02

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Direct Operated Pressure Sequence Valve

Model: DZ5DP...1XJ

- Size 5
- Maximum working pressure 315 bar
- Maximum working flow 30 L/min

Contents

Features

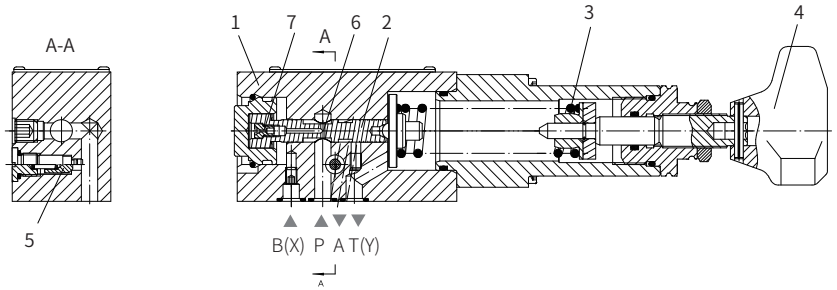
- Direct operated sequence valve
- 5 pressure ratings
- Subplate mounting
- Panel mounting
- 3 adjusting elements:

-Rotary knob
-Internal hexagon adjusting screw with protective cap
-Lockable rotary knob with scale

- Check valve, optional

Function description, sectional drawing

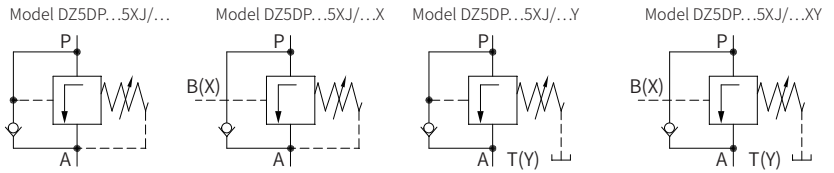
The DZ5DP pressure control valve is a direct operated sequence valve, it is used to set the pressure to supply oil to the secondary system.
The valve is composed of valve body (1), control spool (2), spring (3), pressure setting element (4) and optional check valve (5) as required, the pressure is setting via the pressure setting element (4).
The spring (3) holds the control spool (2) in the initial position. The pressure oil in port P acts to the spool area opposite to the spring (3) via the hole (6) and the throttle hole (7). When the pressure in port P reaches the setting value, the spool moves against the spring force so that the port P and the port A are connected. At that time, the oil flows into the system connected to port A, but the pressure in port P does not fall, and the control oil can also supply external via port X.
Depending on the application of the valve, the pilot oil can return externally via port Y(T) or internally. The check valve (5) is installed as required to allow the fluid flow back freely from port A to port P.



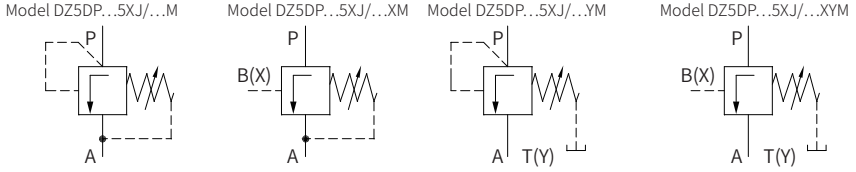
Model DZ5DP-1-1XJ/

Functional symbols

With check valve



Without check valve



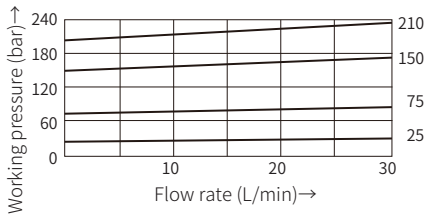
Models and specifications

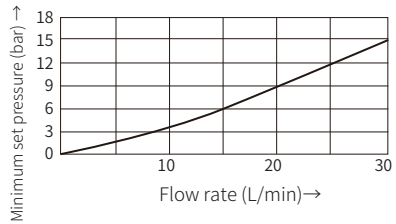
	DZ	5	D	P		-1X	J	/					*

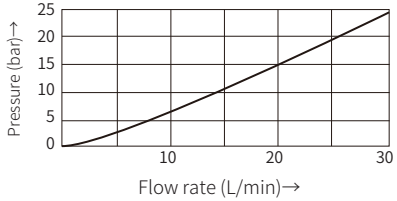
- subplate mounting: =no code; panel mounting: =F
- size 5: =5
- direct operated
- subplate mounting: =P
- adjusting element: rotary knob =1; internal adjusting screw with protective cap =2; lockable rotary knob with scale =3
- 10 to 90 series =1X (10 to 19 series: installation and connection size unchanged)
- Rekith =J
- more information in text
- sealing material: No code= NBR seals; V= FKM seals (consult for other seals)
- no code= with check valve; M= 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)

Characteristic curve

(Measured when using HLP46, ϑ_{oil}=40°C ± 5°C)







Technical parameters

Inlet pressure port P, B(X)	bar	up to 210, without check valve up to 315
Outlet pressure (port A)	bar	to 315
Backpressure port T(Y)	bar	to 60
Maximum flow	L/min	to 30
Medium		Mineral hydraulic oil or phosphate hydraulic oil
Viscosity range	mm^2/s	10 to 800
Working medium temperature range °C		–30 to +80 (NBR seal) ; –20 to +80 (FKM seal)
Cleanliness of oil		The maximum allowable pollution level of oil is ISO4406 Class 20/18/15

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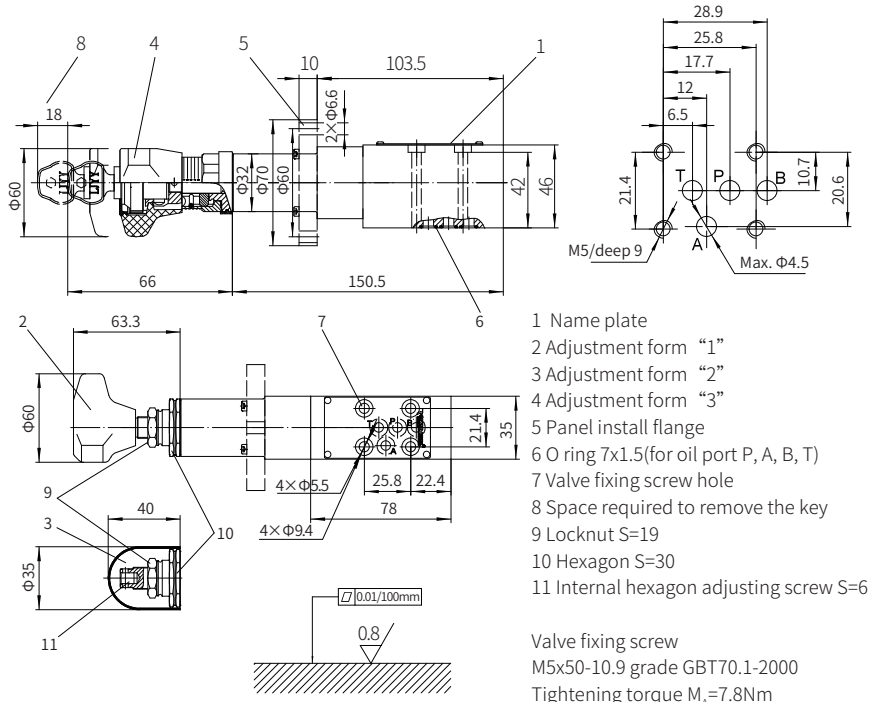
Component size

Size unit: mm

Model DZ5DP...1XJ



1 Name plate
2 Adjustment form "1"
3 Adjustment form "2"
4 Adjustment form "3"
5 Panel install flange
6 O ring 7x1.5(for oil port P, A, B, T)
7 Valve fixing screw hole
8 Space required to remove the key
9 Locknut S=19
10 Hexagon S=30
11 Internal hexagon adjusting screw S=6

Valve fixing screw
M5x50-10.9 grade GBT70.1-2000
Tightening torque M_A=7.8Nm
It must be ordered separately
if connection subplate is needed.
Subplate model:
G115/01(G1/4); G115/02(M14x1.5)

Required surface finishing of mating components

Direct Operated Pressure Sequence Valve

Model: DZ6DP...5XJ

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

Contents

Features

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