Proportional Valves

PFC16-PO

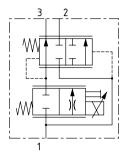
Danfoss

Proportional Flow Control Valve, Normally Open, Priority Type, Pressure Compensated 260 bar [3800 psi] • 90 l/min [24 US qpm]

■ DESCRIPTION AND OPERATION

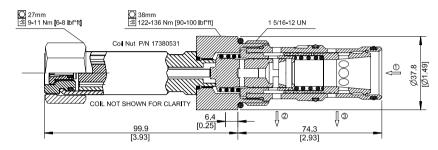
This is a 3-way, spool type, normally closed, priority type, pressure compensated proportional flow control valve. In the de-energized condition, flow is blocked from port 1 to the priority port 3 and all flow passes from port 1 to 2. Energizing the coil will proportionally move the spool, opening a variable orifice from port 1 to 3, while excess flow passes to port 2. An internal compensating spool ensures that the output flow at port 3 remains constant, regardless of changes in differential pressure between port 1 and 3 or pressure at the bypass port 2. Increasing the current to the coil will increase the priority outlet flow.

■SCHEMATIC



DIMENSIONS

mm [in]

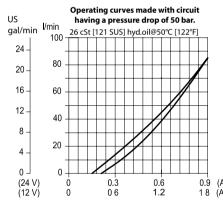


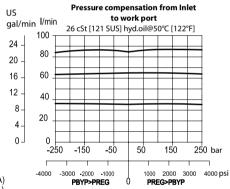
■ PERFORMANCE DATA

■ PERFORMANCE CURVES

Rated pressure*	260 bar [3800 psi]
Max regulated flow	90 l/min [24 US gpm]
Leakage	420 ml/min [25.6 in ³ /min]
	@rated pressure
Maximum Hysteresis	8%
Threshold current	0.4 A [12 VDC coil]
	0.2 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	0.97 kg [2.14 lb]
Cavity	SDC16-3
*Pated proceure based on NEDA fatigue to	act standards (at 1 million systes)







MODEL CODE

PFC16 - PO - 90 - 12D - DE - SPS - B - 6B Max Regulated flow Code Flow Housing Model Code Ports & Code 90 I/min [24 US gpm] Material 90 No housing AL, 3/4 BSP SDC16-3-HE6B **Coil Voltage** 00 - No coil, nut included 8B AL, 1 BSP SDC16-3-HE8B 12D - 12 VDC 125 AL, #12 SAE CP16-3-12S 24D - 24 VDC *Aluminum coil nut (p/n 17380531) **16**S AL, #16 SAE CP16-3-16S * Aluminum bodies are to be used for pressures less than 210 bar [3000 psi]. **Connector Type** * Additional housings available **00** - No coil - AMP Junior **Seal Option** DE - Deutsch Code Seal kit **DN** - DIN 43650 B - Buna - N 354008919 **Manual Override Option** Omit - Push Pin V - Viton 354009019 SPS - Screw Type