Proportional Valves

PFC10-PC

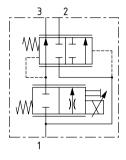
Danfoss

Proportional Flow Control Valve, Normally Closed, Priority Type, Pressure Compensated 260 bar [3800 psi] • 40 l/min [10.6 US qpm]

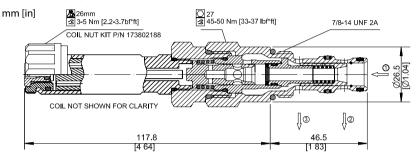
■ DESCRIPTION AND OPERATION

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

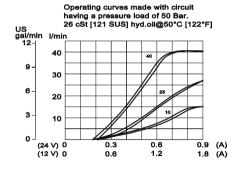


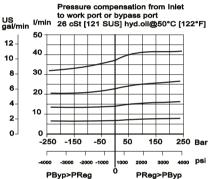
PERFORMANCE DATA

■ PERFORMANCE CURVES

Rated pressure*	260 bar [3800 psi]
Max Regulated Flow	40 l/min [10.6 US gpm]
Leakage	420 ml/min [25.6 in ³ /min]
	@rated pressure
Maximum Hysteresis	8%
Threshold current	0.36 A [12 VDC coil]
	0.18 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	SDC10-3







■ MODEL CODE

PFC10 - PC - 40 - 12D - DE - SPS - B - 00 **Max Regulated Flow** Housing Code Ports & Housing Code Model Code Material 10 10 I/min [2.6 US gpm] 00 No housing 25 25 I/min [6.6 US gpm] 40 I/min [10.6 US gpm] 65 AL, #6 SAE CP10-3-6S 40 85 AL, #8 SAE CP10-3-8S Coil Voltage AL, 3/8 BSP SE3B SDC10-3-SE3B 00 - No coil, nut included* SE4B AL, 1/2 BSP SDC10-3-SE4B 12D - 12 VDC 24D - 24 VDC * Aluminum bodies are to be used for pressures less than 210 bar [3000 psi]. *Standard Coil - Plastic coil nut and o-rings (p/n 173802188) * Additional housings available **Connector Type** 00 - No coil AJ - AMP Junior Seal Option Seal kit - Deutsch Code **DN** - DIN 43650 **B** - Buna - N 35400421 **Manual Override Option** V - Viton 35400371 Omit - Push Pin SPS - Screw Type