

Solenoid Valves Technical Information

4-Way, 2-Position Spool CP531-21



OPERATION

This is a solenoid valve, spool-type, 4-way, 2-position, 12-size. When de-engergized, the CP531-21 allows flow from port 3 to port 4, and from port 2 to port 1. When energized, flow s allowed 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.

APPLICATIONS

These 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.

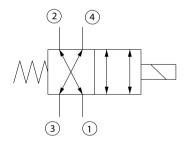


SPECIFICATIONS

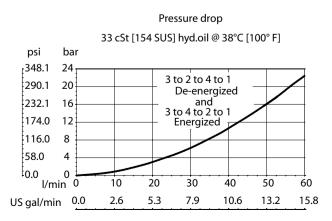
Rated pressure*	240 bar [3500 psi]*
Rated flow at 7 bar	32 l/min
[100 psi]	[8 US gal/min]
Weight	0.82 kg [1.81 lb]
Cavity	SDC12-4
Robust Coil	D14E 30 Watt
(Standard)	Robust Nut P/N 321567

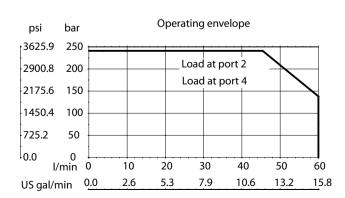
^{*} Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC



PERFORMANCE CURVES







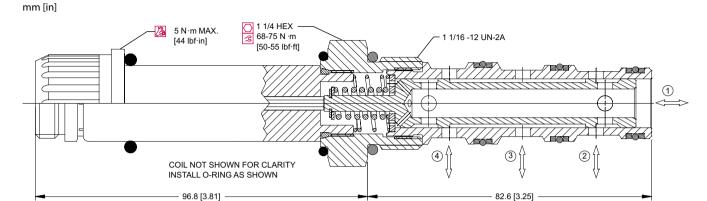
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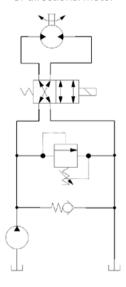
DIMENSIONS

Cross-sectional view



EXAMPLE CIRCUITS

Bi-directional Motor



ORDERING INFORMATION

