BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.	Pressure reducing valve, type ZDR6DP0...40B/40YM			RE 26700/12.2004
	Size 6	up to 4.0 MPa	up to 7L/min	

Features:

- Sandwich plate design



Functional description,section

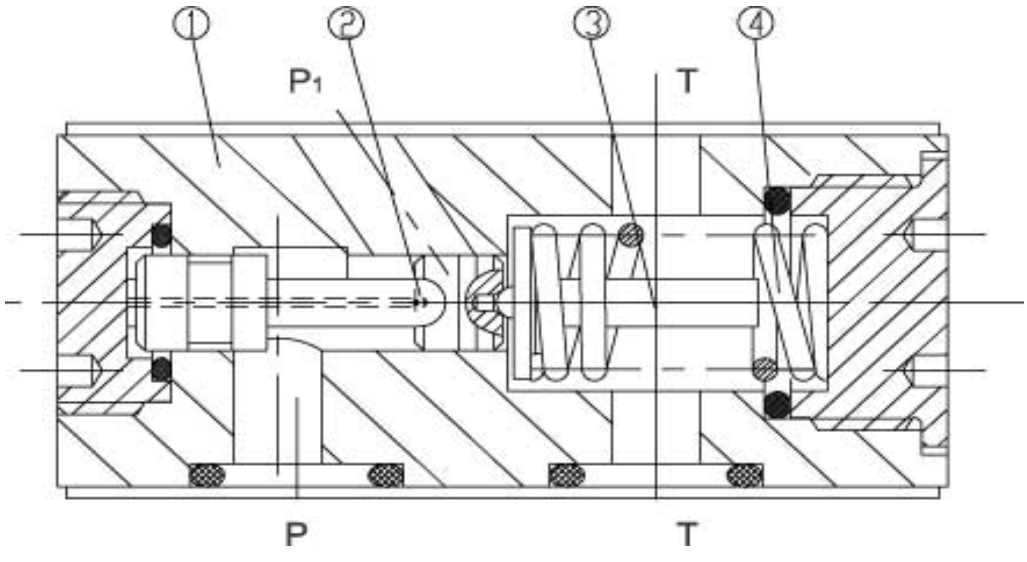
Pressure reducing valves type ZDR 6 DP0...40B/40YM are pressure reducing valves of sandwich plate design. It is used to reduce the system pressure.

The pressure reducing basically valve consists of the housing (1), the control spool (2), a compression spring seating (3) and a compression spring (4).

At rest, the valve is normally open, and fluid can flow unhindered from port P to port P1. The pressure in port P1 is at the same time present at the spool area opposite to the compression spring (4). When the pressure in port P1 exceeds the pressure level set at the compression spring (4) the control spool (2) moves into the control position against the compression spring (4) and holds the set pressure in port P1 constant.

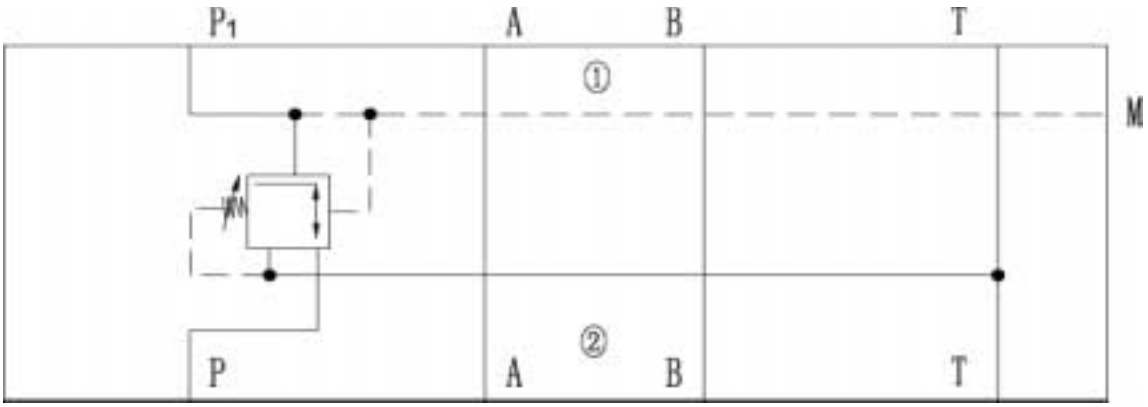
If the pressure in port P1 rises still further due to external forces, the control spool (2) is moved still further towards the compression spring (4).

Sufficient fluid then flows to tank to prevent any further rise in pressure. The spring chamber is always drained to tank externally via drilling to port T (Y).



Symbols （① =valve side， ② =subplate side）

ZDR6DPO...-40B/...YM...



Ordering details

Z	DR	6	D	P	O	-40	B/	40	Y	M		*

Sandwich plate design = Z

Pressure redcing valve = DR

Nominal Size 6 = 6

Direct operated = D

Pressure reduction in port P1 = P

Outlet pressure fixed = O

Series 40 to 49 = 40
(40 to 49 = unchanged installation and connection dimensions)

Technology of Beijing Huade Hydraulic = B

Further details in clear text

No code. = mineral oils
V = phosphate ester

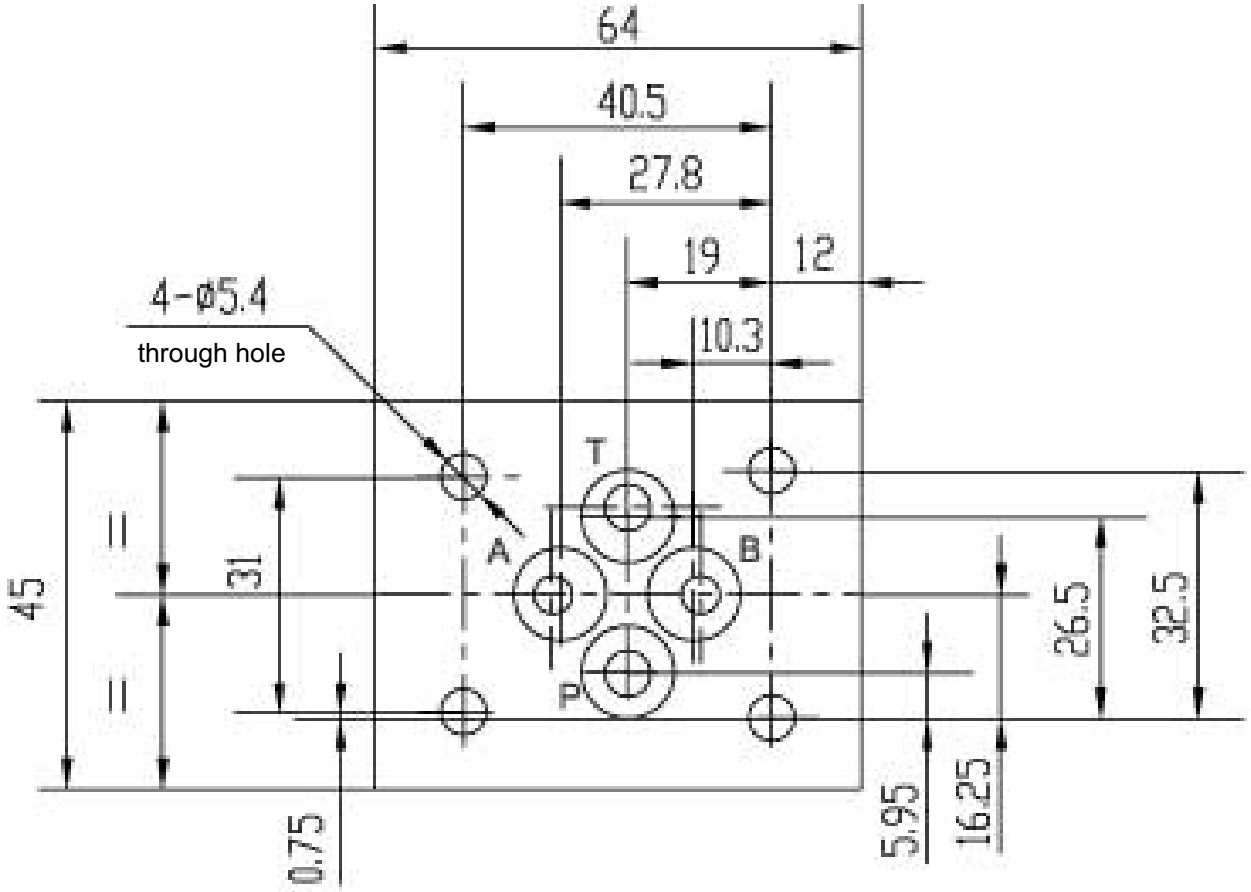
M = without check valve

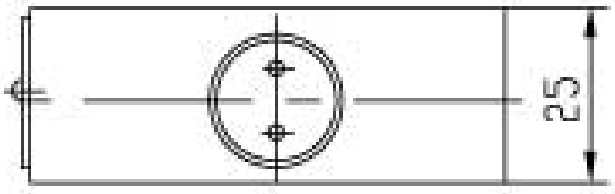
Y = Pilot oil feed internal,drain external

40 = max. secondary pressure 4 MPa

Technical data (For applications outside these paramters,plese consult us!)

Pressure fluid		Mineral oil (for NBR seal)or phosphate ester(for FPM seal)
Pressure fluid - temperature range	（℃）	-30 to +80
Viscosity range	（mm^2/s）	10 to 800
Degree of fluid contamination		recommend a filter with a minimum retention rate of $\beta_{10} \geqslant 75$
Max. operating pressure Port P	(MPa)	up to 30
Secondary pressure(output)	（MPa）	up to 4
Back pressure Ports T (Y)	（MPa）	up to 16
Max. flow	（L/min）	up to 7


64
40.5
27.8
19
12
10.3
4-ø5.4
through hole
T
A
B
P
45
31
26.5
32.5
0.75
5.95
16.25


25

NOTICE

1. **The fluid must be filtered. Minimum filter fineness is 20 μm.**
2. **The tank must be sealing up and an air filter must be installed on air entrance.**
3. **Products without subplate when leaving factory, if need them, please ording specially.**
4. **Vavle fixing screws must be high intensity level (class 10.9). Please select and use them according to the parameter listed in the sample book.**
5. **Roughness of surface linked with the valve is required to** 

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6. **Surface finish of mating piece is required to 0.01/100mm.**

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