

MZD

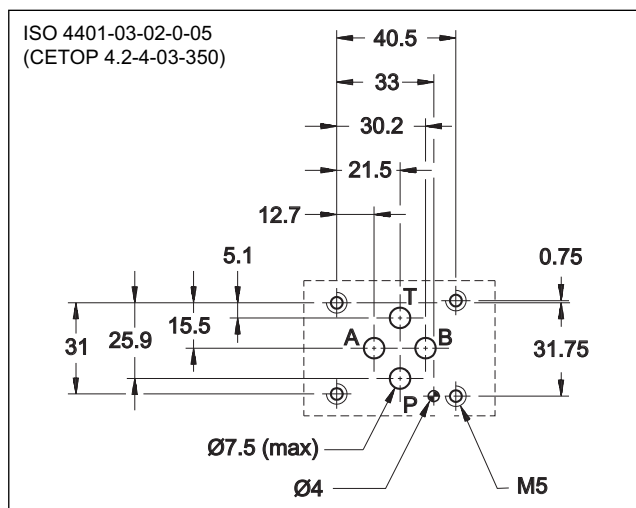
DIRECT OPERATED THREE-WAY PRESSURE REDUCING VALVE WITH FIXED OR VARIABLE ADJUSTMENT

MODULAR VERSION ISO 4401-03

p max **350** bar

Q max (see table of performances)

MOUNTING INTERFACE



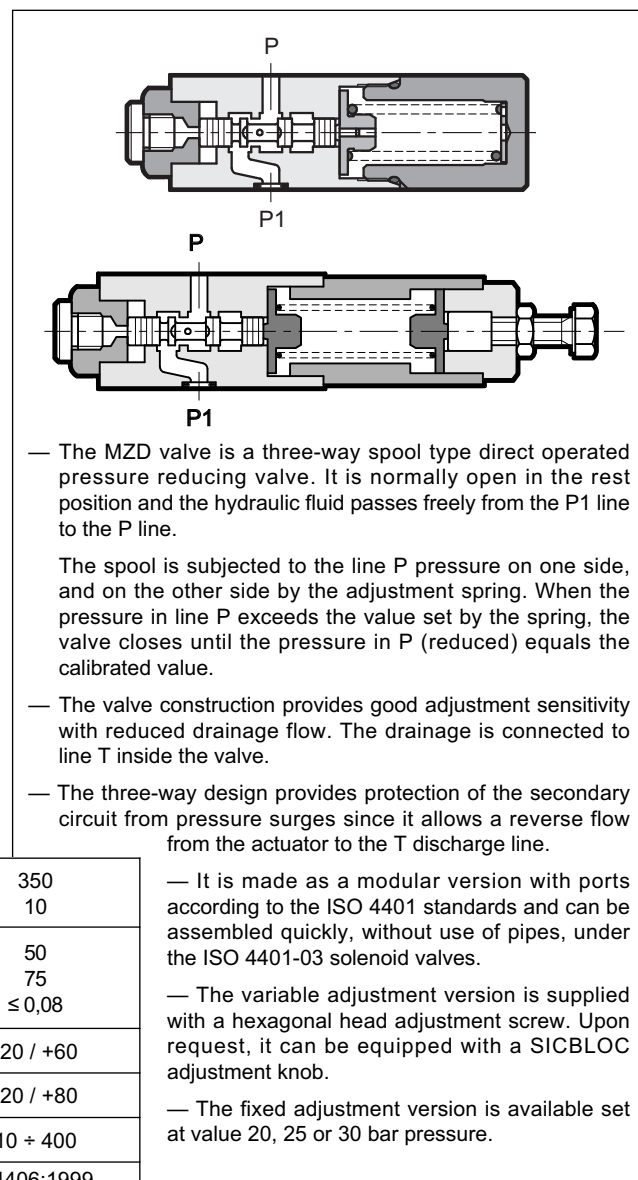
CONFIGURATIONS (see hydraulic symbols at par.1)

- 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.

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

Maximum operating pressure	bar	350
Maximum pressure on port T		10
Maximum flow rate in the controlled lines	l/min	50
Maximum flow rate in the free lines		75
Drainage flow rate		≤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	1,4

OPERATING PRINCIPLE



1 - IDENTIFICATION CODE OF MZD VARIABLE ADJUSTMENT VERSION

M	Z	D							
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Size: ISO 4401-03 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

Hydraulic symbols

MZD*
MZD*/RP

MZD*/A
MZD*/RA

MZD*/B
MZD*/RB

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

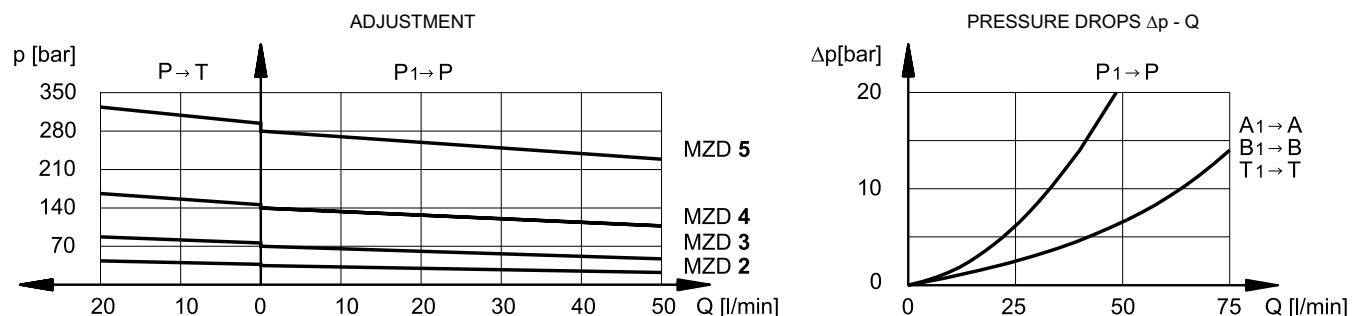
Series No.:
50 - for MZD*, MZD*/RP, MZD*/A, MZD*/RA, MZD*/B valves
51 - for MZD*/RB valves
 (the overall and mounting dimensions remain unchanged from 50 to 59)

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

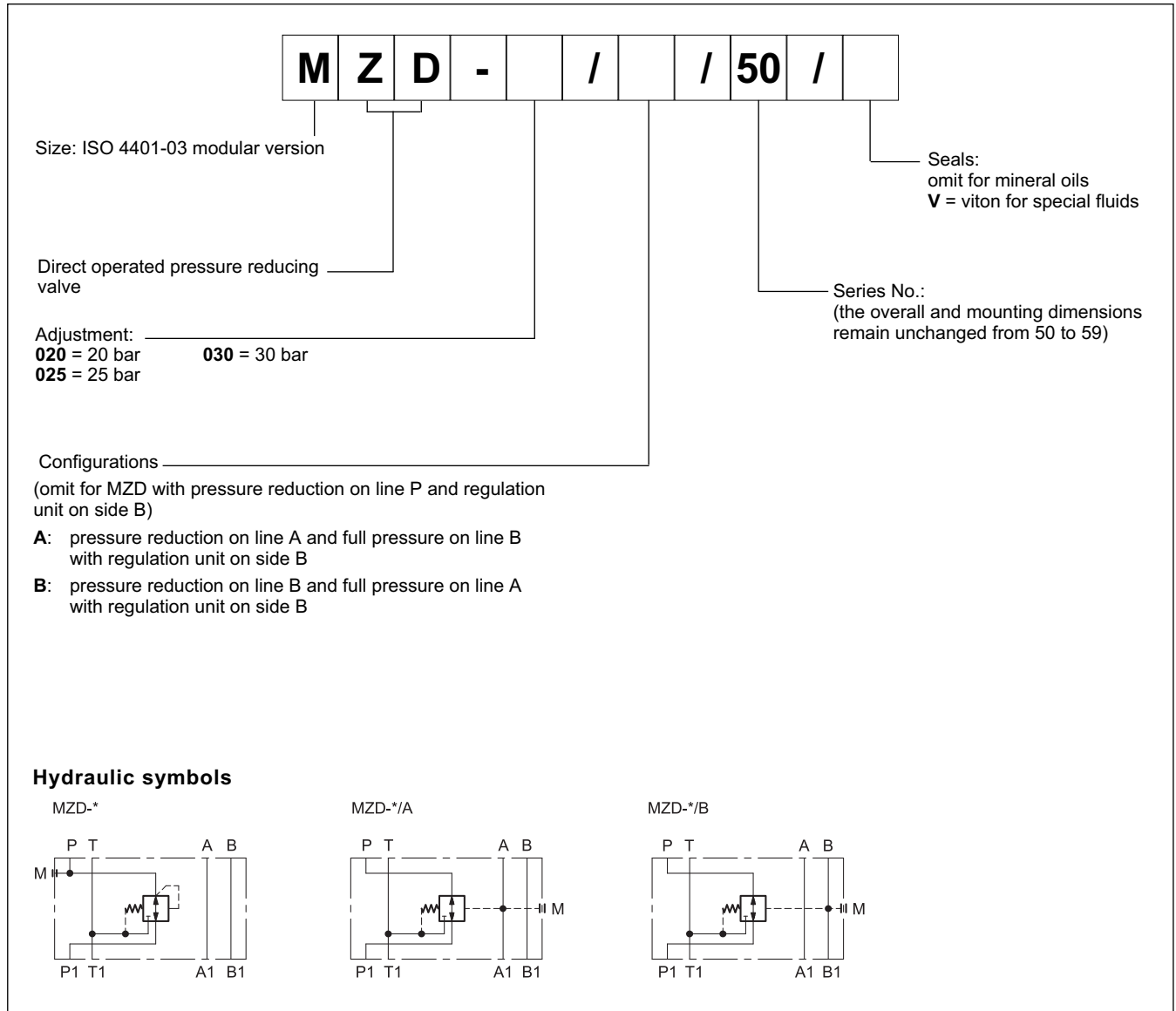
NOTE: the versions RP, RA and RB have been realised with regulation unit on side A, so as to be interchangeable with valves produced by other companies.
 The standard version is equipped with regulation unit on side B.

2 - MZD VARIABLE ADJUSTMENT VERSION CHARACTERISTIC CURVES

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



3 - IDENTIFICATION CODE OF MZD FIXED ADJUSTMENT VERSION



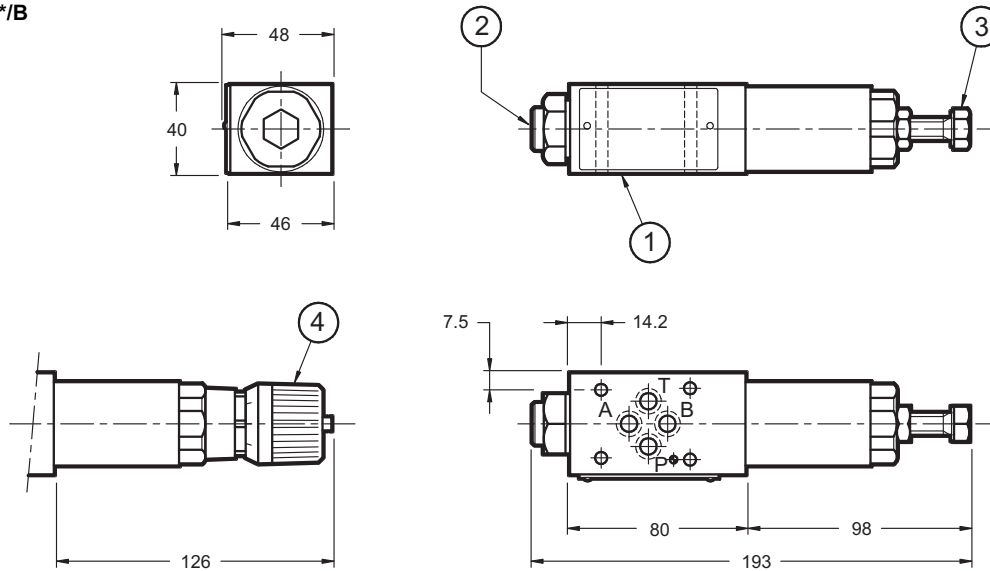
4 - HYDRAULIC FLUIDS

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.

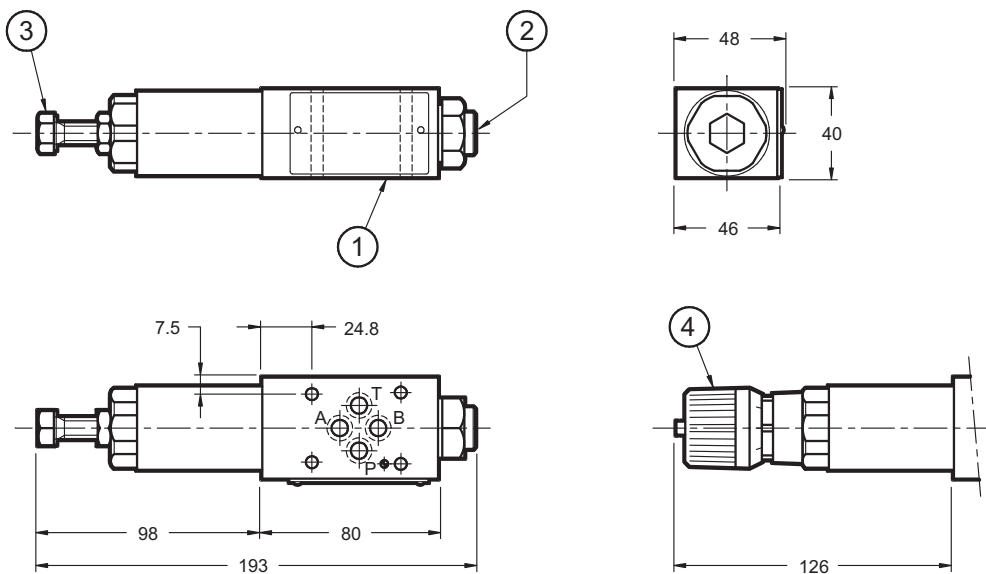
Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics. The fluid must be preserved in its physical and chemical characteristics.

5 - OVERALL AND MOUNTING DIMENSIONS VARIABLE ADJUSTMENT VERSION

MZD*
MZD*/A
MZD*/B



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

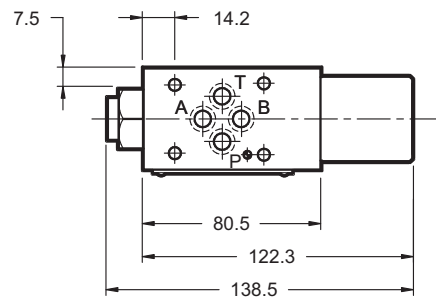
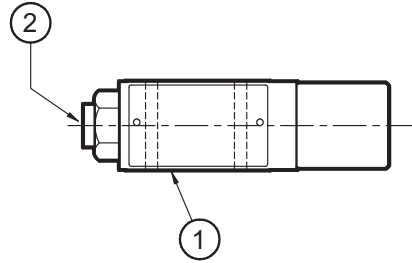
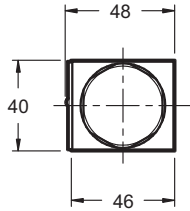


dimensions in mm

1	Mounting surface with sealing rings: 4 OR type 2037 (9.25x1.78) 90 Shore
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.

6 - OVERALL AND MOUNTING DIMENSIONS FIXED ADJUSTMENT VERSION

MZD-
MZD*/A
MZD*/B



dimensions in mm

1	Mounting surface with sealing rings: N. 4 OR type 2037 (9.25x1.78) 90 Shore
2	Pressure gauge port: 1/4" BSP

