

Direct Operated Pressure Sequence Valve

Model: DZ6DP...5X



- ◆ Size 6
- ◆ Maximum working pressure 315 bar
- ◆ Maximum working flow 60 L/min

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Features

- Subplate mounting
- 5 pressure ranges
- 2 adjusting elements
 - Rotary knob
 - Adjusting screw with protective cap
- Check valve, optional

Function description, sectional drawing

The DZ6DP valve is direct operated sequence valve, it is used for sequence switching of the secondary circuit pressure. The sequence pressure is setting via the adjusting element (4).

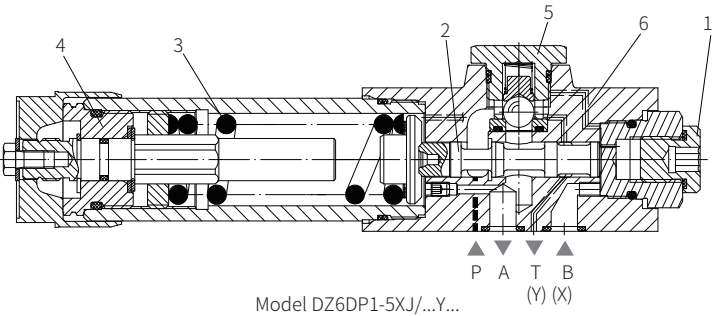
The spring (3) holds control spool (2) in initial position, the valve is closed. The pressure in port P acts on the piston area of the control spool (2) via the control line (6) at the opposite of the spring (3). When the pressure in port P reaches the setting value of spring (3), the control spool (2) moves to the left to connect port P and port A, the pressure in port P not fall.

The control signal is obtained from port P internally via the control line (6) or externally via port B (X).

Depending on the application of the valve, the leakage oil can return externally through port T (Y) or internally through port A.

Notice:

For internal drainage, the set opening pressure increases the pressure in port A. The fluid can flow freely from port A to port P via installing check valve (5) . Pressure gauge connection(1) is used to monitor the set sequential pressure.



Models and specifications

DZ6DP-5XJ

pressure sequence valve

size 6 =6

direct operated

subplate mounting =P

adjusting element

rotary knob =1

adjusting screw with protective cap =2

50 to 59 series (50 to 59 series: installation and connection size unchanged) =5X

more information in text

No code= V=

sealing material

NBR seals

FKM seals

(consult for other seals)

no code= M=

with check valve

without check valve

no code=

pilot oil supply and drain internal

X= pilot oil supply external, drain internal

Y= pilot oil supply internal, drain external

XY= pilot oil supply and drain external

25=

set pressure up to 25 bar

75=

set pressure up to 75 bar

150=

set pressure up to 150 bar

210=

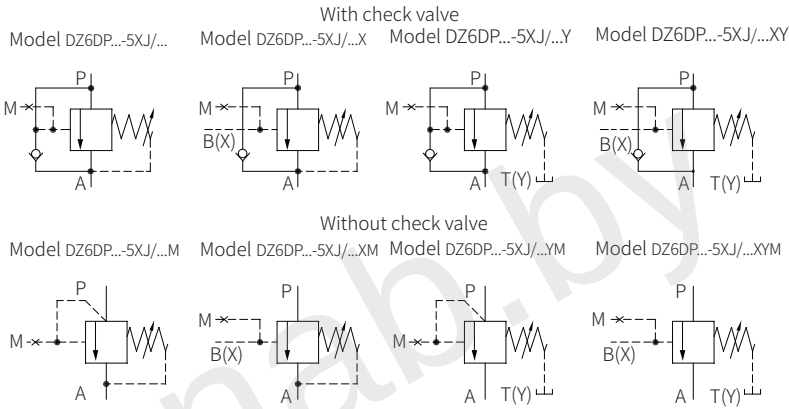
set pressure up to 210 bar

315=

set pressure up to 315 bar

(315 bar only for type without check valve)

Functional symbols



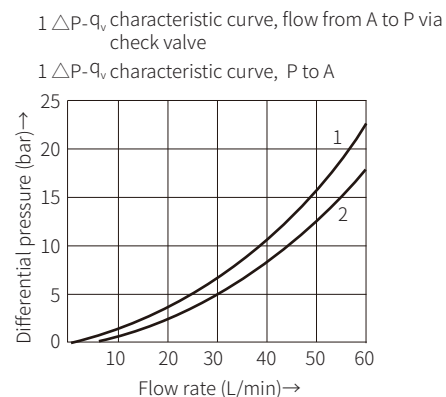
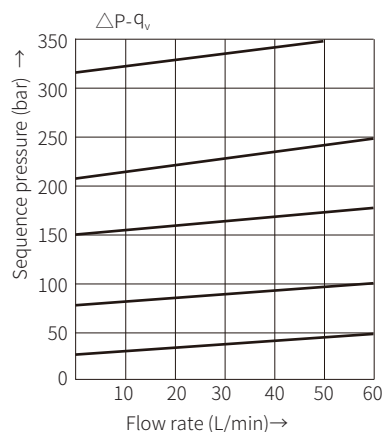
Technical parameters

Overview		
Installation position		Optional
Environment temperature range		-30 to +50 (NBR seal) -20 to +50 (FKM seal)
Weight	kg	1.2KG
Hydraulic		
Maximum working pressure	Port P, A, B (X) bar	315
Maximum secondary pressure	Port T(Y) bar	25; 75; 150; 210; 315
Maximum flow	L/min	60
Medium		Mineral oil (HL, HLP) ¹⁾ in accordance with DIN 51524; Fast living organisms degraded oil according to VDMA 24568; HETG (Rapeseed oil) ¹⁾ ; HEPG(Polyethyleneglycol) ²⁾ ; HEES (Synthetic Fats) ²⁾
Hydraulic oil temperature range	°C	-30 to +80 (NBR seal) -20 to +80 (FKM seal)
Viscosity range	mm²/s	10 to 800
Cleanliness of oil ³⁾		The maximum allowable pollution level of oil is ISO4406 Class 20/18/15

- 1) For NBR seal and FKM seal.
- 2) Only for FKM seal.
- 3) The oil must meet the cleanliness degree requested by the components in the hydraulic system.
- Effective oil filtration can prevent failure and increase the service life of the components.

Characteristic curve

(Measured when using HLP46, $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)

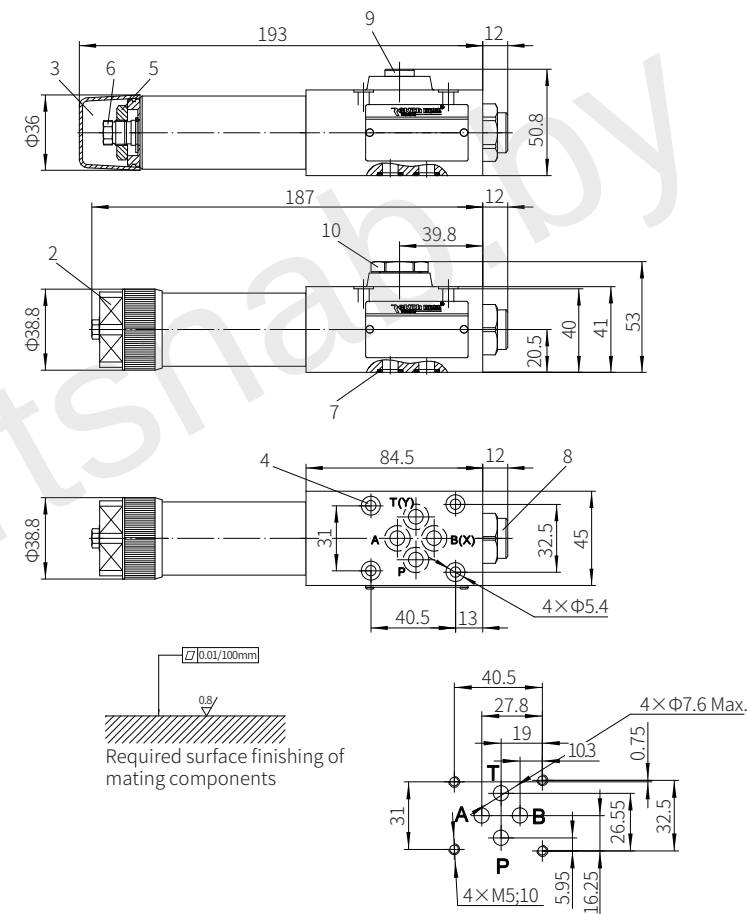


The characteristic curves are valid for an outlet pressure = 0 over the entire flow range!

Component size

Size unit: mm

Model DZ6DP...-5XJ/...



- 1 Name plate
- 2 Adjustment form "1"
- 3 Adjustment form "2"
- 4 Valve fixing screw hole
- 5 Locknut S=24
- 6 Internal hexagon adjusting screw S=10
- 7 O ring 9.25x1.78 (for oil port P, A, B, T)
- 8 Pressure gauge connection: G1/4 or M14x1.5; 12 deep
- 9 Without check valve
- 10 With check valve

Valve fixing screw
M5-10.9 grade GB/T70.1-2000
Tightening torque $M_A=7.8\text{Nm}$
It must be ordered separately
if connection subplate is needed.
Subplate model:
G341/01 (G1/4"); G341/02 (M14x1.5)
G342/01 (G3/8"); G342/02 (M18x1.5)
G502/01 (G1/2"); G502/02 (M22x1.5)