

BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.	Direct operated pressure relief valve, sandwich plate,type Z2DBD6			RE 25410/12.2004
	Size 6	up to 31.5 MPa	up to 35 L/min	

Features:

- Sandwich plate valve
- With one or two pressure relief cartridges



Functional, section,symbol

Pressure relief valve type Z2DBD6 is pilot operated and is of sandwich plate design.

They are used to limit the pressure within a hydraulic system.

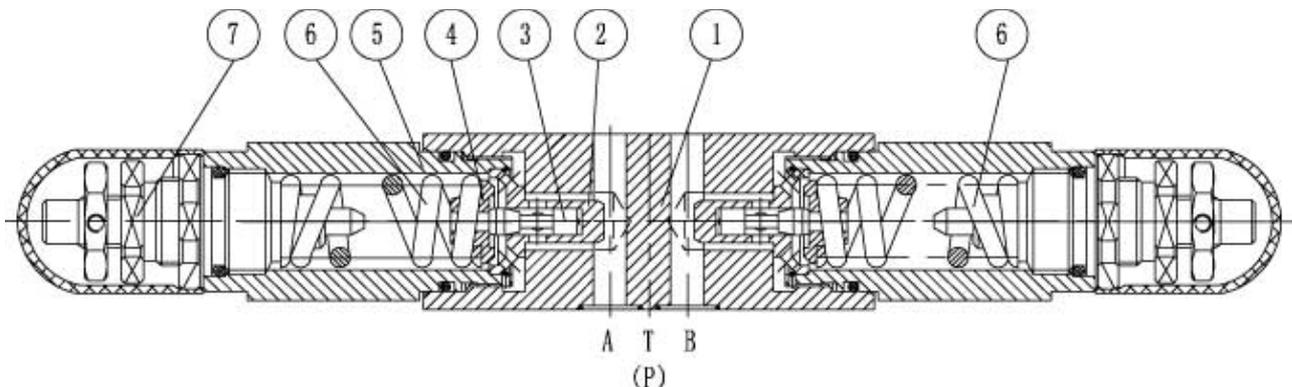
They basically consist of the housing (1), together with two pressure relief valve cartridges.

The system pressure is set by means of adjustment element (7).

At rest, the valve is closed. Pressure in port A (or B) acts on the spool (3).

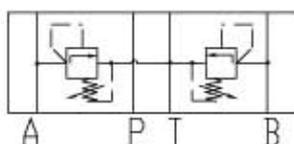
If the pressure in port A rises above the pressure set on spring (6), the spool (3) opens, fluid can now flows from a channel into port T.

Similarly,the mode is apply to port B.



Type Z2DBD6

Symbol



Ordering code

Z 2 DBD 6 VC- -10 B / / *

Sandwich plate = Z

Further details in clear text

With 2 pressure relief valve cartridges = 2

No code = mineral oils
V = phosphate ester

Pressure relief valve, direct operated = DBD

Nominal size 6 = 6

100 = Pressure adjustable up to 10 MPa
200 = Pressure adjustable up to 20 MPa
315 = Pressure adjustable up to 31.5 MPa

Relief function form:
A - T and B - T = VC

B = Technology of Beijing Huade Hydraulic

Adjustment element
Rotary knob =1
Sleeve with hexagon and protective cap =2
Lockable rotary knob with scale =3

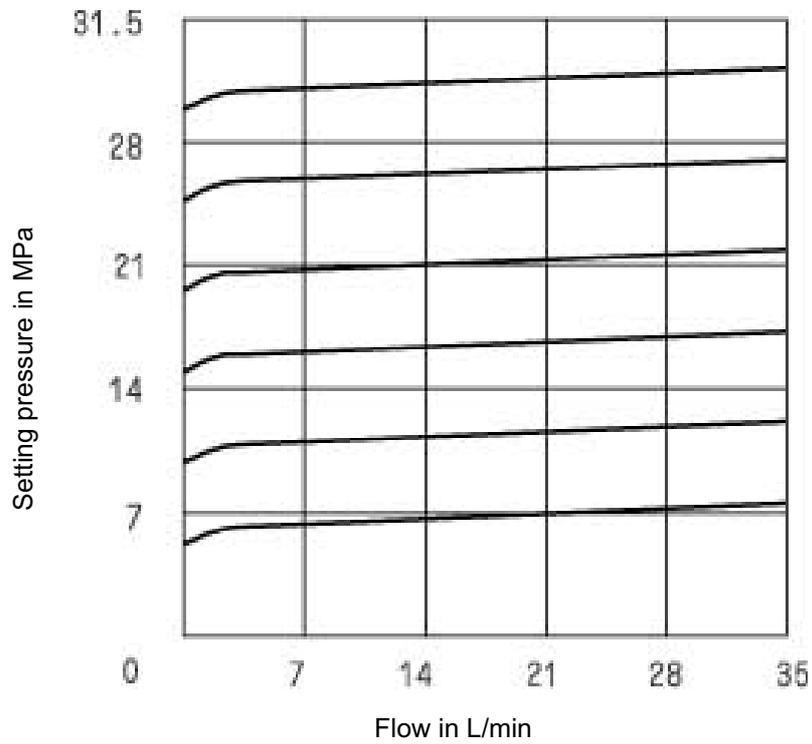
Series 10 to 19 = 10
(10 to 19 = unchanged installation and connection dimensions)

Technical data (for applications outside these parameters, please consult us!)

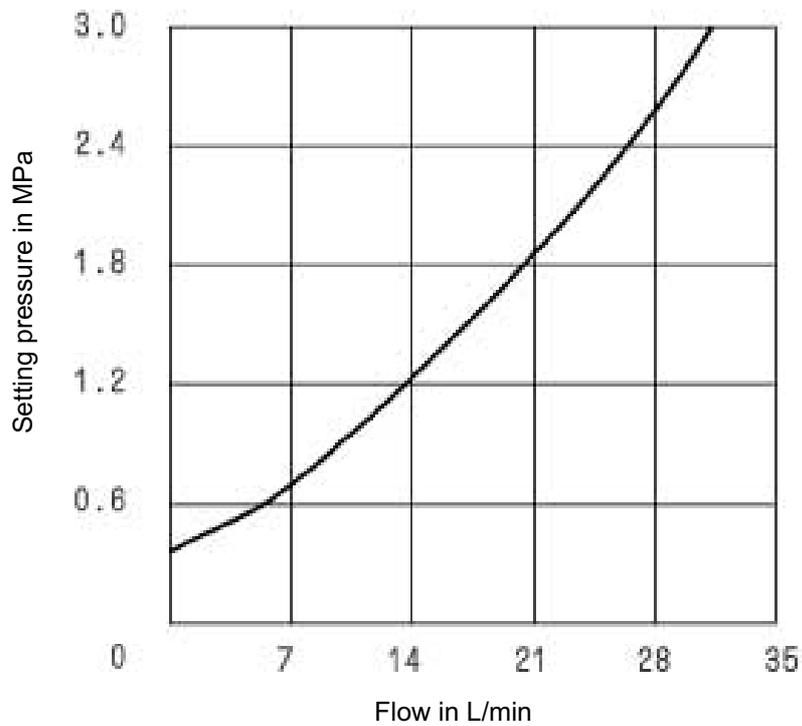
Operating pressure, max.	(MPa)	up to 31.5
Viscosity range	(mm ² /s)	10-800
Flow, max.	(L/min)	up to 35
Pressure fluid		Mineral oil (for NBR seal) or phosphate ester (for FPM seal)
Pressure fluid temperature range	(°C)	-30 to +80
Degree of fluid contamination		Maximum permissible degree of contamination of the fluid is to NAS 1638, class 9. $\beta_{10} \geq 75$

Characteristic curves (measured at $v = 41 \text{ mm}^2/\text{s}$ and $t = 50^\circ\text{C}$)

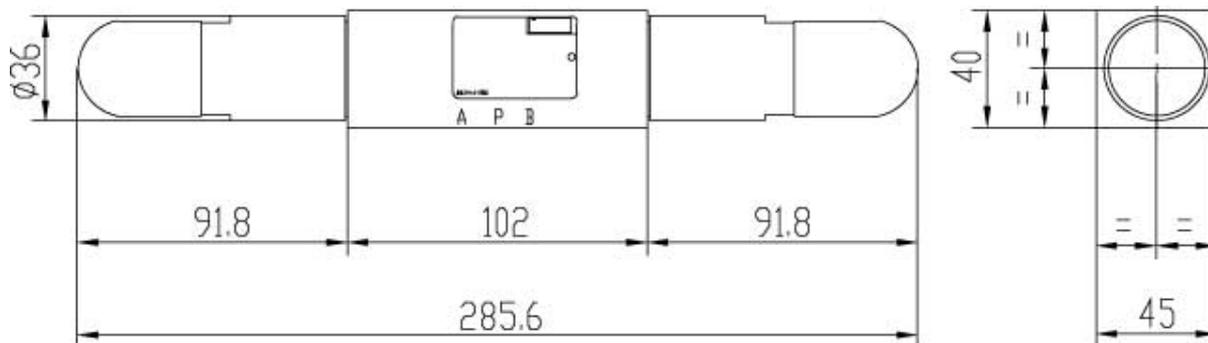
Pressure-flow characteristic curve



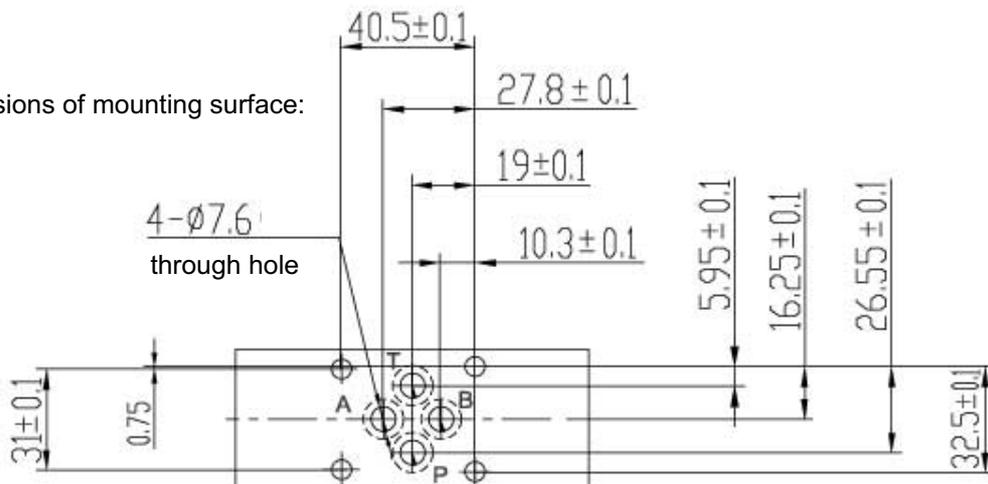
Min.pressure-flow characteristic curve



Type Z2DBD6VC-2-10B/..

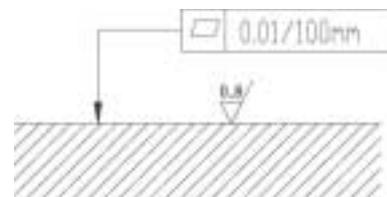


Dimensions of mounting surface:



Size	O-rings for port A, B, P, T
6	9.25X1.78

Required surface finish of mating piece



Notice

1. The fluid must be filtered. Minimum filter fineness is 20 μm .
2. The tank must be sealed up and an air breather/filter must be installed on air suction/entrance.
3. Subplate are not supplied, if required, please ordering separately.
4. Valve fixing bolts/screws must be high tensile (class 10.9). Please select and consult manufacturer according to the parameter listed in the datasheet.
5. Roughness of surface mating with the valve is required to $\sqrt{0.8}$.
6. Surface straightness of mating piece is required to 0.01/100mm.

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