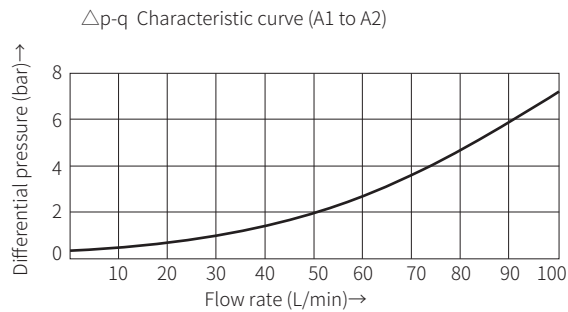


Characteristic curve

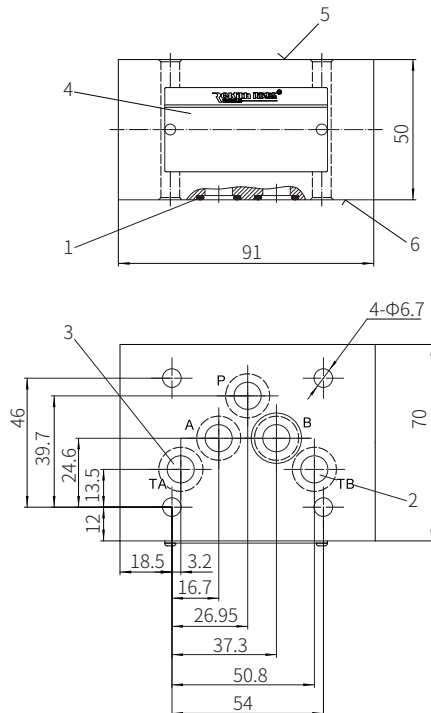
(Measured when using HLP46, $\nu_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)



Component size

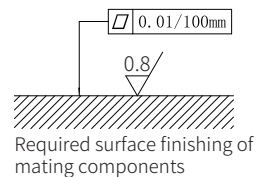
Size unit: mm

Model Z1S10...-3XJ/...



- 1 10 ring 12x2 (for oil port A, B, P, TA, TB)
- 2 This port is blocked for "F" and "T" type valves
- 3 In "F" and "T" type valves, the check valve is installed in this channel
- 4 Name plate
- 5 Valve side
- 6 Subplate side

Valve fixing screw (need to be ordered separately)
M6-10.9 grade GB/T70.1-2000
Tightening torque $M_A=13.7\text{Nm}$



Modular Hydraulic Control Check Valve

Model: Z2S4...6XJ



- ◆ Size 4
- ◆ Maximum working pressure 320 bar
- ◆ Maximum working flow 20 L/min

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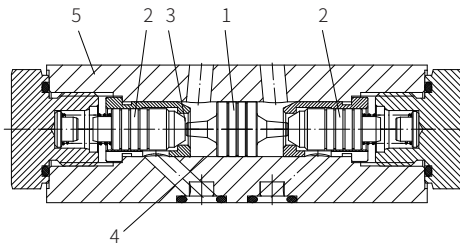
Features

- For vertical stacking installation
- One or two working oil ports blocked for leakage-free as required.

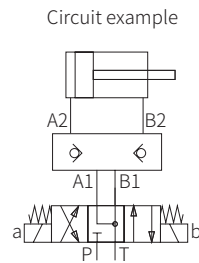
Function description, sectional drawing

The Z2S type is a superimposed structure hydraulically control check valve. This type of valve can keep one or two working oil ports leakage-free even if it works for a long time.

There is a free flow in the direction A1 to A2 and B1 to B2 but closed in the opposite direction. When the oil flows from A1 to A2 or B1 to B2, the piston (1) works, the control spool (1) is moved to the right or left and pushes the valve spool (2) away from its seat. In order to ensure the valve spool (2) to be closed safely, the oil must flow from B2 to B1 or A2 to A1. The working oil port of the directional valve must be connected to the oil tank in the neutral position (see circuit example).



Model Z2S4...6XJ/



Circuit example

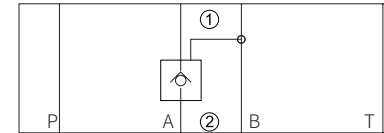
Models and specifications

| | | | | | | |
|---|-----|--|--|-----|----|--|
| Z2S | 4 | | | 6X | J | * |
| modular hydraulic control check valve | =4 | | | | | more information in text |
| size 4 | | | | | | sealing material |
| leakage-free blocking in oil port A and B | = - | | | | | No code= NBR seals |
| oil port A | =A | | | | | V= FKM seals |
| oil port B | =B | | | | | (consult for other seals) |
| cracking pressure 1 bar | = 1 | | | | J= | Rekith |
| | | | | 6X= | | 60 to 69 series |
| | | | | | | (60 to 69 series installation and connection size unchanged) |

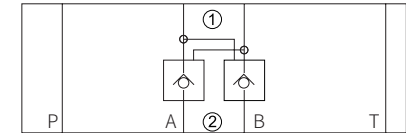
Functional symbols

(①= Valve side, ②= Subplate side)

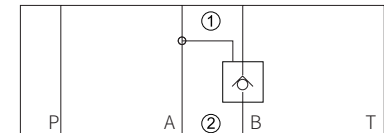
Model Z2S4A...



Model Z2S4...



Model Z2S4B...



Technical Parameters

| | | |
|--|--------------------|---|
| Weight | kg | about 0.7 |
| Installation position | | Optional |
| Environment temperature range | °C | -30 to +80 (NBR seal) -20 to +80 (FKM seal) |
| Maximum working pressure | bar | 320 |
| Cracking pressure in free flow direction | bar | 1 |
| Maximum flow | L/min | 20 |
| Flow direction | | See functional symbols |
| Oil fluid | | 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⁾ |
| Oil temperature range | °C | -30 to +80 (NBR seal) -20 to +80 (FKM seal) |
| Viscosity range | mm ² /s | 2.8 to 500 |
| Cleanliness of oil | | The maximum allowable pollution level of oil is ISO4406 Class 20 / 18 / 15 |
| Area ratio (hydraulic piston/valve seat) | | 3:1 |

1) For NBR seal and FKM seal.

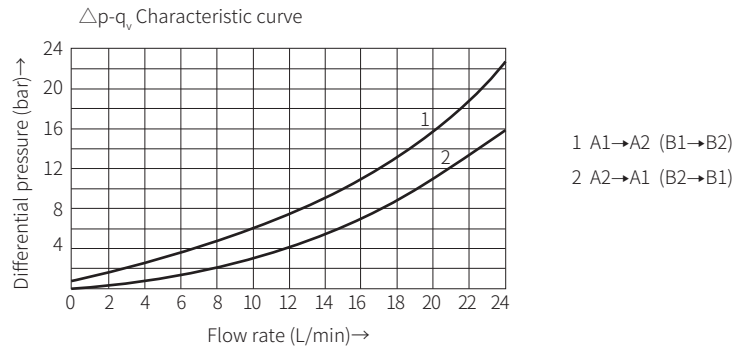
2) Only for FKM seal.

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, $t_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)

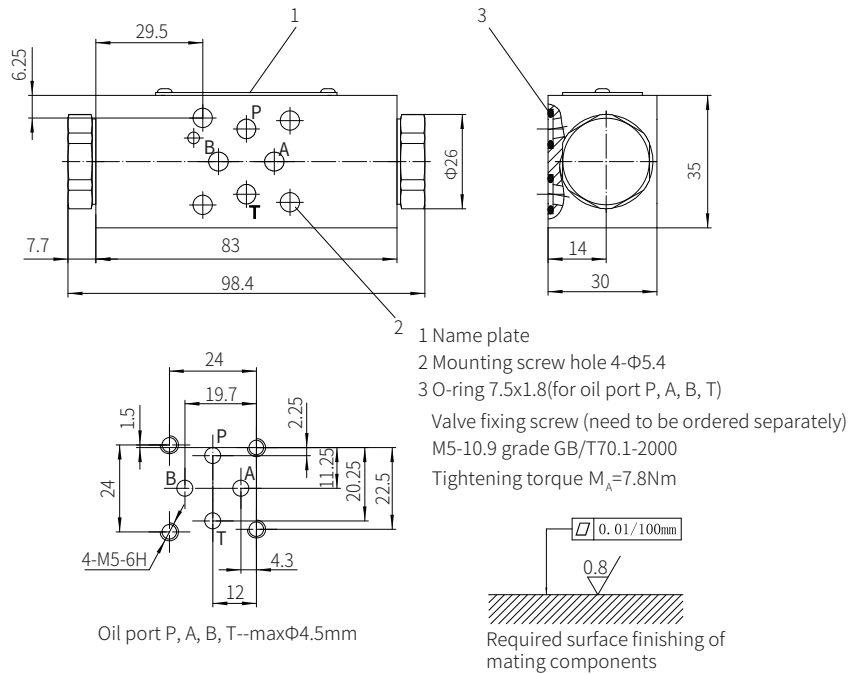


01

Component size

Size unit: mm

Model Z2S4...6XJ/...



0030

Modular Hydraulic Control Check Valve

Model: Z2S6...6XJ



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

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Features

- For vertical stacking installation
- One or two working oil ports blocked for leakage-free as required.

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