Proportional Valves

EPRV2-8

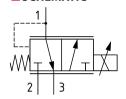
Proportional Pressure Reducing, Relieving, Direct Acting, Normally Open to Drain

35 bar [500 psi] • 7.6 l/min [2 US qpm]

■ DESCRIPTION AND OPERATION

This is a direct acting, proportional pressure reducing / relieving valve. In the de-energized condition, the inlet port 2 is blocked, while the reduced pressure in port 1 will be at the minimum setting and open to the tank port 3. By energizing the coil, the pressure in port 1 will increase proportionally to the current applied. Flow through port 2 to 1 is restricted to limit the pressure in port 1. In the case of over pressurization in port 1, the spool will open port 1 to port 3, which acts as a relief valve to limit the pressure in port 1.

■SCHEMATIC



Coil nut torque 5-8 Nm [4-6 ft lbs] 51,3 (2.02)22,2 (0.875) hex 40,6

(1.60)

Installation torque A - 34-41 Nm [25-30 ft lbs]

DIMENSIONS

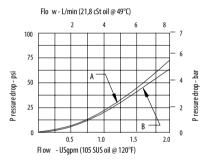
mm [in]

■ PERFORMANCE DATA

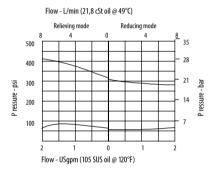
Rated pressure*	35 bar [500 psi]
Rated flow	7.6 l/min [2 US gpm]
Reduced pressure range	0-22 bar [0-320 psi]
Maximum Hysteresis	5%
Recommended PWM frequency	150 Hz
Maximum control current	0.85 A [12 VDC coil]
	0.425 A [24 VDC coil]
Coil Options	S series
Weight	0.29 kg [0.64 lb]
Cavity	SDC08-3

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

■ PERFORMANCE CURVES





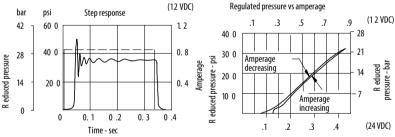


15.8 (0.62) hex

0.750"- 16 Thd. Ø 1 4,2 (0.559)

Ø 1 5,8 (0.622)

Danfoss



MODEL CODE

