



**DIPLOMATIC  
HYDRAULICS**

61 230/198 ED



# PCDM3

## DIRECT OPERATED THREE-WAY PRESSURE COMPENSATOR SERIES 10

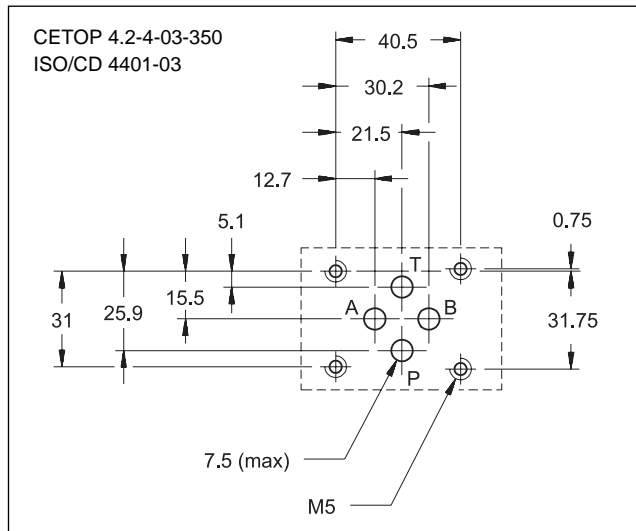
### MODULAR VERSION

### CETOP 03

p max **350** bar

Q max **40** l/min

### MOUNTING INTERFACE

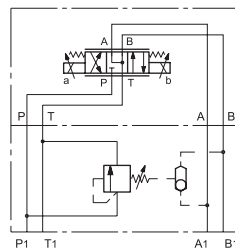


### OPERATING PRINCIPLE

- The valve PCDM3 is a direct operated three-way pressure regulator, developed as a modular version with mounting surface according to the CETOP and ISO standards.
- Its aim is to keep at a constant level the pressure drop setting between the line P and alternatively the lines A and B.
- 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 pilot pressure on the lines A and B is carried out automatically via a shuttle check valve built into the compensator.
- The setting of the compensator can be varied from 5 to 40 bar via a countersunk hex adjustment screw or via an adjustment knob.

### APPLICATION EXAMPLES

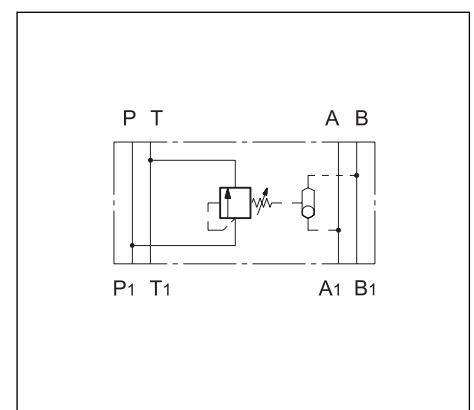
Compensator combined with a proportional valve type MD1E-S9\*



### PERFORMANCE RATINGS (working with mineral oil of viscosity of 36 cSt at 50°C)

Maximum operating pressure	bar	350
Differential pressure regulation range	bar	5 ÷ 40
Maximum flow rate	l/min	40
Ambient temperature range	°C	-10 ÷ +50
Fluid temperature range	°C	-20 ÷ +70
Fluid viscosity range	cSt	2,8 ÷ 380
Recommended viscosity	cSt	25
Degree of fluid contamination	according to NAS 1638 class 10	
Mass	kg	1.4

### HYDRAULIC SYMBOLS

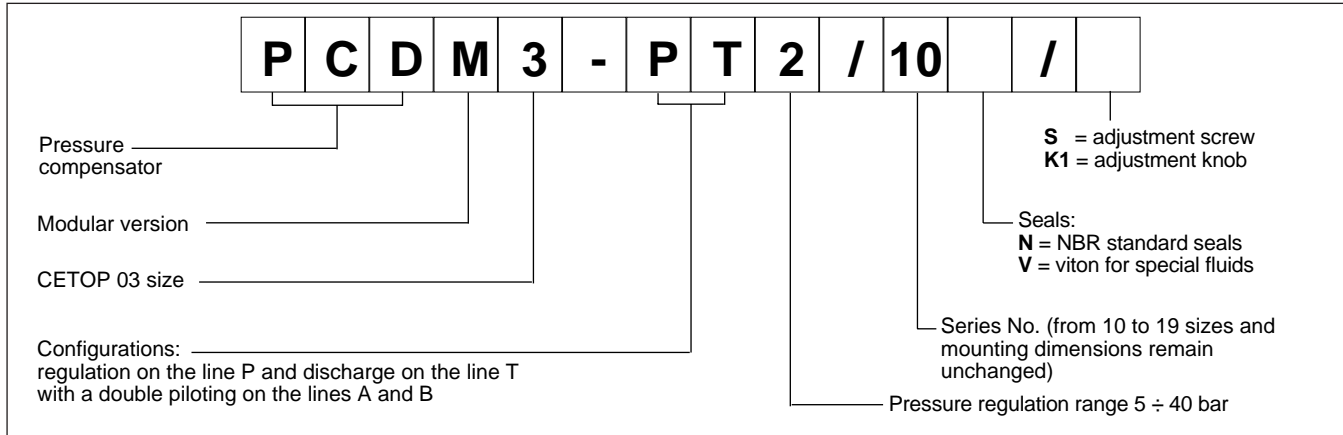




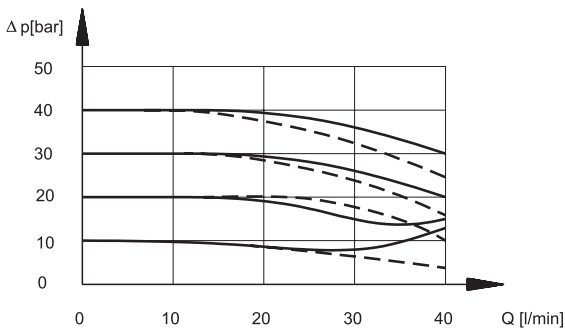
# PCDM3

## SERIES 10

### 1 - IDENTIFICATION CODE



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



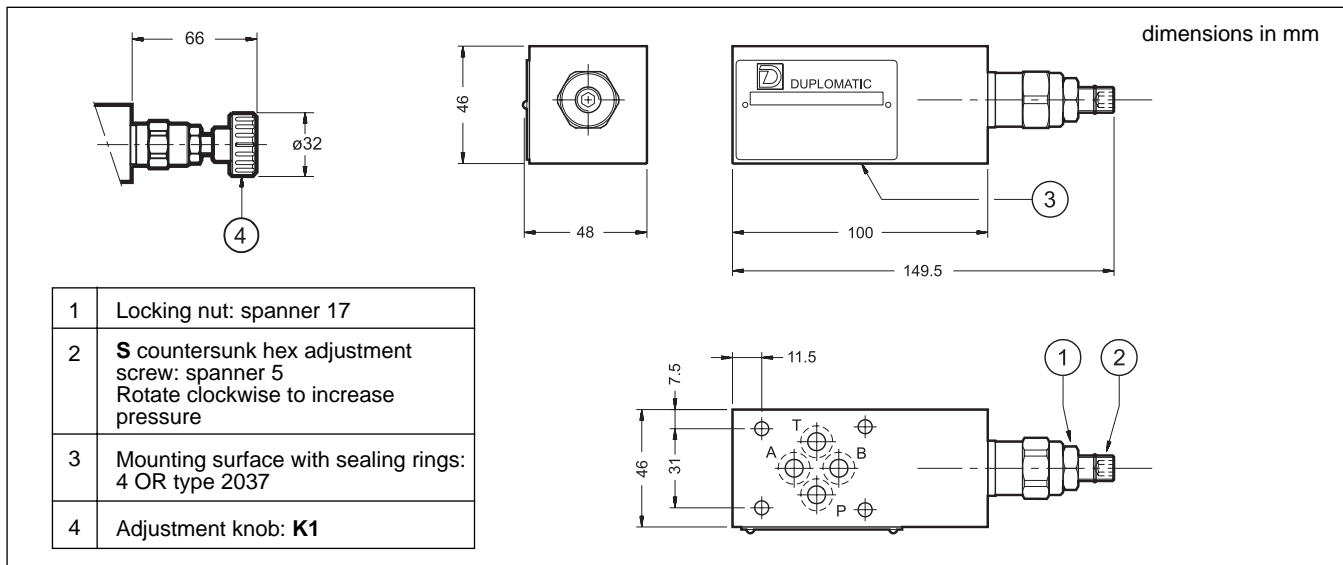
The control curves of the diagram are stated according to the compensator flow rate change and to different  $\Delta p$  setting values between the lines P-A and P-B

——— user pressure = 30 bar  
 - - - - - user pressure = 140 bar

### 3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids, with addition of suitable anti-frothing and anti-oxidizing agents. For the use of other types (water glycol, phosphate esters and others), please consult our technical department.

### 4 - OVERALL AND MOUNTING DIMENSIONS



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