

## Proportional Valves

### PAR1-16

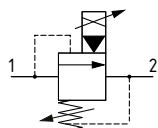
Proportional Relief Valve, Spool Type, Pilot Operated, Normally Open

210 bar [3000 psi] • 132 l/min [35 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*	<b>210 bar [3000 psi]</b>
Rated flow	<b>132 l/min [35 US gpm]</b>
Leakage	130 ml/min [8 in <sup>3</sup> /min] @ 80% of pressure setting
Pressure Range	7-210 bar [100-3000 psi]
Maximum Hysteresis	10%
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	SDC16-2

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

#### MODEL CODE

**PAR1 - 16 - V - 10 - 0 - 12D - G - J**

##### Seal Option

Code	Seal kit
Omit - Buna - N	565810
V - Viton	889609

##### 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	Aluminum
0	No housing	
12T	#12 SAE	566149
4G	1/2" BSP	876716
6G	3/4" BSP	876718
10H	#10 SAE	876717
12H	#12 SAE	566113

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

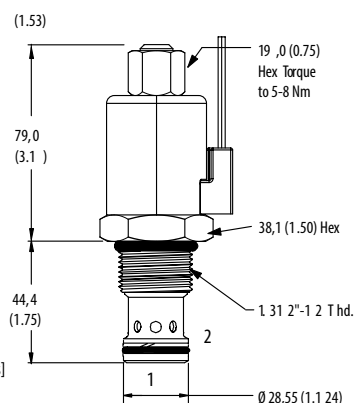
\* Additional housings available

#### DIMENSIONS

mm [in]

**Coil Nut Torque**  
5-8 Nm [4-6 ft lbs]

**Installation torque**  
A - 108-122 Nm [80-90 ft lbs]



#### PERFORMANCE CURVES

