

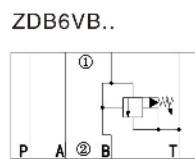
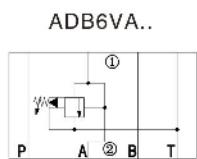
# ZDB/Z2DB-L4 Series Modular Relief Valve

## [Product Features]

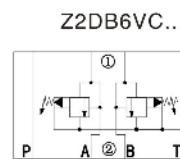
- Modular structure
- Mounting surface according to DIN24320E D type and ISO 5781
- Used as thread connection and oil block mounting
- Four kinds of pressure scope
- Six kinds of alternative effective flow
- Four adjustment types
- Knob
- Adjusting-bolt with protection cover
- Lockable knob with scale
- Knob with scale



## [hydraulic symbol]



ZDB6VP..

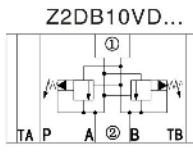
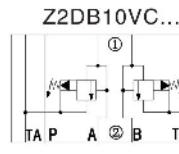
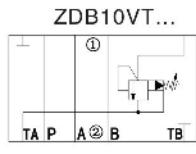
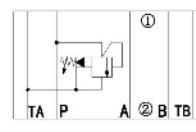
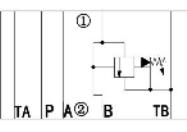
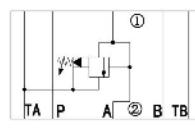
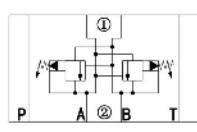


Z2DB6VD..

ZDB10VA...

ZDB10VB...

ZDB10VP...



## [Model Code]

Z	2	DB	10		+L4X	
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No code=NBR seal  
V=FKM seal

5= pressure can reach to 5MPa  
10= pressure can reach to 10MPa  
20= pressure can reach to 20MPa  
31.5= pressure can reach to 31.5MPa

L40=L40 series (L4-L49 series mounting and connection dimension remain the same)

1=with knob 2=regulating bolt with protection cover  
3=regulating handle with lock 4=knob with scale

Relief function from → to A→TA=VA P→TA=VP TB1→TA2=VT  
(only NG10 available) B→TB=VB A→TA, B→TB=VC A→B, B→A=VD

Size 6=NG6 10=NG10

Pilot operated relief valve =DB

Only suit to VC and VD With two plug in relied valve =2

Modular type = Z

notice1: overflow function

A→TA =VA  
P→TA =VP  
TB1→TA2 =VT  
( only diameter 10 has )  
B→TB =VB  
A→TA and B→TB =VC  
A→B and B→A =VD

notice2: way of adjusting pressure

1=knob  
2=adjustable bolt with protection cover  
3=knob with scale and lock  
4=knob with scale

notice3: range of adjusting pressure

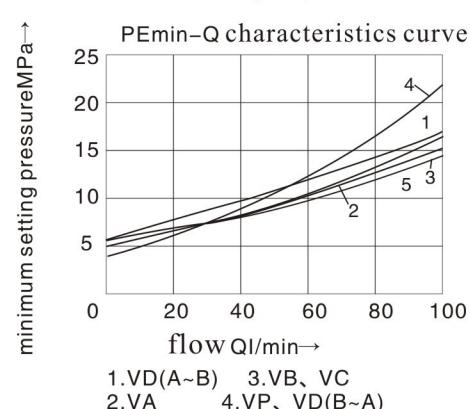
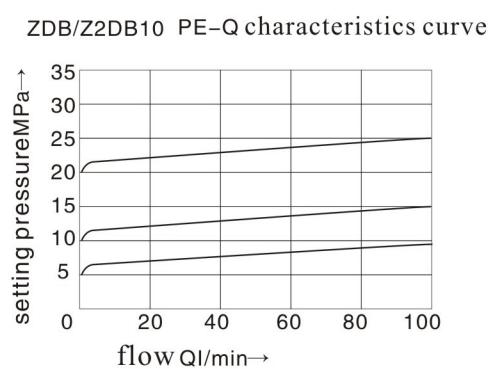
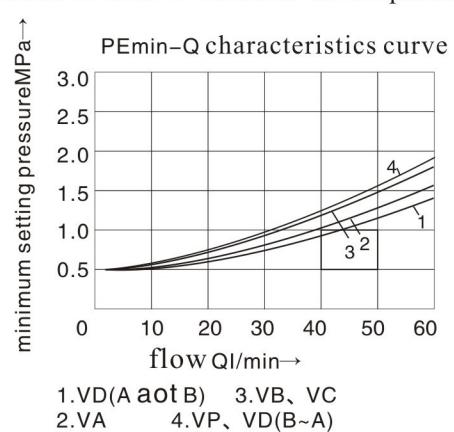
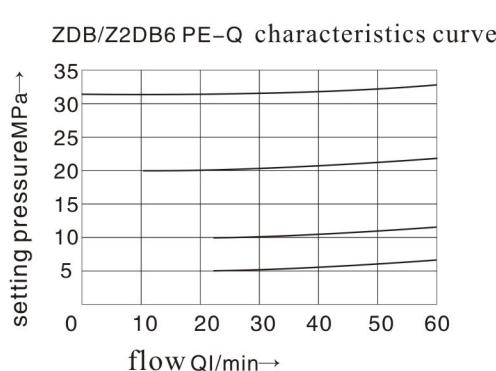
5Mpa/ pressure can be  
adjusted to 5Mpa  
10Mpa, 20Mpa, 31.5Mpa

## [Technical Data]

Working medium	Suitable for NBR or fluorine rubber seal Suitable for fluorine rubber seal	Mineral oil-suit to NBR or FKM seals Phosphate-suit to FKM seals	
Temperature range of the scope	°C	-30~+80(NBR seals) -20~+80(FKM seals)	
Viscosity scope	mm <sup>2</sup> /s	10~800	
The oil cleanliness		The maximum oil pollution level according to NAS1638 class 9 and ISO4406 20, 18, class 15	
The maximum working pressure Chamber A	MPa	31.5	
The maximum adjustment pressure	MPa	5; 10; 20; 31.5	
The maximum flow	l/min	100	
Weight	ZDB6、Z2DB6 ZDB10、Z2DB10	kg kg	1.0、1.2 2.7、3.1

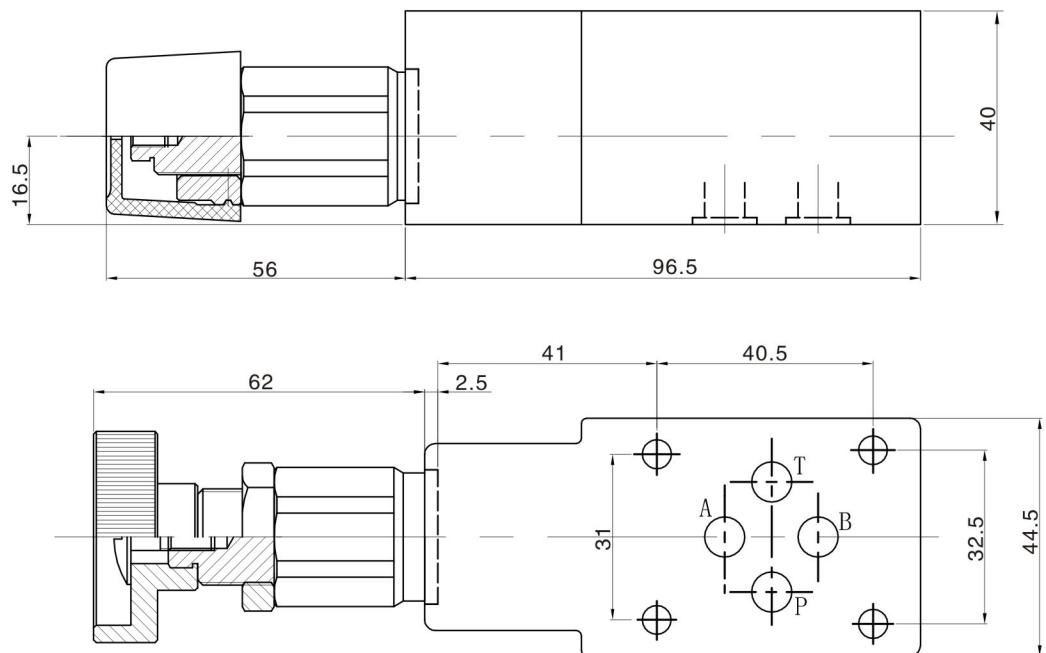
## [characteristics of flow-pressure]

measured when there was no back pressure, and using mineral oil HLP46 which its oil temperature is 40°C

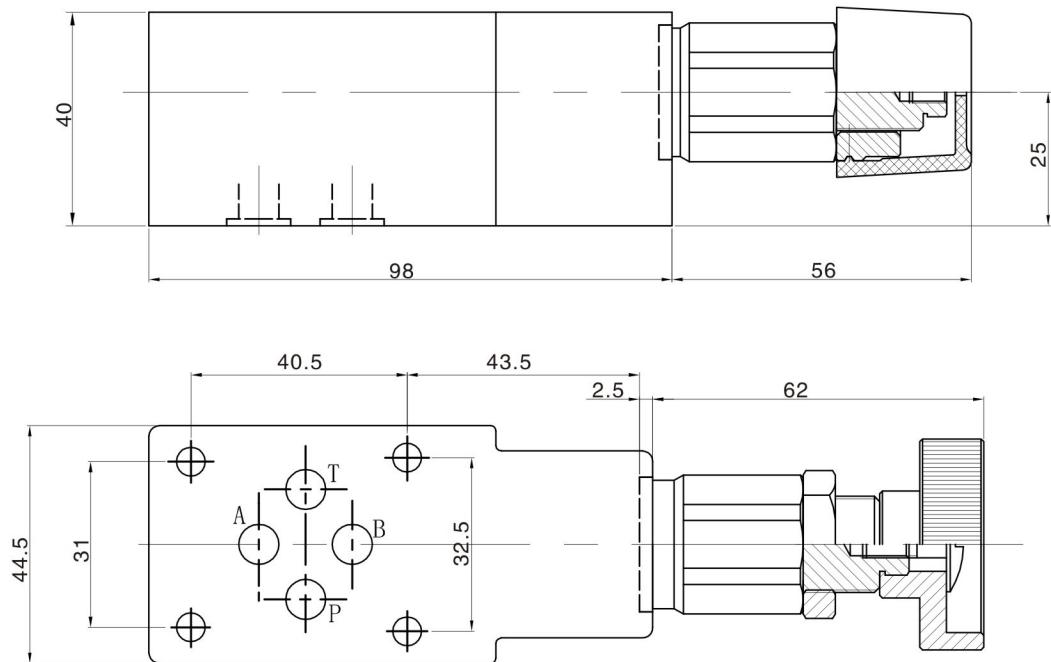


## [installation dimension]

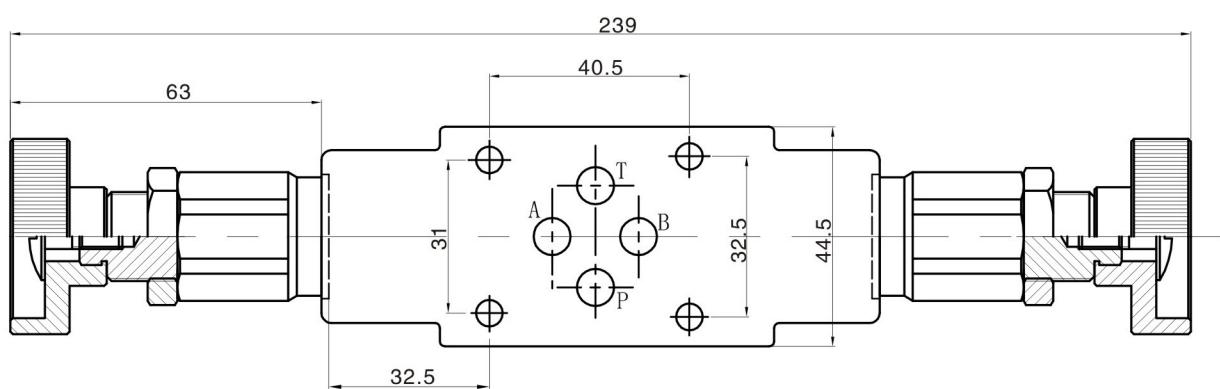
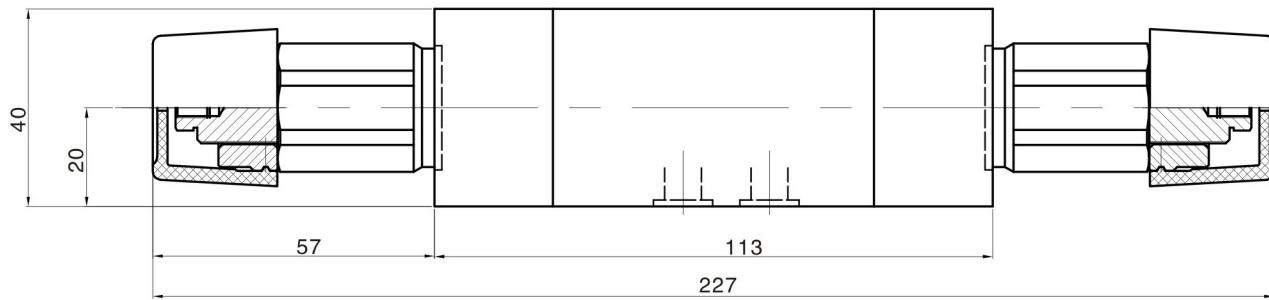
ZDB6VA



ZDB6VB/ZDB6VP

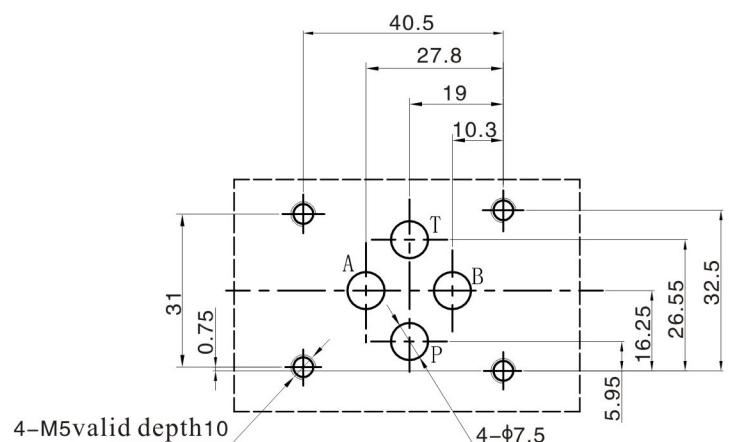


Z2DB6VC/Z2DB6VD

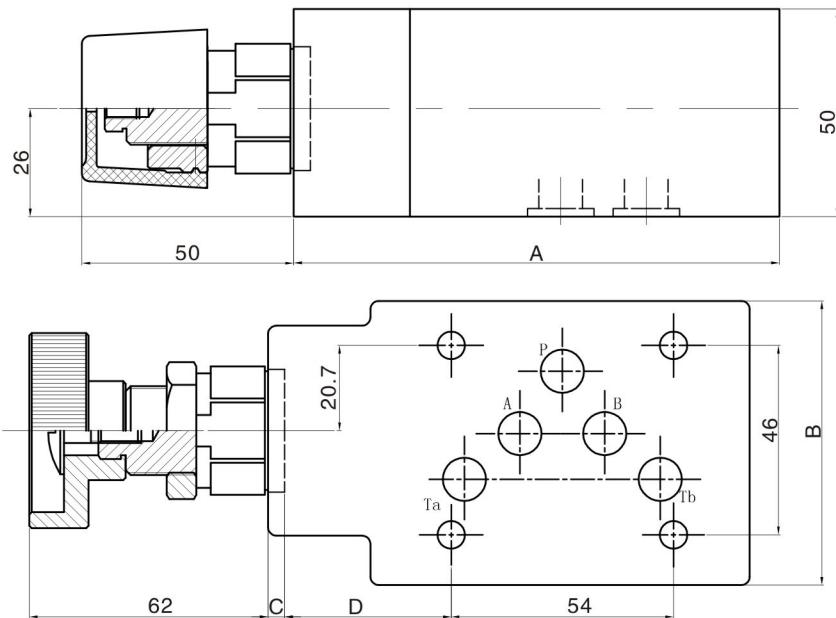


0.01/100mm  
0.8

the surface of mating parts  
request precision process

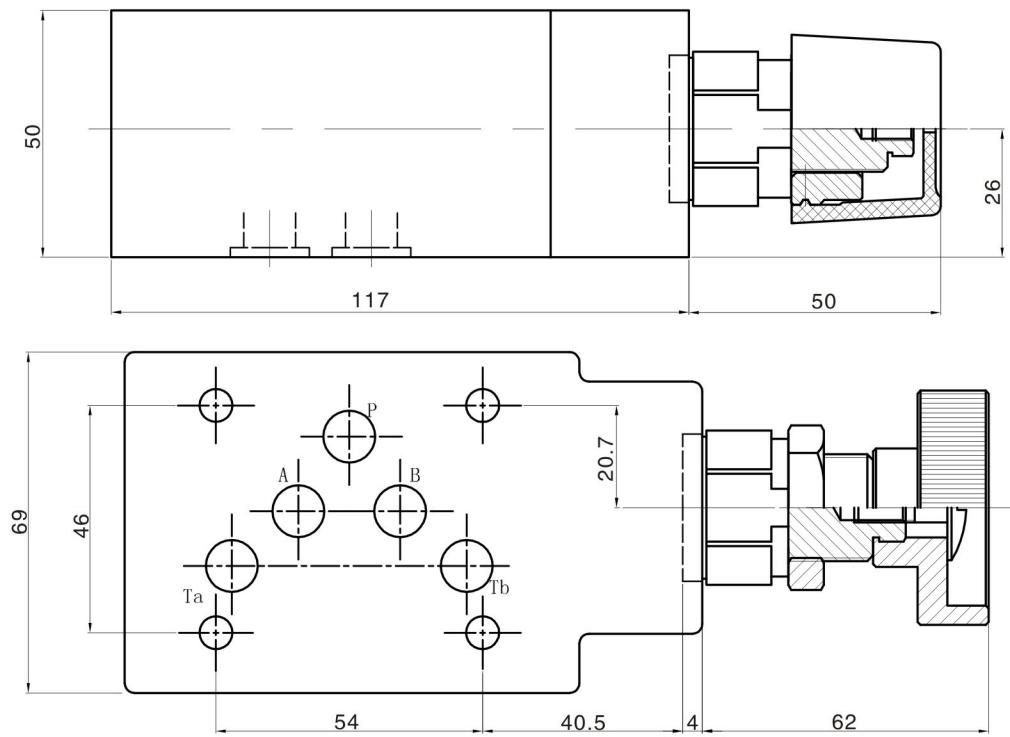


ZDB10VA/ZDB10VP/ZDB10VT

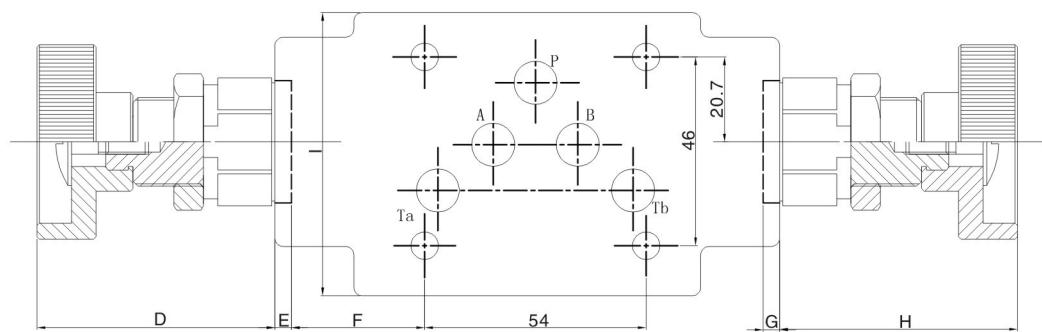
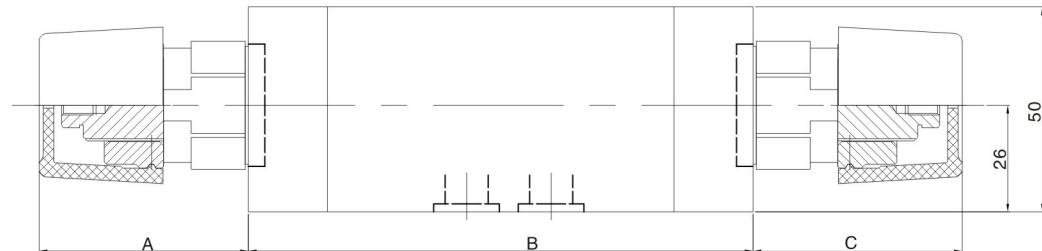


type	A	B	C	D
ZDB10VA and ZDB10VP	117	69	4	40.5
ZDB10VT	105	70	2	27.8

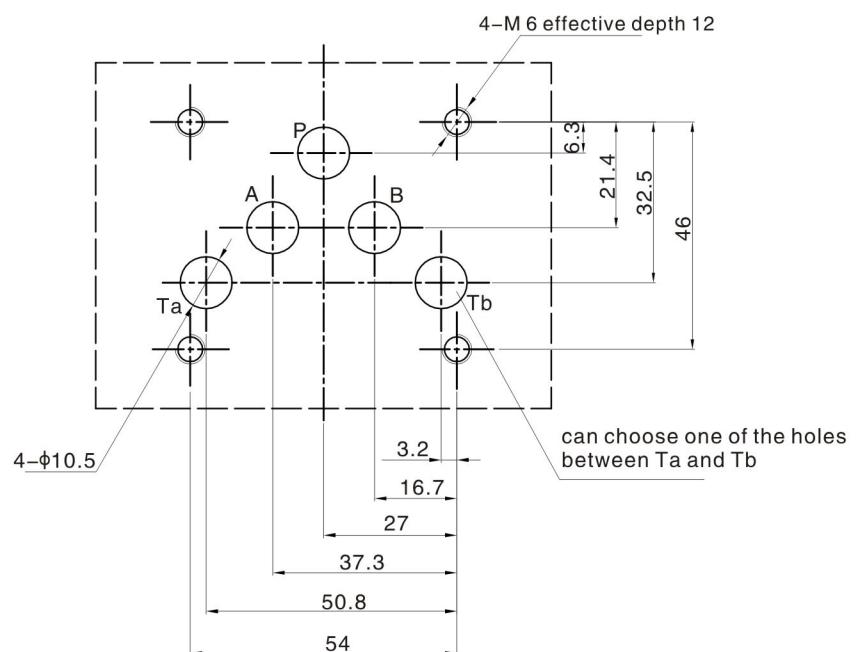
ZDB10VB



Z2DB10VC/Z2DB10VD



the surface of mating parts  
request precision process



type	A	B	C	D	E	F	G	H	I
ZDB10VC	52	123	53	64	2	32.5	1	53	69
ZDB10VD	48	132	48	60	6	33	6	48	70