



**DIPLOMATIC**  
HYDRAULICS

62 200/104 ED



# MZD

## DIRECT OPERATED THREE-WAY PRESSURE REDUCING VALVE

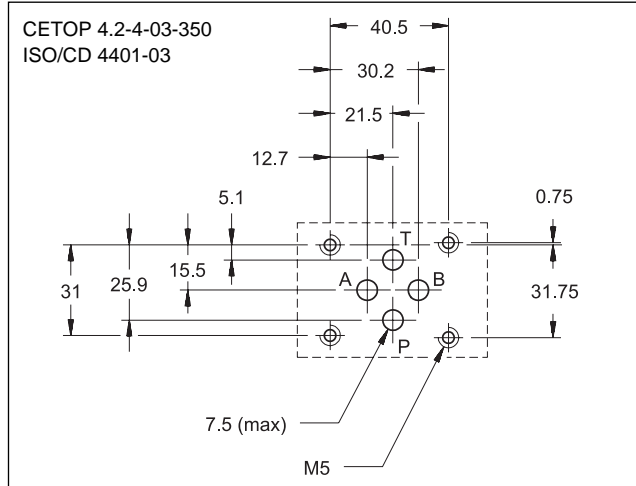
### MODULAR VERSION

### CETOP 03

**p** max 350 bar

**Q** max (see performance ratings table)

### MOUNTING INTERFACE



### CONFIGURATIONS (see Hydraulic symbols table)

- MZD\*: pressure reduction on line P, drainage connected with line T.
- MZD\*/A and MZD\*/RA: pressure reduction on line A toward the actuator and maximum pressure in line B, drainage connected with line T.
- MZD\*/B and MZD\*/RB: pressure reduction on line B toward the actuator and maximum pressure in line A, drainage connected with line T.

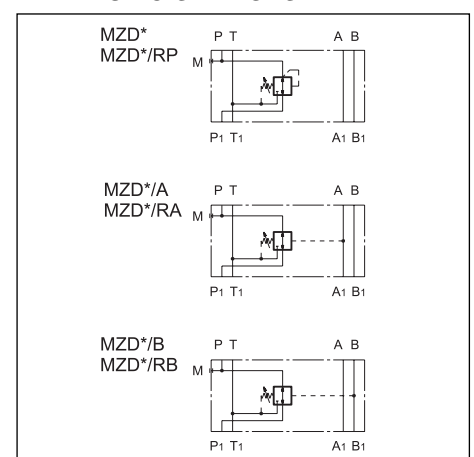
### OPERATING PRINCIPLE

- The MZD valve is a three-way spool type direct operated pressure reducing valve. It is normally open in the rest position and the hydraulic fluid passes freely from the P<sub>1</sub> line to the P line.
- The spool is subjected to the line P pressure on one side, and on the other side by the adjustment spring. When the pressure in line P exceeds the value set by the spring, the valve closes until the pressure in P (reduced) equals the calibrated value.
- The valve construction provides good adjustment sensitivity with reduced drainage flow. The drainage is connected to line T inside the valve.
- The three-way design provides protection of the secondary circuit from pressure surges since it allows a reverse flow from the actuator to the T discharge line.
- It is made as a modular version with ports according to the CETOP and ISO standards and can be assembled quickly, without use of pipes, under the CETOP 03 solenoid valves.
- It is normally supplied with a hexagonal head adjustment screw. Upon request, it can be equipped with a SICBLOC adjustment knob.

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

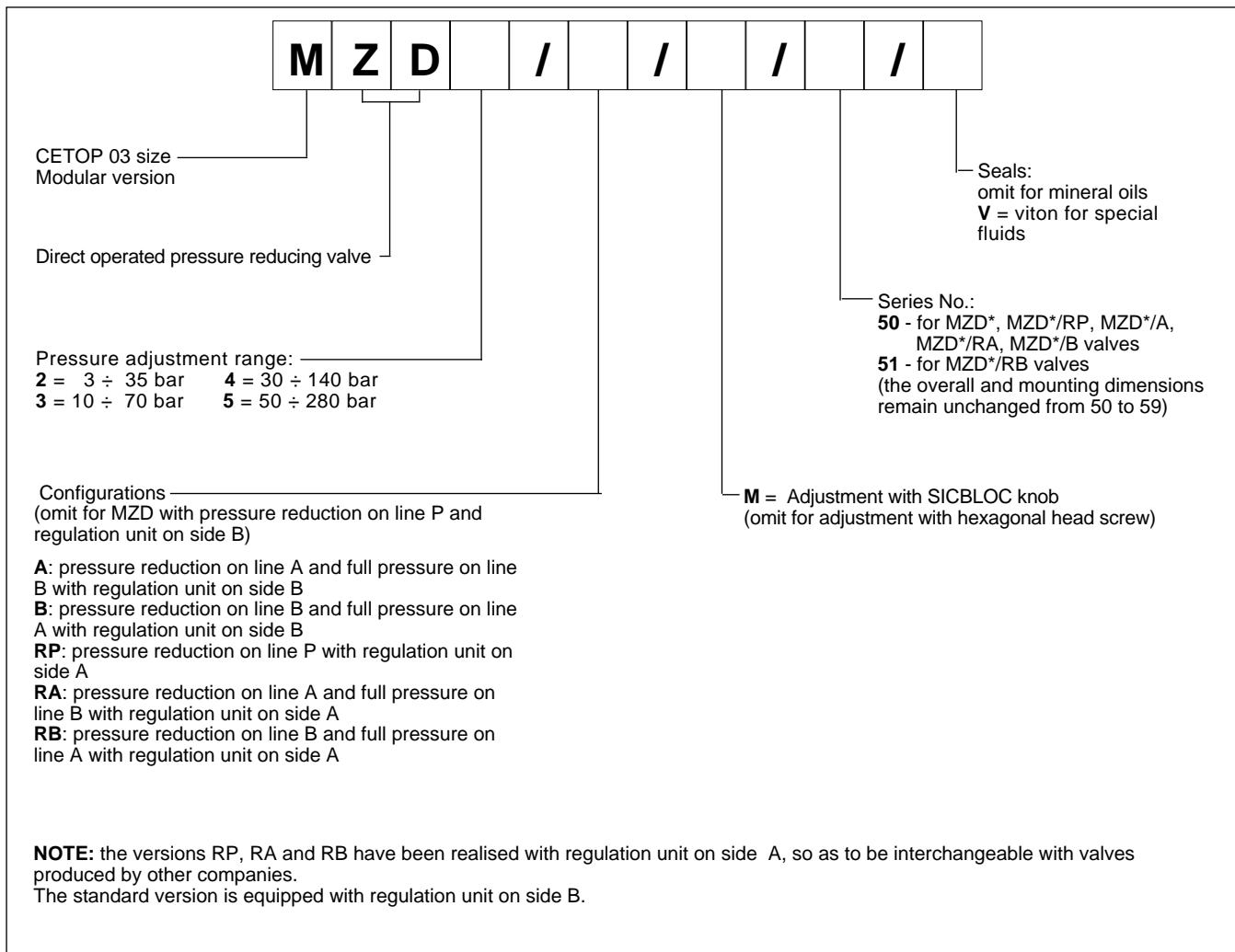
Maximum operating pressure	bar	350
Maximum pressure on port T	bar	10
Maximum flow rate in the controlled lines	l/min	50
Maximum flow rate in the free lines	l/min	75
Drainage flow rate	l/min	≤ 0,08
Ambient temperature range	°C	-20 ÷ +50
Fluid temperature range	°C	-20 ÷ +80
Fluid viscosity range	cSt	10 ÷ 400
Recommended viscosity	cSt	25
Degree of fluid contamination	According to NAS 1638 class 10	
Mass	kg	1,4

### HYDRAULIC SYMBOLS

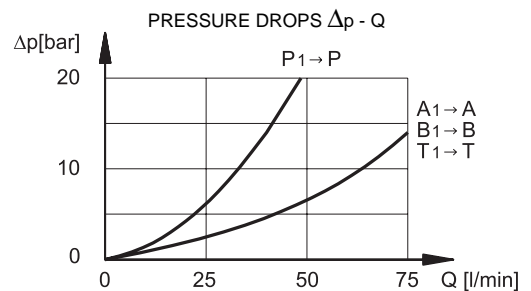
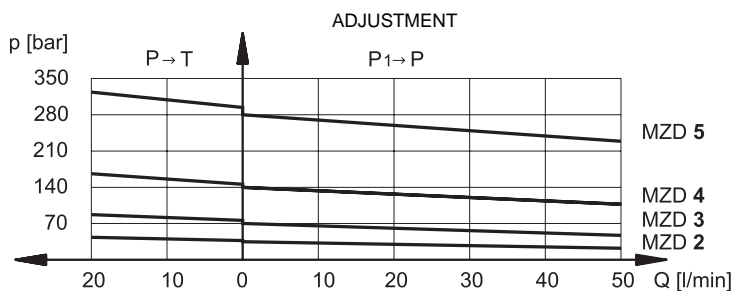




## 1 - IDENTIFICATION CODE



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



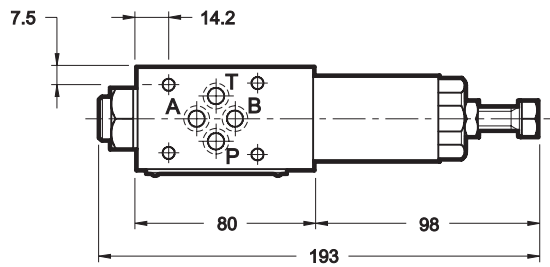
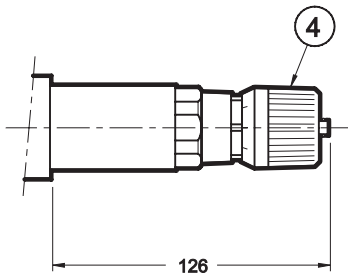
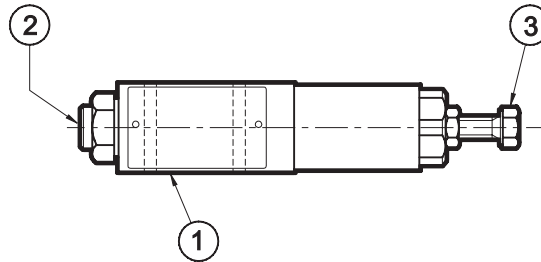
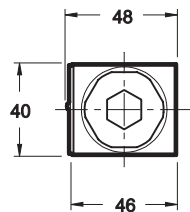
## 3 - HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids, with the 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.

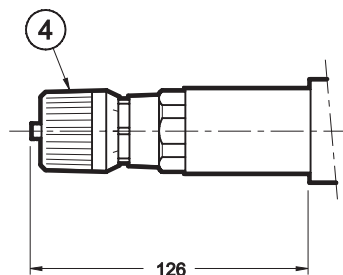
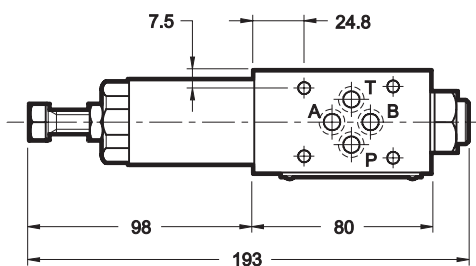
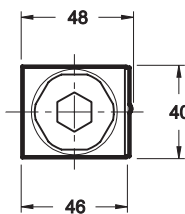
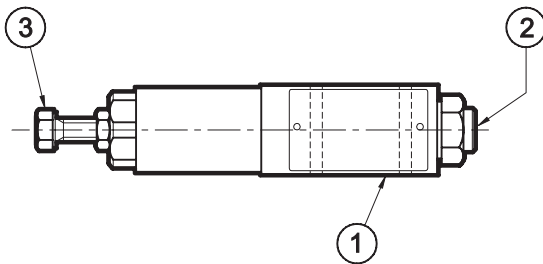


## 4 - OVERALL AND MOUNTING DIMENSIONS

MZD\*  
MZD\*/A  
MZD\*/B



MZD\*/RP  
MZD\*/RA  
MZD\*/RB



dimensions in mm

1	Mounting surface with sealing rings: 4 OR type 2037
2	Pressure gauge port 1/4" BSP
3	Hexagonal head adjustment screw. Spanner 17. Rotate clockwise to increase pressure
4	SICBLOC knob. To operate, push and rotate at the same time.



MZD



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