

Modular Check Valve

Model: Z1S6...3XJ



- ◆ Size 6
- ◆ Maximum working pressure 315 bar
- ◆ Maximum working flow 40 L/min

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Features

- Modular type valve
- For vertical stacking installation

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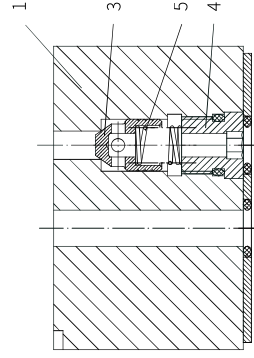
Functional description, sectional drawing

The Z1S6 type valve is a direct operated check valve with a modular structure. This check valve is closed without leakage in one direction and allows free flow in the other direction.

The stroke of the conical spool (3) is limited by the spring seat (4). The spring (5) causes the conical spool (3) to close. When there is no fluid flows through the valve, the spring (5) holds the conical spool (3) in the closed position.

Model Z1S6...3X/V (metal-sealed)

This valve has a metallic seal between the conical spool (3) and the valve body (1). Therefore, it is particularly suitable for condition of working pressure higher than 100bar and the flow rate greater than 4m³/s.



Model Z1S6D...3XJ/V

Models and specifications

Z1S	6	-	3X	J	*
modular check valve		No code=			
size 6		V=			
leakage-free blocking in		J=			
oil port A (A1→A2)		3X=			
oil port B (B1→B2)		(30 to 39 series installation and connection size unchanged)			
oil port A (A2→A1)		=A			
oil port B (B2→B1)		=B			
ports A and B		=C			
(A2→A1) and (B2→B1)		=D			
ports P and T		=E			
(P1→P2) and (T2→T1)		=F			
oil port P (P1→P2)		=P			
oil port T (T2→T1)		=T			
cracking pressure		=1			
0.5bar		=2			
3.0bar		=3			
5.0bar					

more information in text

sealing material
NBR seals
FKM seals
(consult for other seals)

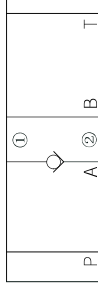
Rekith
30 to 39 series

(30 to 39 series installation and connection size unchanged)

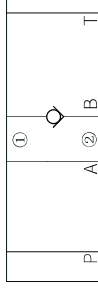
Functional symbols

①= Valve side, ②= Subplate side)

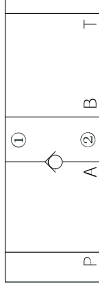
Model Z1S6A



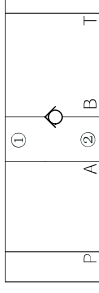
Model Z1S6B



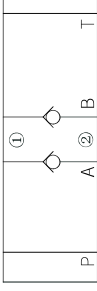
Model Z1S6C



Model Z1S6D



Model Z1S6E



Model Z1S6F



Model Z1S6P



Model Z1S6T



Technical Parameters

Overview	
Weight	kg 0.8
Installation position	Optional
Environment temperature range	°C -20 to +80
Hydraulic	
Maximum working pressure	bar 315
Cracking pressure — Metal-sealed	0.5; 3; 5
Maximum flow	L/min 40
Flow rate — Metal-sealed	m/s >4
Pressure medium	Mineral oil (HL, HLP) ¹⁾ in accordance with DIN 51524; Fast living organisms degraded oil according to VDMA 24568; HETG (Rapeseed oil) ²⁾ ; HEPG(Polyethyleneglycol) ²⁾ ; HEES (Synthetic Fats) ²⁾
Oil temperature range	°C -20 to +80
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

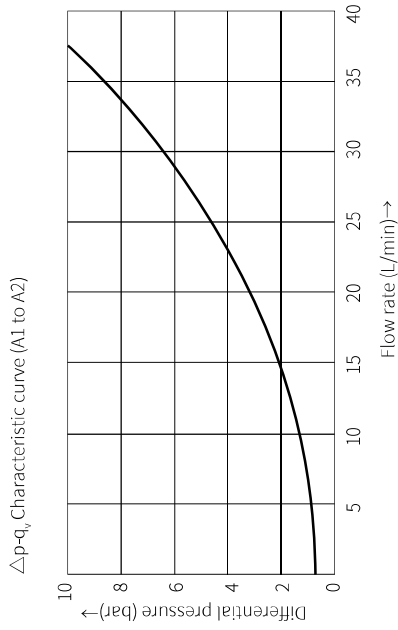
1) For NBR seal and FKM seal.

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



01

Modular Check Valve

Model: Z1S10...3XJ

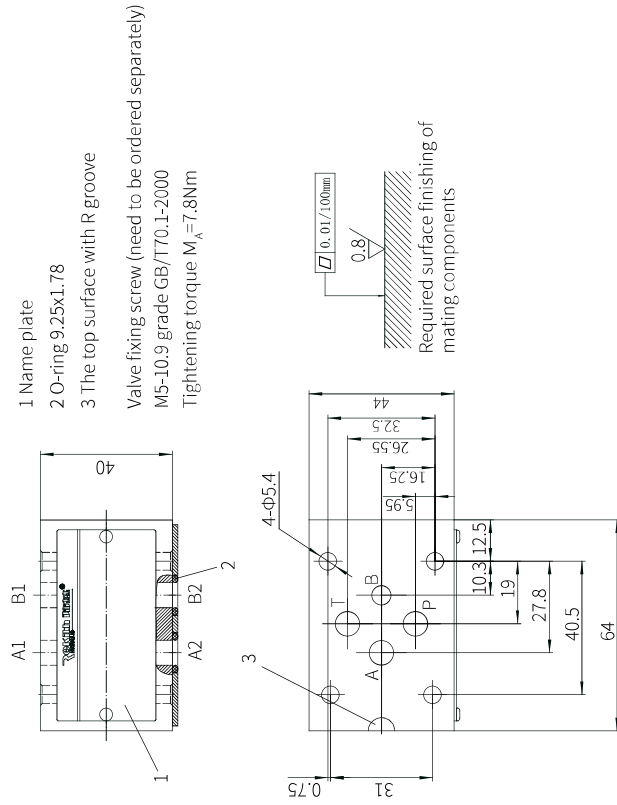


- ◆ Size 10
- ◆ Maximum working pressure 315 bar
- ◆ Maximum working flow 100 L/min

Component size

Size unit: mm

Model Z1S6...3XJ/...



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Features

- Modular type valve
- For vertical stacking installation

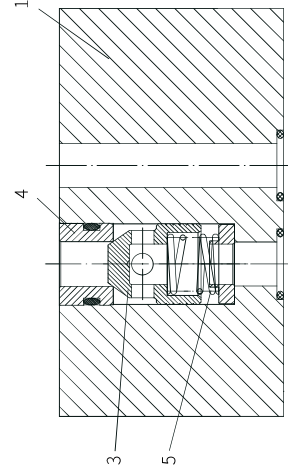
Functional description, sectional drawing

The Z1S10 type valve is a direct operated check valve with a modular structure. This check valve is closed without leakage in one direction and allows free flow in the other direction.

The stroke of the conical spool (3) is limited by the spring seat (4). The spring (5) causes the conical spool (3) to close. When there is no fluid flows through the valve, the spring (5) holds the conical spool (3) in the closed position.

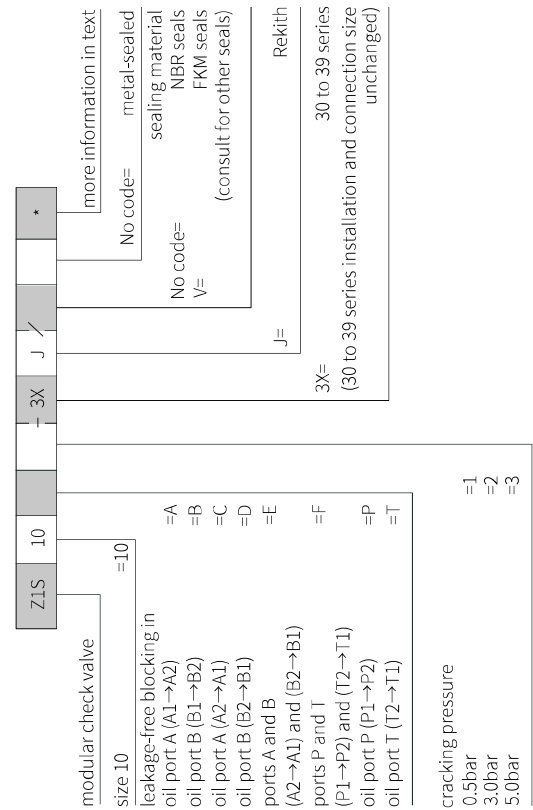
Model Z1S10...3XJ/V (metal-sealed)

This valve has a metallic seal between the conical spool (3) and the valve body (1). Therefore, it is particularly suitable for condition of working pressure higher than 100bar and the flow rate greater than 4m³/s.



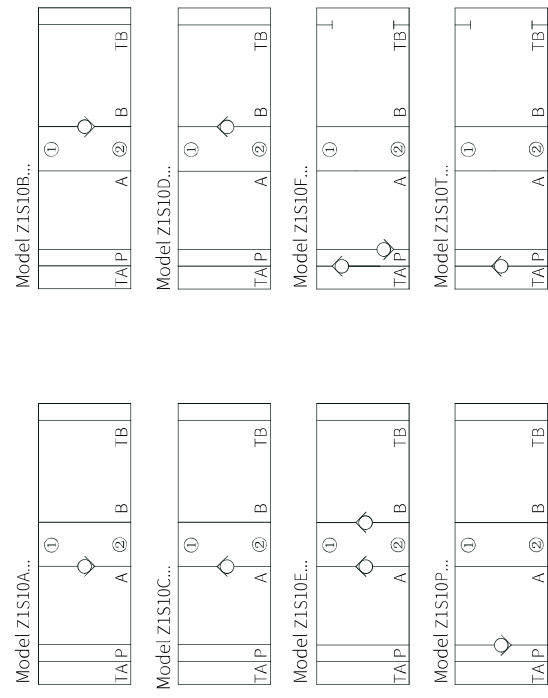
Model Z1S10...3XJ/V

Models and specifications



Functional symbols

(①= Valve side, ②= Subplate side)



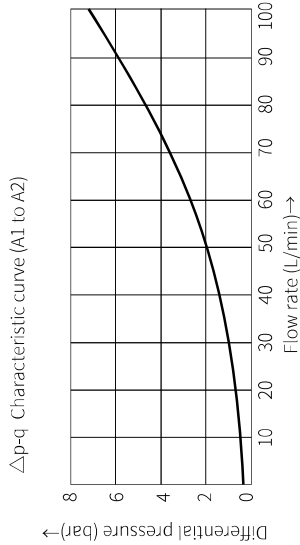
Technical Parameters

Overview			
Weight	kg	0.8	
Installation position		Optional	
Environment temperature range	°C	-20 to +80	
Hydraulic			
Maximum working pressure	bar	315	
Cracking pressure	— Metal-sealed	0.5; 3; 5	
Maximum flow	L/min	40	
Flow rate	— Metal-sealed	>4	
Pressure 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(Polyethyleneglyco) ²⁾ ; HEES (Synthetic Fats) ²⁾	
Oil temperature range	°C	-20 to +80	
Viscosity range	mm²/s	2.8 to 500	
Cleanliness of oil		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, $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$)



01

Modular Hydraulic Control Check Valve

Model: Z2S4...6XJ



Component size

Size unit: mm

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

