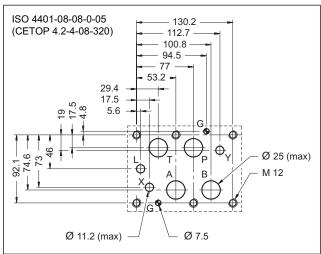


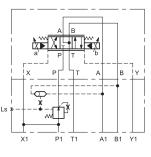


#### MOUNTING INTERFACE



#### **APPLICATION EXAMPLES**

Two-way compensator with fixed adjustment and internal piloting, combined with a proportional valve type DSPE8-A\*



#### 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 / +60
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

# PCM8

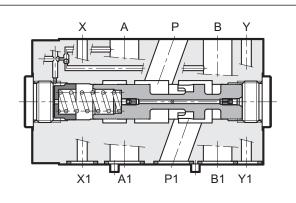
### TWO- AND THREE-WAY PRESSURE COMPENSATOR WITH FIXED ADJUSTMENT

**SERIES 10** 

## MODULAR VERSION ISO 4401-08

p max 320 bar
Q 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 4401-08.
- 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.

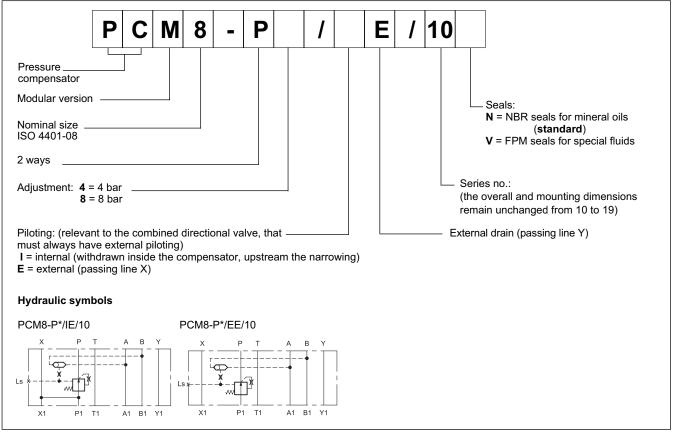
— The load sensing port can also be used as pressure gauge port or as remote pressure control.

63 520/117 ED

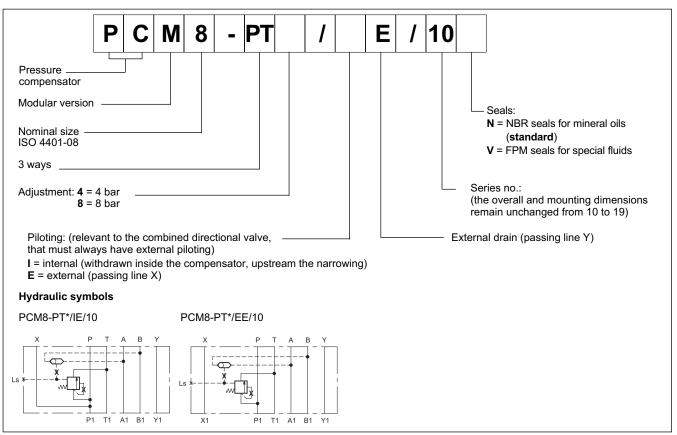


#### **1 - IDENTIFICATION CODE**

#### 1.1 - Two-way compensator



#### 1.2 - Three-way compensator

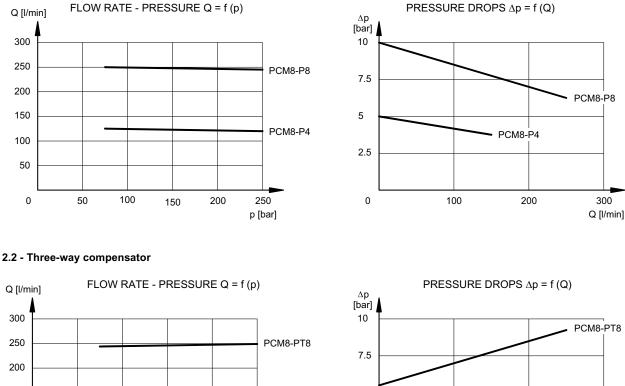




#### 2 - CHARACTERISTIC CURVES

(values obtained with viscosity of 36 cSt at 50°C)

#### 2.1 - Two-way compensator

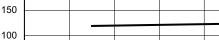


PCM8-PT4

250

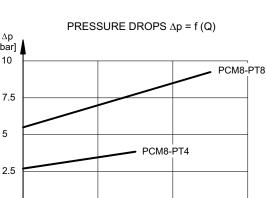
p [bar]

200



100

150



200

300

Q [l/min]

#### **3 - HYDRAULIC FLUIDS**

50

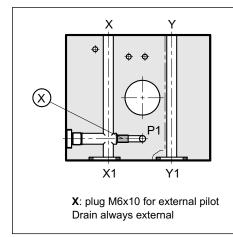
50

0

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.

0

#### 4 - PILOT AND DRAIN



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

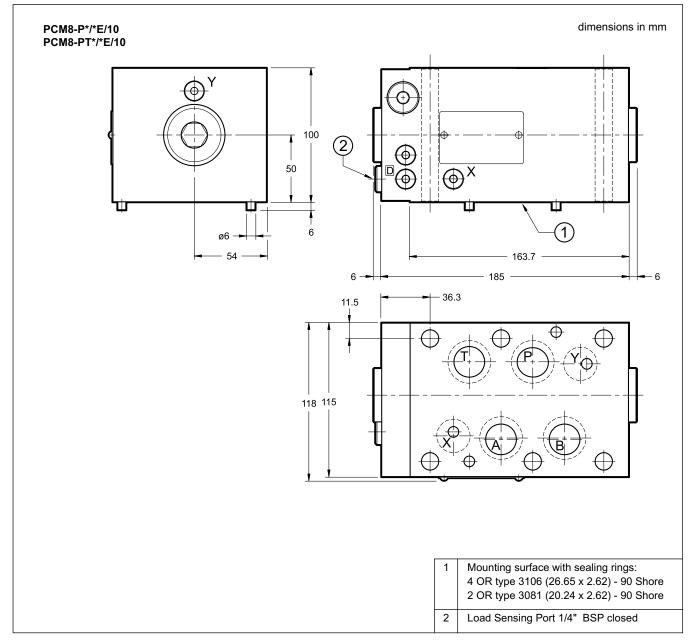
100

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

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



#### **5 - OVERALL AND MOUNTING DIMENSIONS**





DUPLOMATIC MS S.p.A.

via M. Re Depaolini 24 • 20015 PARABIAGO (MI) • ITALY

tel. +39 0331.895.111 • www.duplomatic.com • e-mail: sales.exp@duplomatic.com