

# Proportional Valves

## PFC12-RO

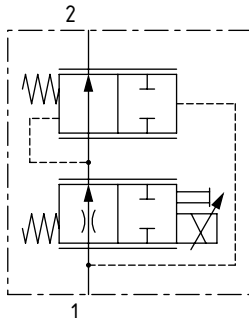
Proportional Flow Control Valve, Normally Open, Restrictive Type, Pressure Compensated

260 bar [3800 psi] • 60 l/min [16 US gpm]

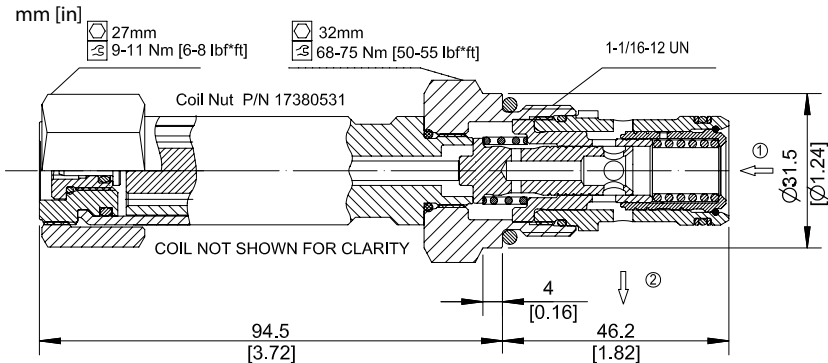
### DESCRIPTION AND OPERATION

This is a 2-way, spool type, normally open, restrictive type, pressure compensated proportional flow control valve. In the de-energized condition, maximum flow passes from port 1 to 2. Energizing the coil will proportionally move the spool, restricting flow out of port 2 through a variable orifice. An internal compensating spool ensures that the output flow at port 2 remains constant, regardless of changes in differential pressure. Increasing the current to the coil will increase the outlet flow.

### SCHEMATIC



### DIMENSIONS

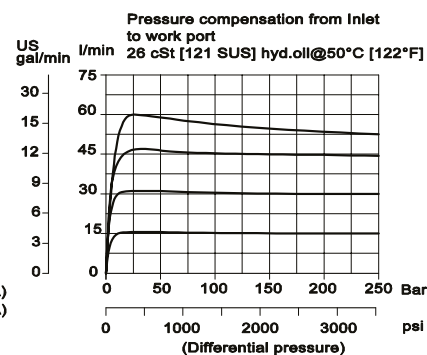
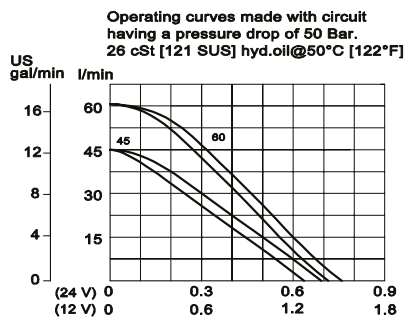


### PERFORMANCE DATA

Rated pressure*	260 bar [3800 psi]
Max Regulated Flow	60 l/min [16 US gpm]
Leakage	420 ml/min [25.6 in <sup>3</sup> /min] @Rated pressure
Maximum Hysteresis	8%
Threshold current	0.42 A [12 VDC coil] 0.21 A [24 VDC coil]
Maximum control current	1.8 A [12 VDC coil] 0.9 A [24 VDC coil]
Coil Options	D14E [35 Watt]
Weight	0.77 kg [1.70 lb]
Cavity	SDC12-2

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

### PERFORMANCE CURVES



### MODEL CODE

**PFC12 - RO - 60 - 12D - DE - SPS - B - 00**

#### Max Regulated Flow

Code	Flow
45	45 l/min [12 US gpm]
60	60 l/min [16 US gpm]

#### Coil Voltage

00 - No coil, nut included\*  
12D - 12 VDC  
24D - 24 VDC

\*Aluminum coil nut (p/n 17380531)

#### Connector Type

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

#### Manual Override Option

Omit - Push Pin  
SPS - Screw Type

#### 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	354008319
V - Viton	354008419