

Solenoid Valves Technical Information

4

4-Way, 3-Position Spool SV08-34-02

OPERATION

This is an 08-size, 3-Position, 4-Way, spool type solenoid valve. When de-energized, the SV08-34-02 is closed center, blocking all flow. 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. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation. The HSV08-34-02 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.

Shown with Robust Coils, Metri-Pack Type 2 Connectors

APPLICATIONS

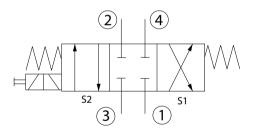
These valves are primarily used in mobile and industrial applications for controlling the direction of the flow in a circuit. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage due to spool clearance, so if your application requires 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 comes standard with a manual override (one-direction, push-pin style). This valve can operate with an inlet pressure of 315 bar on port 3 for 500,000 cycles. Port 1 is not intended for use as inlet (Tank only).

SPECIFICATIONS

Rated pressure*	230 bar [3300 psi]**
Rated flow at 7 bar	10 l/min
[100 psi]	[3 US gal/min]
Weight	0.55 kg [1.21 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N 173800539

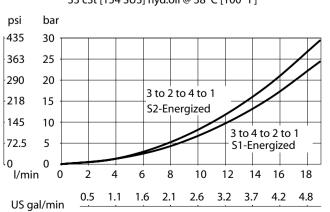
^{*} Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC

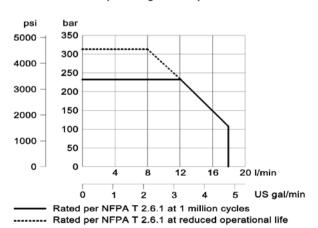


PERFORMANCE CURVES

Pressure drop 33 cSt [154 SUS] hyd.oil @ 38°C [100° F]



Operating envelope



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



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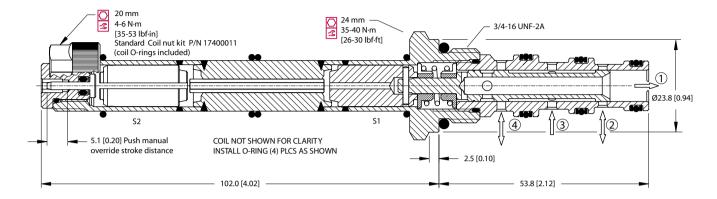
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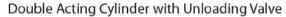
DIMENSIONS

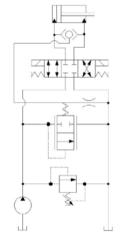
Cross-sectional view

mm [in]

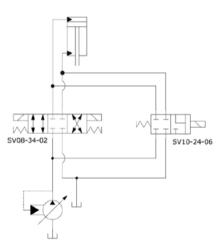


EXAMPLE CIRCUITS





Fourth Position Float



ORDERING INFORMATION

