

# Solenoid Valves Catalog 4-Way, 2-Position Spool SV10-24-01



## **OPERATION**

Solenoid Valve, Spool Type, 2-Position, 4-Way, 10 size. When de-energized, the SV10-24-01 allows flow from port 3 to port 2, and from port 4 to port 1. When energized, the spool shifts to allow flow from port 3 to port 4, and from port 2 to port 1. Follow the "Operating Envelope" limits to ensure shifting of the valve during operation.



Shown with Robust Coil

#### **APPLICATIONS**

These spool-type valves are primarily used in mobile and industrial applications for controlling the direction of the flow in a circuit, like

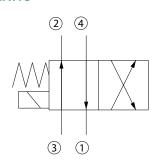
motors or cylinders. Can be used in combination to duplicate a four-way, three-position valve, creating an economical, compact function. Solenoid spool-type valves are direct acting and respond quickly to coil voltage input. Spool valves will have some leakage due to spool clearance, so if your application 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. Port 1 may be pressurized to 210 bar, but is not intended as inlet (Tank only).

## **SPECIFICATIONS**

Rated pressure*	230 bar [3300 psi]**
Rated flow at 7 bar	15 l/min
[100 psi]	[4 US gal/min]
Weight	0.45 kg [0.99 lb]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N <b>173804910</b>
	(no coil O-rings needed)

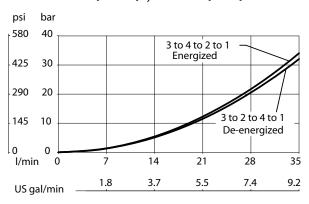
<sup>\*</sup> Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

#### **SCHEMATIC**

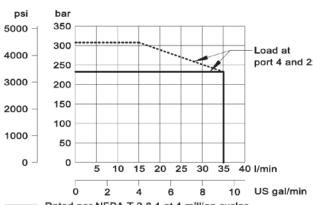


## **PERFORMANCE CURVES**

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



## Operating envelope



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

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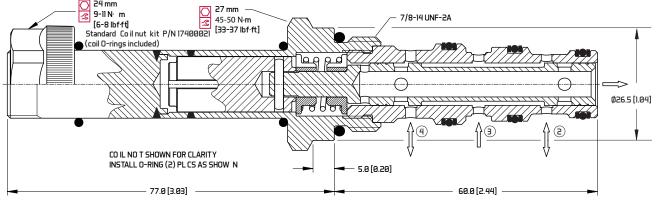
<sup>\*\*</sup> See 315 bar pressure rating note on page 10.



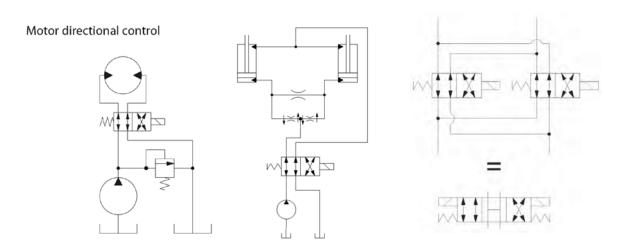
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# DIMENSIONS Cross-sectional view mm [in] 24 mm 9-11N· m [6-8 lbfft] Standard Coil nut kit P/N 17400021 [33-37 lbf·ft]



### **EXAMPLE CIRCUITS**



## **ORDERING INFORMATION**

