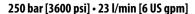
Proportional Valves

ESVL9-10-E

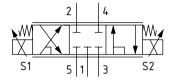
Proportional Directional Valve, 5-way, 3-position, Spool Type, Non-Compensated

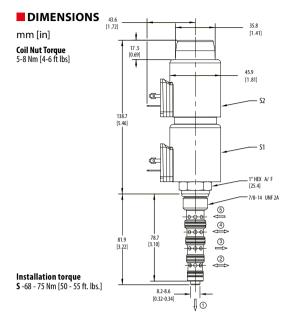


■ DESCRIPTION AND OPERATION

This is a 5-way, 3-position, spool type, non-compensated proportional directional valve. In its de- energized condition, all ports are blocked. Increasing the current to the bottom coil will cause the spool to move, proportionally opening flow from port 5 to 4 with return flow from port 2 to 3. Increasing the current to the top coil will proportionally open flow from port 5 to 2 with return flow from port 4 to 3. In both cases, port 5 will also be opened to port 1, which acts as the load sense port. Using this as a variable orifice in conjunction with a compensator, the valve will provide compensated flow to an actuator in both directions. For optimal performance, install with the solenoid valve below the tank oil level in the horizontal or inverted position, reducing the chance for trapped air in the valve.

SCHEMATIC



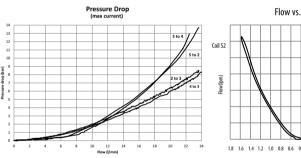


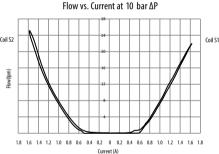
■ PERFORMANCE DATA

250 bar [3600 psi] Rated pressure* Rated flow @ 10 bar [145 psi] 23 I/min [6 US gpm] 250 ml/min (10 in³/min) Leakage max. @ 210 bar [3000 psi] Maximum Hysteresis 5% Recommended PWM frequency 100 Hz 1.6 A [12 VDC coil] Maximum control current 0.8 A [24 VDC coil] **Coil Options** L series Weight with coils 1.2 kg [2.65 lb] Cavity SDC10-5

*Rated pressure based on NFPA fatigue test standards (at 1 million cycles)

■ PERFORMANCE CURVES





Danfoss

MODEL CODE

