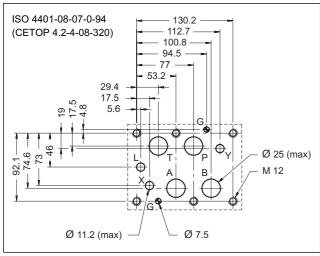
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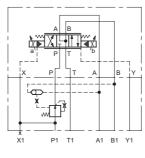


MOUNTING INTERFACE



APPLICATION EXAMPLES

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



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

bar	320
bar	4 - 8
l/min	300
°C	-20 / +50
°C	-20 / +80
cSt	10 ÷ 400
According to ISO 4406:1999 class 20/18/15	
cSt	25
kg	13,5
	bar I/min °C °C cSt According to IS class 20 cSt

PCM8 TWO- AND THREE-WAY PRESSURE COMPENSATOR

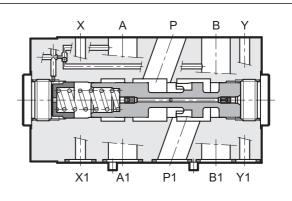
WITH FIXED ADJUSTMENT

SERIES 10

MODULAR VERSION ISO 4401-08 (CETOP 08)

p max 320 barQ max 300 l/min

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 ∆p) of 4 and 8 bar.

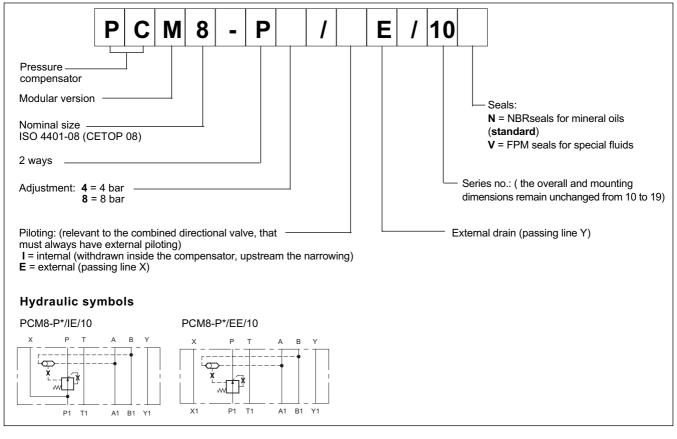
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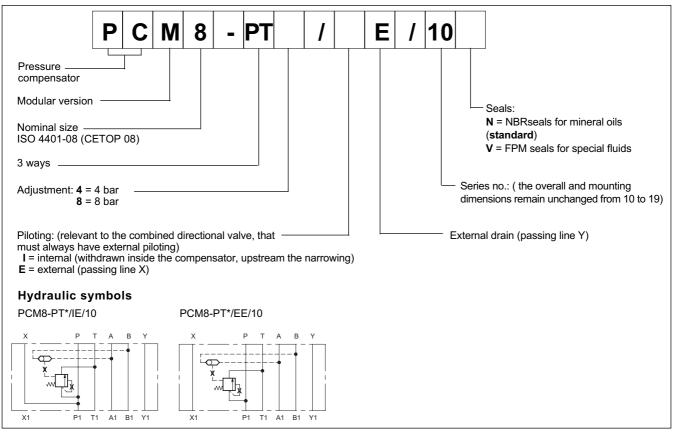


1 - IDENTIFICATION CODE

1.1 - Two-way compensator identification code



1.2 - Three-way compensator identification code

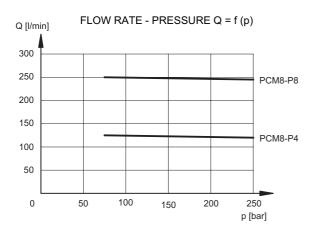




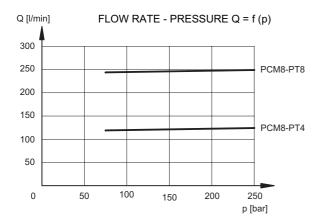


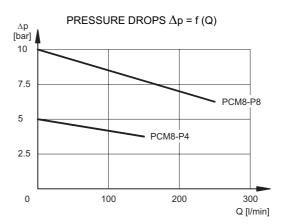
2 - CHARACTERISTIC CURVES (values obtained with viscosity of 36 cSt at 50°C)

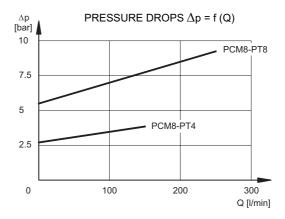
2.1 - Two-way compensator characteristic curves



2.2 - Three-way compensator characteristic curves



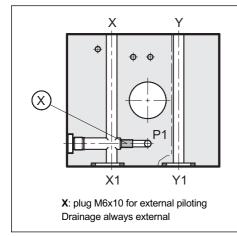




3 - HYDRAULIC FLUIDS

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).

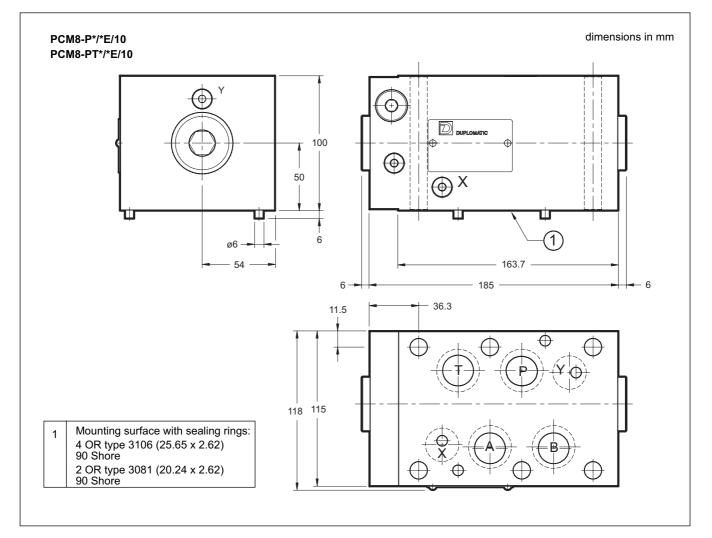
The combined directional valve must always have an external piloting configuration. Drainage can be both internal and external.

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





5 - OVERALL AND MOUNTING DIMENSIONS





DUPLOMATIC OLEODINAMICA SpA

20025 LEGNANO (MI) - P.le Bozzi, 1 / Via Edison Tel. 0331/472111 - Fax 0331/548328