



**DIPLOMATIC**  
HYDRAULICS

62 200/104 ED



# MZD

## DIRECT OPERATED THREE-WAY PRESSURE REDUCING VALVE

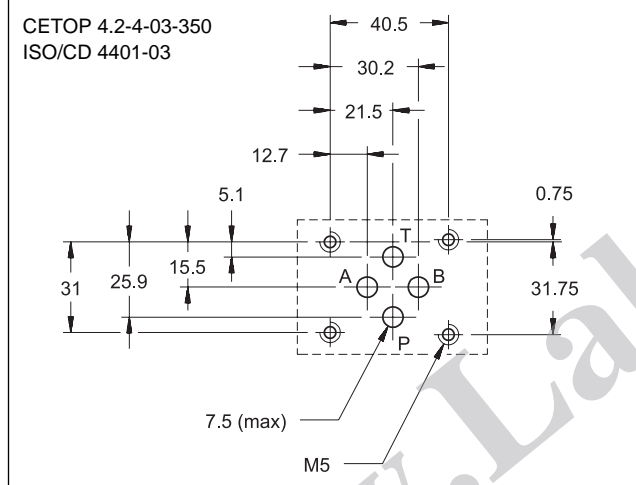
### MODULAR VERSION

### CETOP 03

p max **350** bar

Q max (see performance ratings table)

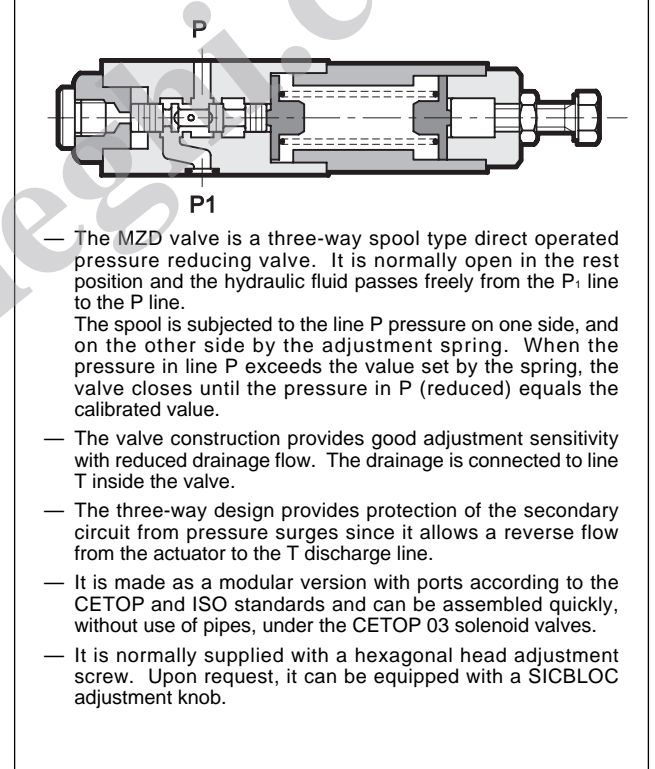
### MOUNTING INTERFACE



### 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.

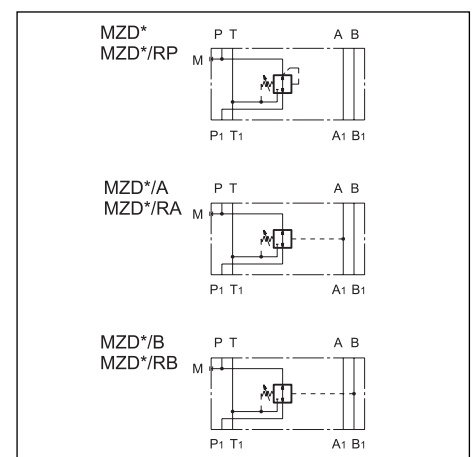
### OPERATING PRINCIPLE



### 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

<b>M</b>	<b>Z</b>	<b>D</b>	/	/	/	/
----------	----------	----------	---	---	---	---

CETOP 03 size  
Modular version

Direct operated pressure reducing valve

Pressure adjustment range: \_\_\_\_\_  
**2** = 3 ÷ 35 bar    **4** = 30 ÷ 140 bar  
**3** = 10 ÷ 70 bar    **5** = 50 ÷ 280 bar

Configurations \_\_\_\_\_  
 (omit for MZD with pressure reduction on line P and regulation unit on side B)

**A:** pressure reduction on line A and full pressure on line B with regulation unit on side B  
**B:** pressure reduction on line B and full pressure on line A with regulation unit on side B  
**RP:** pressure reduction on line P with regulation unit on side A  
**RA:** pressure reduction on line A and full pressure on line B with regulation unit on side A  
**RB:** pressure reduction on line B and full pressure on line A with regulation unit on side A

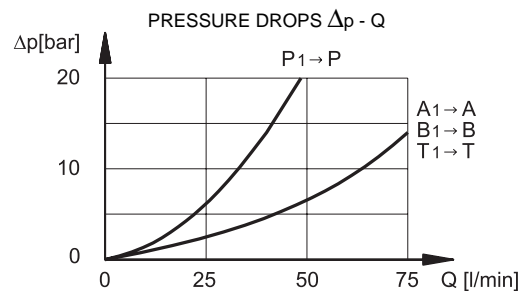
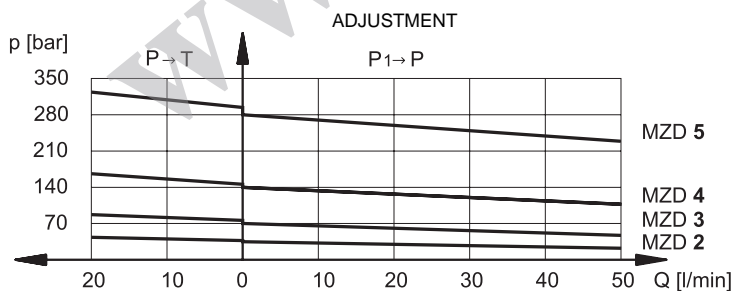
**NOTE:** the versions RP, RA and RB have been realised with regulation unit on side A, so as to be interchangeable with valves produced by other companies.  
 The standard version is equipped with regulation unit on side B.

Seals:  
omit for mineral oils  
**V** = viton for special fluids

Series No.:  
**50** - for MZD\*, MZD\*/RP, MZD\*/A, MZD\*/RA, MZD\*/B valves  
**51** - for MZD\*/RB valves  
 (the overall and mounting dimensions remain unchanged from 50 to 59)

**M** = Adjustment with SICBLOC knob  
 (omit for adjustment with hexagonal head screw)

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



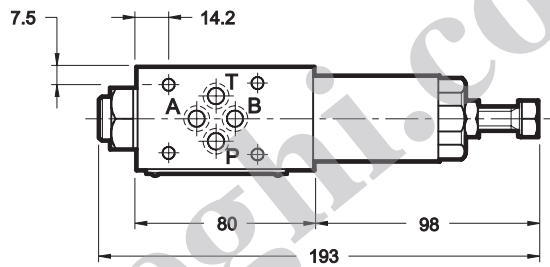
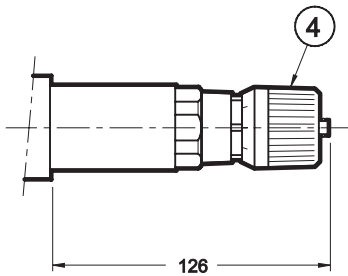
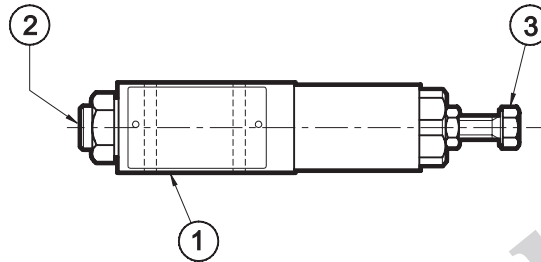
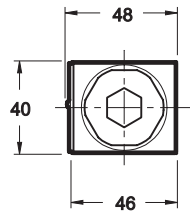
## 3 - HYDRAULIC FLUIDS

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.

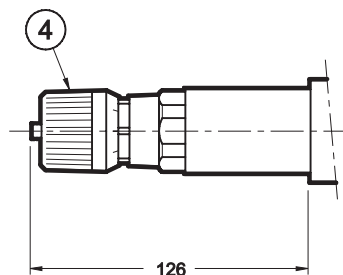
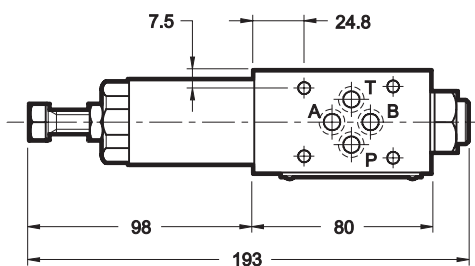
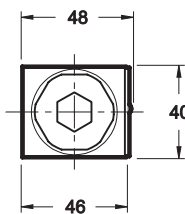
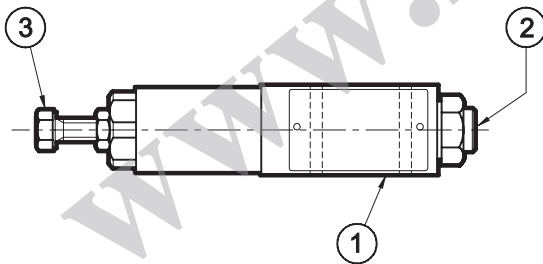


## 4 - OVERALL AND MOUNTING DIMENSIONS

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

[www.Laheghi.com](http://www.Laheghi.com)



**DIPLOMATIC  
HYDRAULICS**

**DIPLOMATIC OLEODINAMICA SpA**

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