Proportional Valves

PFC10-RC

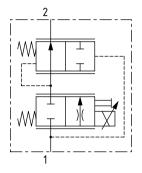
Danfoss

Proportional Flow Control Valve, Normally Closed, Restrictive Type, Pressure Compensated 260 bar [3800 psi] • 30 I/min [8 US qpm]

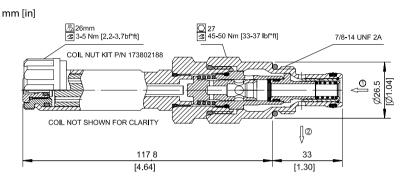
■ DESCRIPTION AND OPERATION

This is a 2-way, spool type, normally closed, restrictive type, pressure compensated proportional flow control valve. In the de-energized condition, flow is blocked in both directions. Energizing the coil will proportionally move the spool, opening a variable orifice from port 1 to 2. 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

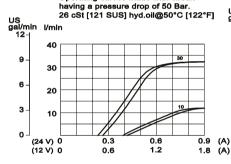


PERFORMANCE DATA

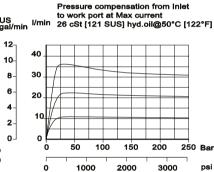
Rated pressure*	260 bar [3800 psi]
Max regulated flow	30 l/min [8 US gpm]
Leakage	420 ml/min [25.6 in ³ /min]
	@rated pressure
Maximum Hysteresis	8%
Threshold current	0.5 A [12 VDC coil]
	0.25 A [24 VDC coil]
Maximum control current	1.8 A [12 VDC coil]
	0.9 A [24 VDC coil]
Coil Options	M19P
Weight	0.65 kg [1.43 lb]
Cavity	SDC10-2

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

PERFORMANCE CURVES



Operating curves made with circuit



MODEL CODE

PFC10 - RC - 30 - 12D - DE - SPS - B - 6S **Max Regulated Flow** Housing Code Ports & Code Model Code Material 10 10 I/min [2.6 US gpm] 00 No housing 30 l/min [8 US gpm] 30 65 AL, #6 SAE CP10-2-6S Coil Voltage 85 AL, #8 SAE CP16-2-8S 00 - No coil, nut included* AL, 3/8 BSP DG3B SDC10-2-DG3B 12D - 12 VDC 24D - 24 VDC AL, 1/2 BSP SDC10-2-DG4B *Standard Coil - Plastic coil nut and o-rings (p/n 173802188) * Aluminum bodies are to be used for pressures less than 210 bar [3000 psi]. * Additional housings available **Connector Type** 00 - No coil AJ - AMP Junior Seal Option DE - Deutsch DN - DIN 43650 Seal kit Code **B** - Buna - N 35400401 **Manual Override Option** V - Viton 35400341 Omit - Push Pin SPS - Screw Type