

Proportional Valves

PAR1-10

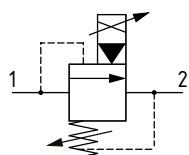
Proportional Relief Valve, Spool Type, Pilot Operated, Normally Open

240 bar [3500 psi] • 57 l/min [15 US gpm]

DESCRIPTION AND OPERATION

This is a pilot operated, spool type, normally open, proportional relief valve. In the de-energized condition, the pressure setting will be at a minimum. As current is applied to the coil, the pressure setting of the valve will increase proportionally. This valve is ideal for system pressure control where flows may vary.

SCHEMATIC



PERFORMANCE DATA

Rated pressure*	240 bar [3500 psi]
Rated flow	57 l/min [15 US gpm]
Leakage	120 ml/min [7.3 in ³ /min] @ 80% of Pressure Setting
Pressure Range	7-210 bar [100-3000 psi]
Maximum Hysteresis	10%
Recommended PWM frequency	100 Hz
Threshold current	0 A
Maximum control current	1.0 A [12 VDC coil] 0.5 A [24 VDC coil]
Coil Options	J series
Weight	0.44 kg [0.98 lb]
Cavity	SDC10-2

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

MODEL CODE

PAR1 - 10 - V - 10 - 0 - 12D - G - J

Seal Option

Code	Seal kit
Omit - Buna - N	565803
V - Viton	566086

Max Pressure Setting

Code x 100 - Pressure setting in psi [100 psi increments within specified Pressure Range]
Pressure Range: 7-210 bar [100-3000 psi]
 Example:

Code	Bar	Psi
10	69	[1000 psi]

Housing

Code	Ports	Aluminium
0	No housing	
6T	#6 SAE	566151
2G	1/4" BSP	876702
3G	3/8" BSP	876703
6H	#6 SAE	876700
8H	#8 SAE	876701

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].

* Additional housings available

DIMENSIONS

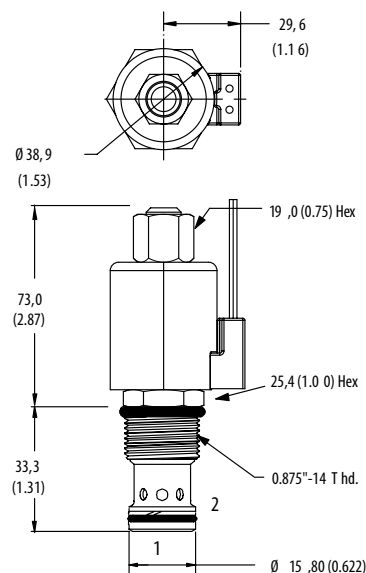
mm [in]

Coil Nut Torque

5-8 Nm [4-6 ft lbs]

Installation torque

A - 47-54 Nm [35-40 ft lbs]



PERFORMANCE CURVES

