### Solenoid Valves Catalog 4-Way, 2-Position Spool RESPONSIVENESS IN MOTION Member of the Danfoss Group

SV08-24-08

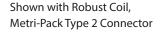
# **OPERATION**

Solenoid Valve, Spool Type, 2-Position, 4-Way, 08-size. When de-energized, the SV08-24-08 allows flow from ports 2 and 4 to port 1, while port 3 is blocked. When energized, the spool shifts to allow flow from port 3 to 4, and from 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 connecting both sides of a motor (free-wheeling) or cylinder to tank when not energized. Then, when energized, the valve provides unidirectional flow to the motor or cylinder. Solenoid spool-type valves are direct acting and respond guickly 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 can operate with an inlet pressure of 315 bar on port 3 for 500,000 cycles. Port 1 may be pressurized to 210 bar, but is not intended for use as inlet (Tank only).



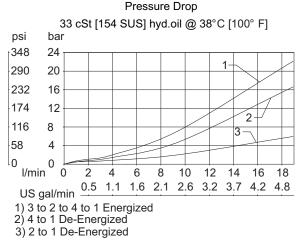
**SPECIFICATIONS** 

Rated pressure*	230 bar [3300 psi]**
Rated flow at 7 bar	24 l/min
[100 psi]	[6 US gal/min]
Weight	0.45 kg [0.99 lb]
Cavity	SDC08-4
Standard Coil	M13 20 Watt
Robust Coil	R13 16 Watt
	Robust Nut P/N <b>173800539</b>
	(no coil O-rings needed)

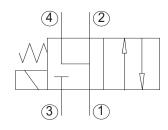
\* Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

\*\* See 315 bar pressure rating note on page 10.

### **PERFORMANCE CURVES**



# **SCHEMATIC**



#### Operating envelope

