

Solenoid Valves Catalog 4 Way, 3 Position Spool SV10-34-14





This is a direct acting, 3-position, 4-way spool type solenoid valve. When de-energized, the SV10-34-14 allows flow from port 3 to 2 and from port 4 to 1. When coil S1 is energized, the spool shifts to the float position, allowing flow from port 2 and 4 to port 1, while blocking flow to port

- 3. When coil S2 is energized, the spool shifts to allow flow from port 2 to 1, and from port 4 to
- 3. The SV10-34-14 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. The SV10 uses a 10 size cavity and an optional 500 micron filter is available.



Shown with Standard Coils, Deutsch Connectors

Shown with Robust Coils, Deutsch Connectors

APPLICATIONS

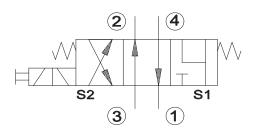
These valves are typically used for directional control for motor or cylinder functions, to run forward, reverse, or float free. Applications for this schematic include street sweepers (broom height control) and windrower header height. Use a pressure reducing valve before the "P" port to manage the force. This valve can also be applied to a reversing fan drive with a pressure regulated variable pump. The schematic allows the fan to shift smoothly from forward to reverse. Additionally, if the fan drive loses power, the spool shifts to the center position and the fan turns in the forward direction. This valve can operate with an inlet pressure of 315 bar on port 3 for 300,000 cycles. Port 1 may be pressurized to 150 bar, but is not intended for use as inlet (Tank only).

SPECIFICATIONS

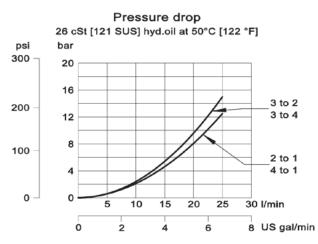
Rated Pressure*	230 bar [3330 psi]
Maximum Rated Flow at 7 bar	17 l/min
[100 psi]	[4.5 US gal/min]
Weight including coil	0.81 kg [1.79 lbs]
Cavity	SDC10-4
Standard Coil	M16 26 Watt
Robust Coil	R16 20 Watt
	Robust Nut P/N 173804910
	(no coil O-rings needed)

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

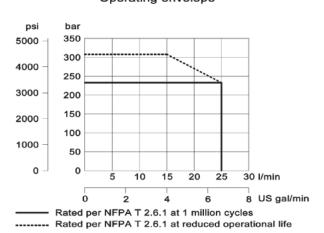
SCHEMATIC



PERFORMANCE CURVES



Operating envelope



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

62

(2.44)



Solenoid Valves Catalog 4 Way, 3 Position Spool SV10-34-14



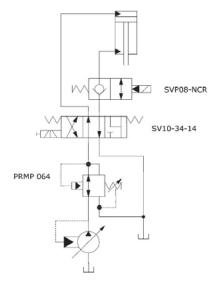
DIMENSIONS Cross-sectional view mm [in] 24 mm 9-11 Nm 45-50 Nm [33-37 lbf*ft] Coll Nut Kit P/N 173800678 Coll Nut Kit P/N 173800678 S2 COIL NOT SHOWN FOR CLARITY INSTALL O-RING (4) PLCS AS SHOWN 5 (0.20)

127.5

(5.01)

EXAMPLE CIRCUITS

Height Control with Float Option



ORDERING INFORMATION

