# **Proportional Valves**

## PFC10-RO

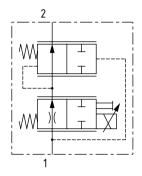
Danfoss

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

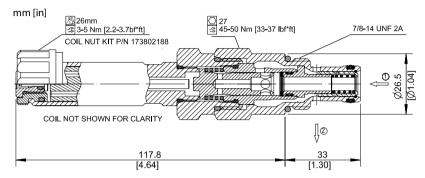
### **■ DESCRIPTION AND OPERATION**

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**



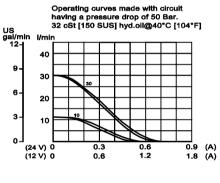
#### DIMENSIONS

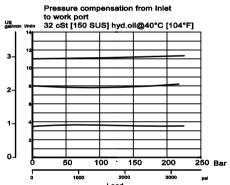


#### **■ PERFORMANCE DATA**

#### Rated pressure\* 260 bar [3800 psi] **Max Regulated Flow** 30 I/min [8 US gpm] 420 ml/min [25.6 in<sup>3</sup>/min] Leakage @rated pressure **Maximum Hysteresis** 0.2 A [12 VDC coil] Threshold current 0.1 A [24 VDC coil] 1.8 A [12 VDC coil] Maximum control current 0.9 A [24 VDC coil] **Coil Options** M19P Weight 0.65 kg [1.43 lb] SDC10-2 Cavity

#### **PERFORMANCE CURVES**





#### **MODEL CODE**

#### PFC10 - RO - 30 - 12D - DE - SPS - B - 00 **Max Regulated Flow** Housing Code Housing Model Code Ports & Code Material 10 10 I/min [2.6 US gpm] 00 No housing 30 30 I/min [8 US gpm] 65 AL, #6 SAE CP10-2-6S Coil Voltage 85 AL, #8 SAE CP10-2-8S 00 - No coil, nut included\* DG3B AL, 3/8 BSP SDC10-2-DG3B 24D - 24 VDC DG4B 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]. **Connector Type** \* Additional housings available **00** - No coil - AMP lunior **Seal Option** - Deutsch **DN** - DIN 43650 Seal kit Code **B** - Buna - N 354004019 **Manual Override Option** V - Viton 354003419 Omit - Push Pin SPS - Screw Type

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