



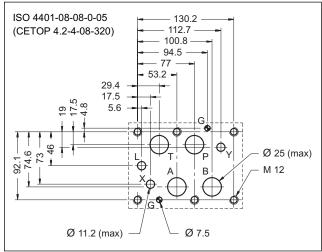
PCM8

TWO- AND THREE-WAY PRESSURE COMPENSATOR WITH FIXED ADJUSTMENT **SERIES 10**

MODULAR VERSION ISO 4401-08 (CETOP 08)

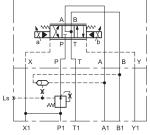
p max **320** bar Q max 300 l/min

MOUNTING INTERFACE

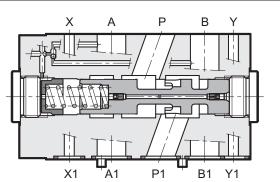


APPLICATION EXAMPLES

Two-way compensator with fixed adjustment and internal piloting, combined with a proportional valve type E5E-S9*/E



OPERATING PRINCIPLE



- The PCM8 valve is a two or three-way pressure compensator, developed as a modular version with mounting surface according to ISO 4401 (CETOP RP 121H).
- Its function is to keep the pressure drop setting (characteristic Δp) between the line P and alternatively the lines A and B at a constant level.
- It is normally used together with proportional directional valves, in order to control the flow rate independently of the pressure variations.
- The selection of the piloting pressure on the lines A and B is carried out automatically via a shuttle check valve built into the compensator.
 - They are available with fixed adjustment (characteristic Δp) of 4 and 8 bar.
 - The load sensing port can also be used as pressure gauge port or as remote pressure control.

PERFORMANCES (with mineral oil of viscosity of 36 cSt a 50°C)

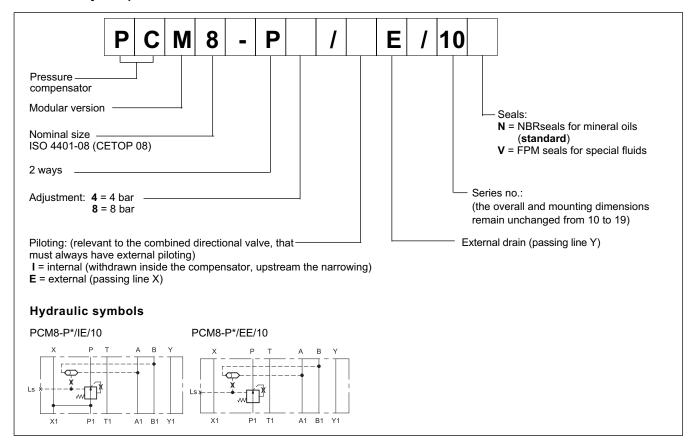
Max operating pressure	bar	320
Characteristic ∆p:	bar	4 - 8
Max flow rate	l/min	300
Ambient temperature range	°C	-20 / +50
Fluid temperature range	°C	-20 / +80
Fluid viscosity range	cSt	10 ÷ 400
Fluid contamination degree	According to ISO 4406:1999 class 20/18/15	
Recommended viscosity	cSt	25
Mass	kg	13,5

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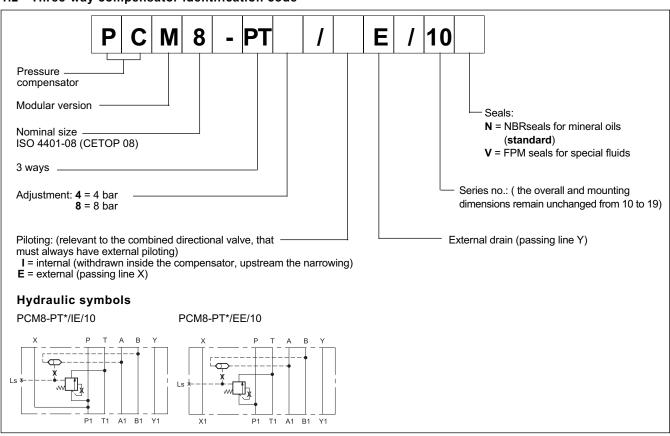
PCM8 SERIES 10

1 - IDENTIFICATION CODE

1.1 - Two-way compensator identification code



1.2 - Three-way compensator identification code

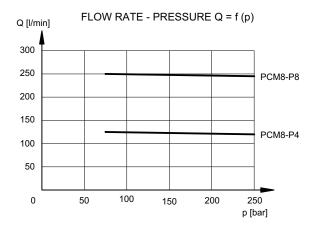


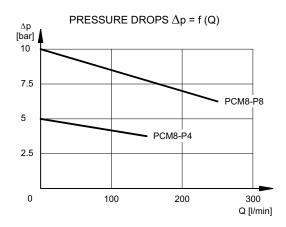
63 520/110 ED **2/4**



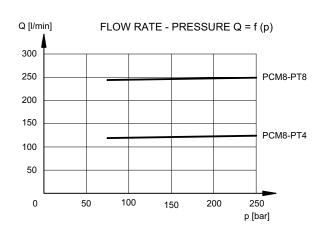
2 - CHARACTERISTIC CURVES (values obtained with viscosity of 36 cSt at 50°C)

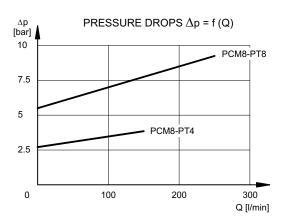
2.1 - Two-way compensator characteristic curves





2.2 - Three-way compensator characteristic curves

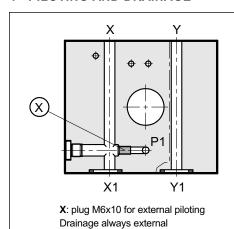




3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals. For fluids HFDR type (phosphate esters) use FPM seals (code V). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

4 - PILOTING AND DRAINAGE



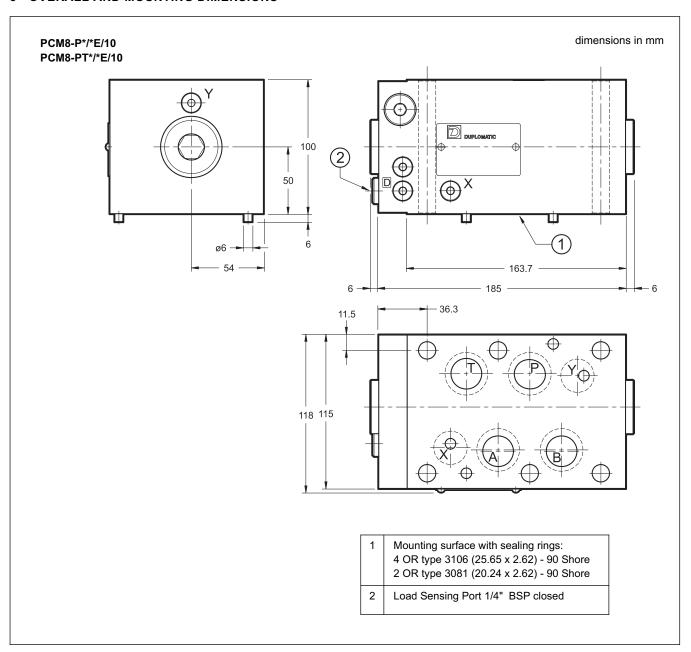
The PCM8 compensators are available with the X piloting line both internal and external. The internal piloting line is withdrawn from the P1 line, upstream the narrowing of the compensator, while the external piloting line comes form a separate piloting circuit. Drainage is always external (passing line Y).

The combined directional valve must always have an external piloting configuration. Drainage can be both internal and external.

	VALVE TYPE	X plug
PCM8-P*/IE	INTERNAL PILOTING AND EXTERNAL DRAINAGE	NO
PCM8-P*/EE	INTERNAL PILOTING AND EXTERNAL DRAINAGE	YES

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5 - OVERALL AND MOUNTING DIMENSIONS





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