (Tank only).



Shown with Robust Coils.

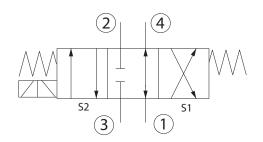
Deutsch Connectors

SPECIFICATIONS

Rated pressure*	230 bar [3300 psi]**
Rated flow at 7 bar	24 l/min
[100 psi]	6 US gal/min]
Weight	0.81 kg [1.79 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

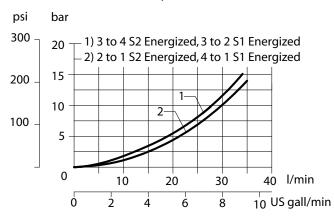
^{*} Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC

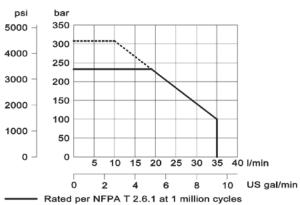


PERFORMANCE CURVES

Pressure drop 26 cSt [121 SUS] hyd.oil at 50°C [122 °F]



Operating envelope



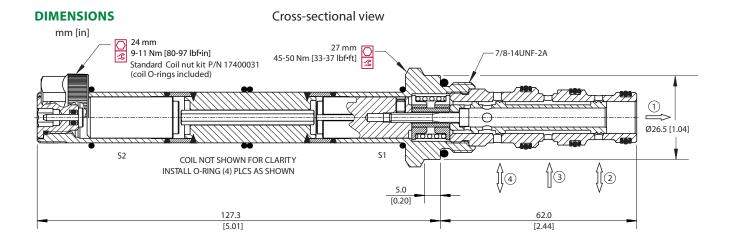
------ Rated per NFPA T 2.6.1 at 1 million cycles
------ Rated per NFPA T 2.6.1 at reduced operational life

^{**} See 315 bar pressure rating note on page 10.



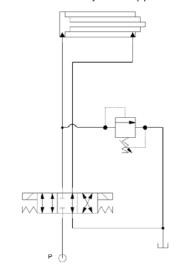
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EXAMPLE CIRCUITS

Cushion Relief in Cylinder Application



ORDERING INFORMATION

