Proportional Valves
PRV12-POC

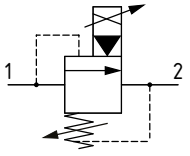
Proportional Relief Valve, Spool Type, Pilot Operated, Normally Closed

250 bar [3600 psi] • 180 l/min [47 US gpm]

DESCRIPTION AND OPERATION

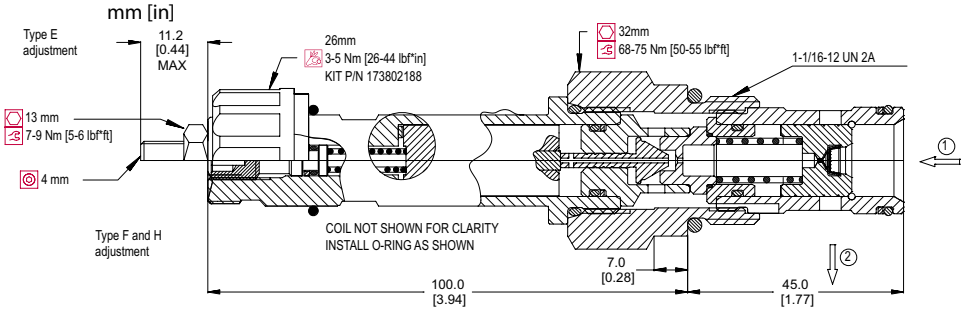
This is a pilot operated, spool type, normally closed, proportional relief valve. In the de-energized condition, the pressure setting will be at a maximum. As current is applied to the coil, the pressure setting of the valve will decrease proportionally. This valve is ideal for use in cooling circuits to regulate the speed of the fan.

SCHEMATIC



DIMENSIONS

mm [in]

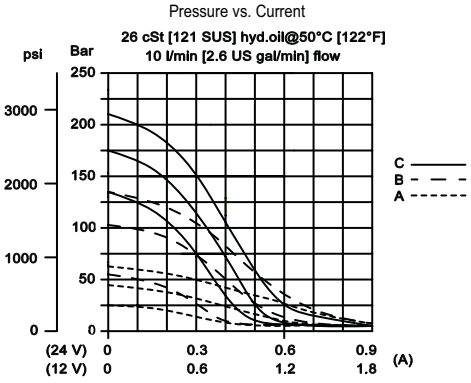


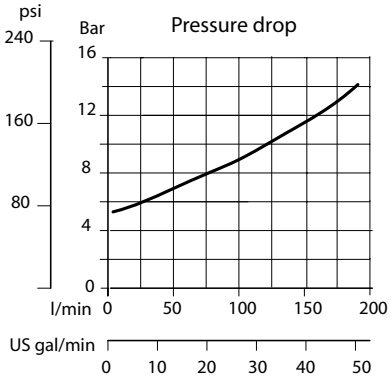
PERFORMANCE DATA

Rated pressure*	**250 bar [3600 psi]**
Rated flow	**180 l/min [47 US gpm]**
Recommended PWM frequency	200 Hz
Maximum Hysteresis	10%
Threshold current	0 A [12 VDC coil] 0 A [24 VDC coil]
Maximum control current	1.8 A [12 VDC coil] 0.9 A [24 VDC coil]
Coil Options	M19P
Weight	0.62 kg [1.37 lb]
Cavity	SDC12-2

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

PERFORMANCE CURVES





MODEL CODE

PRV12 - POC - 215 - C - 12D - DE - E - B - 00

Max Pressure Setting

Code - Pressure setting in bar (5 bar increments within specified Pressure Range)
Example:

Code	Bar	Psi
60	60	[870]

Pressure Range

Code	Pressure Range
A Standard Setting	25-65 bar [360-940 psi] 55 bar [800 psi]
B Standard Setting	55-135 bar [800-1960 psi] 135 bar [1960 psi]
C Standard Setting	135-215 bar [1960-3100 psi] 215 bar [3100 psi]

Coil Voltage

00 - No coil, nut included*
12D - 12 VDC
24D - 24 VDC
*Standard Coil - Plastic coil nut and o-rings (p/n 173802188

Connector Type

00 - No coil
AJ - AMP Junior
DE - Deutsch
DN - DIN 43650

Housing

Code	Ports & Material	Housing Model Code
00	No housing	
10S	AL, #10 SAE	CP12-2-10S
12S	AL, #12 SAE	CP12-2-12S
DG4B	AL, 1/2 BSP	SDC12-2-DG4B
DG6B	AL, 3/4 BSP	SDC12-2-DG6B

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

Seal Option

Code	Seal kit
B - Buna - N	354001319
V - Viton	354001819

Adjustment Option

E - External
F - Tamper resistant
H - Hidden