

# PZM3

## DIRECT OPERATED THREE-PORT PRESSURE REDUCING VALVE WITH VARIABLE ADJUSTMENT

SERIES 10

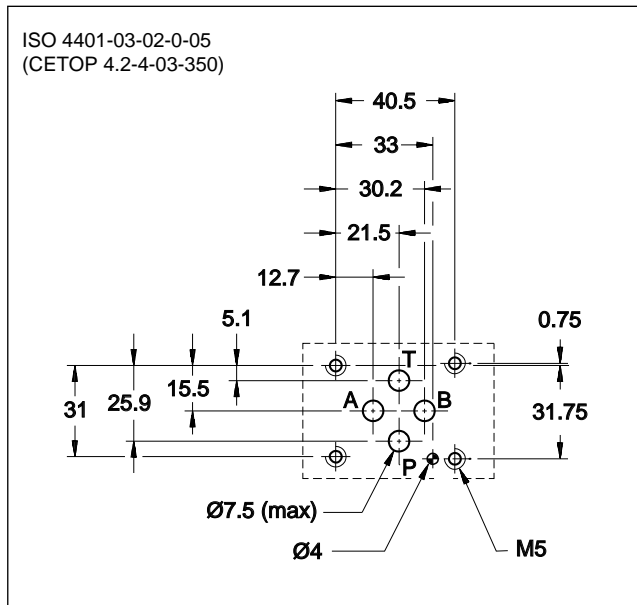


### MODULAR VERSION ISO 4401-03

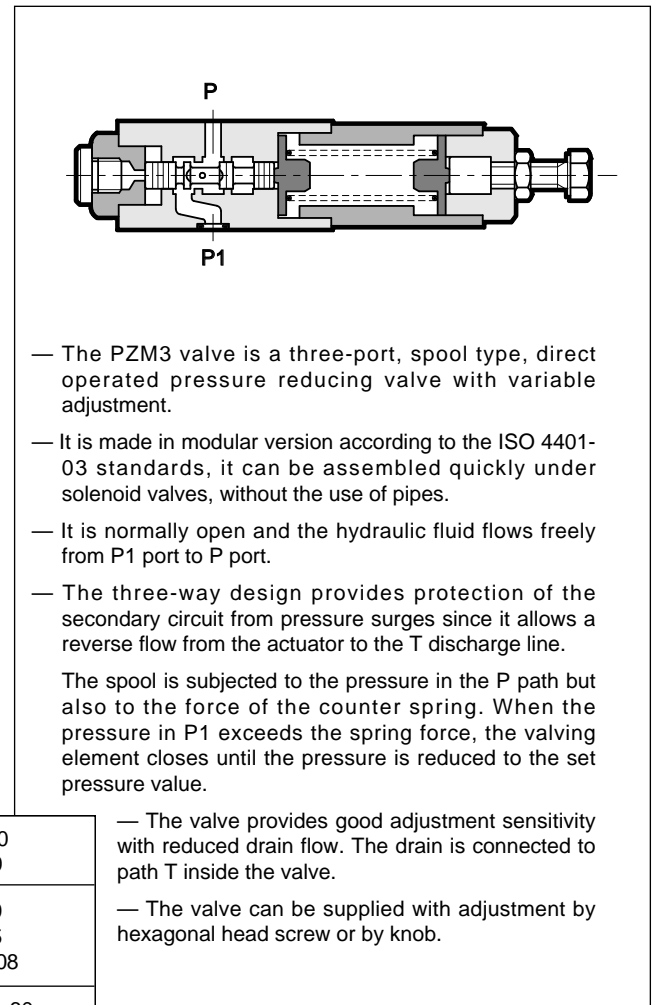
**p** max **350** bar

**Q** max (see table of performances)

### MOUNTING INTERFACE



### OPERATING PRINCIPLE



### PERFORMANCES

(measured with mineral oil of viscosity 36cSt at 50°C)

Maximum operating pressure Maximum pressure on port T	bar	350 10
Maximum flow rate in the controlled lines Maximum flow rate in the free lines Drainage flow rate	l/min	50 75 ≤ 0.08
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	1.6

### 1 - IDENTIFICATION CODE

<b>P</b>	<b>Z</b>	<b>M</b>	<b>3</b>	<b>-</b>		<b>/ 10</b>	<b>/</b>		
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Pressure reducing valve, direct operated

Modular version

Size ISO 4401-03

Configurations:

- P** = pressure reduction in P. Internal drain to line T and adjustment on side B
- PA** = pressure reduction in line P-A and full pressure in line P-B with adjustment on side B
- PB** = pressure reduction in line P-B and full pressure in line P-A with adjustment on side B
- RP** = pressure reduction in P. Internal drain to line T and adjustment on side A
- RPA** = pressure reduction in line P-A and full pressure in line P-B with adjustment on side A
- RPB** = pressure reduction in line P-B and full pressure in line P-A with adjustment on side A

Option: **/W7** surface treatment. Available only for PZM3-P and PZM3-RP. Omit if not required (**NOTE**)

Adjustment type:  
**S** = with hexagonal head screw (**standard**)  
**CK3** = with push, adjust, lock knob (see point 6)

Seals:  
**N** = NBR seals for mineral oils (**standard**)  
**V** = FPM seals for special fluids

Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)

Pressure adjustment range:  
**035** = 3 ÷ 35 bar    **140** = 30 ÷ 140 bar  
**070** = 10 ÷ 70 bar    **280** = 50 ÷ 280 bar

**NOTE:** The standard valve is supplied with surface treatment of phosphating black. The zinc-nickel finishing on the valve body makes the valve suitable to ensure a salt spray resistance up to **240** hours. (test operated according to UNI EN ISO 9227 standards and test evaluation operated according to UNI EN ISO 10289 standards).

### 2 - HYDRAULIC SYMBOLS

PZM3-P  
PZM3-RP

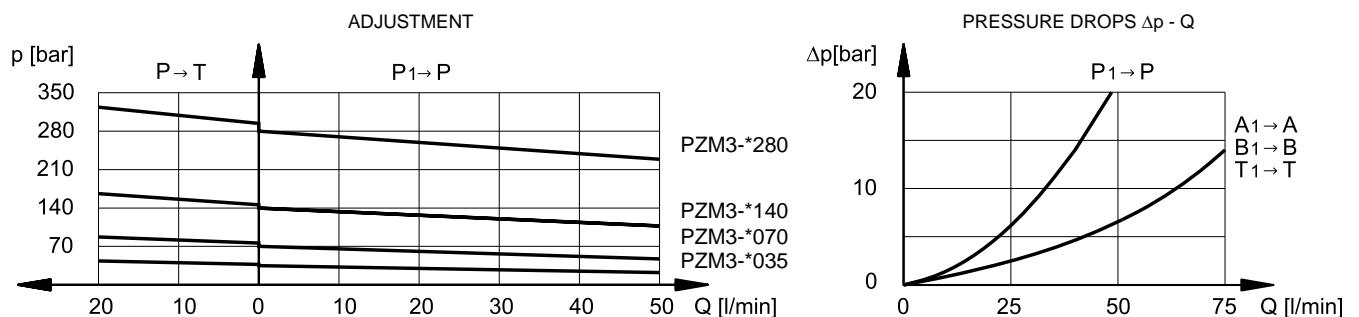
PZM3-PA  
PZM3-RPA

PZM3-PB  
PZM3-RPB

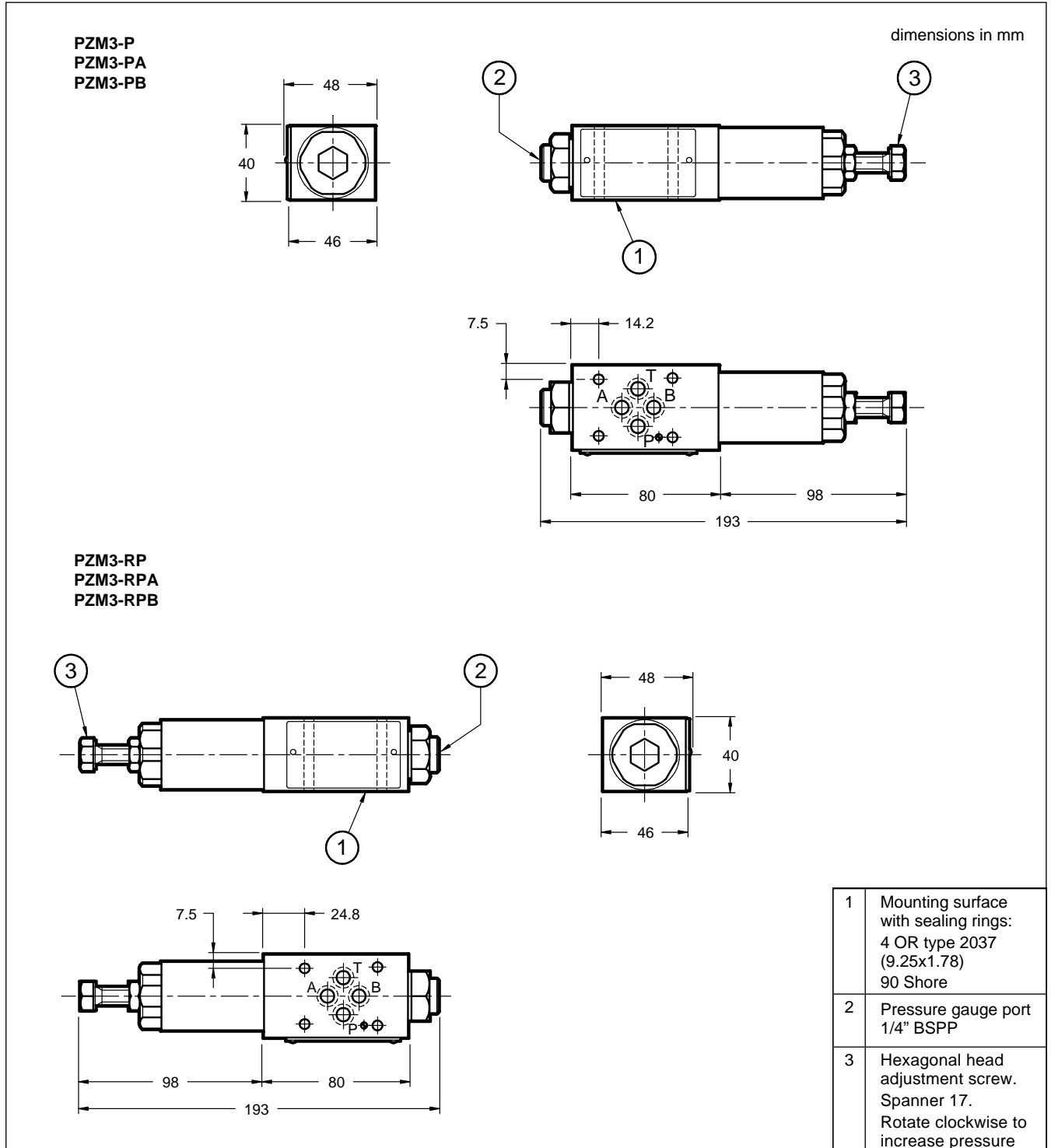
**NOTE:** The versions RP, RPA and RPB have been made with adjustment on side A, so as to be interchangeable with valves of other companies. The standard version is equipped with adjustment on side B.

### 3 - CHARACTERISTIC CURVES

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



## 4 - OVERALL AND MOUNTING DIMENSIONS



## 5 - 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.



## 6 - ADJUSTMENT KNOB

Valves can be supplied with adjustment knob, which is engaged by pushing and twisting at the same time. When released, the knob disengages to secure the adjustment from involuntary tampering.

Add **CK3** in the identification code to order this version (see point 1).

