

Solenoid Valves Catalog 4 Way, 2 Position Spool SV10-24-02



OPERATION

This is a direct-acting, 2-position, 4-way, 10-size spool-type solenoid valve. When de-engergized, the SV10-24-02 blocks flow to all ports. When energized, the spool shifts to allow flow from port 3 to 4, and from port 2 to 1. 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, like motors or cylinders. 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. Common appliations include unidirectional motor or cylinder control.

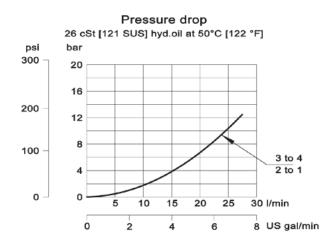
This valve can operate with an inlet pressure of 315 bar on port 3 for 400,000 cycles. Port 1 may be pressurized to 210 bar, but is not intended for use as inlet (Tank only).



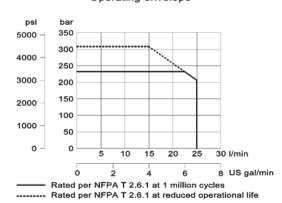
Rated Pressure*	230 bar [3330 psi]**
Maximum Rated Flow at 7 bar	20 l/min
[100 psi]	[5.3 US gal/min]
Weight including coil	0.45 kg [1lbs]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)
Diode (Optional)	Standard Coil - Unidirectional
	Robust Coil - Bidirectional

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

PERFORMANCE CURVES



Operating envelope



Shown with Standard Coil, Deutsch

Connector

Shown with Robust Coil, Deutsch Connector

(4)

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



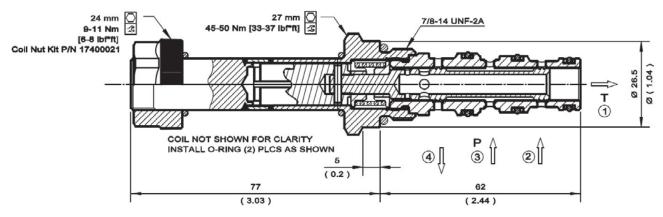
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DIMENSIONS

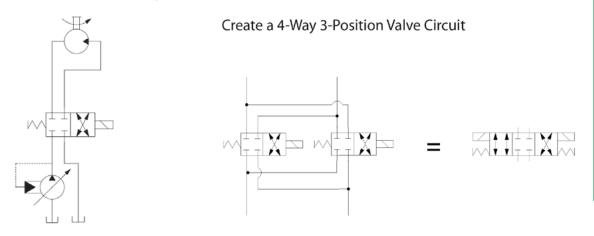
Cross-sectional view

mm [in]



EXAMPLE CIRCUITS

Uni-directional Motor, Variable Pump



ORDERING INFORMATION

