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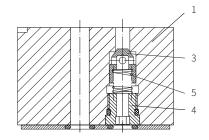
### Functional description, sectional drawing

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.

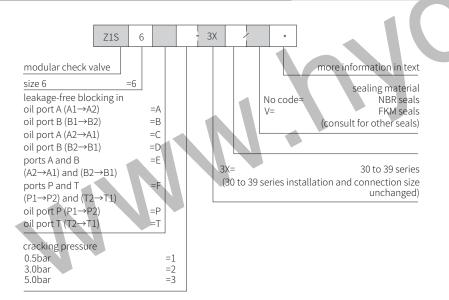
#### Model Z1S6...3X/V (metal-sealed)

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



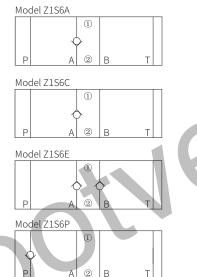


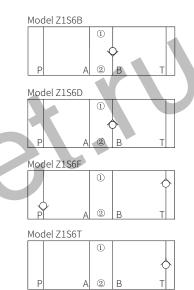
#### Models and specifications



## 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 m/s	>4
Pressure medium	Mineral oil (HL, HLP) <sup>1)</sup> in accordance with DIN 51524; Fast living organisms degraded oil according to VDMA 24568; HETG (Rapeseed oil) <sup>10</sup> ; HEPG(Polyethyleneglycol) <sup>21</sup> ; HEES (Synthetic Fats) <sup>20</sup>
Oil temperature range °C	-20 to +80
Viscosity range mm <sup>2</sup> /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.

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#### Characteristic curve

(Measured when using HLP46,  $\vartheta_{\rm oil}$ =40°C ± 5°C)

 $\triangle p-q_{u}$  Characteristic curve (A1 to A2)

10 Differential pressure (bar)→ 8 6 4 2 0 5 10 15 20 25 30 35 40 Flow rate (L/min)→ Component size Size unit: mm Model Z1S6...-3XJ/... A1 Β1 1 Name plate 2 O-ring 9.25x1.78 REAL COLORAD 3 The top surface with R groove 40 Valve fixing screw (need to be ordered separately) M5-10.9 grade GB/T70.1-2000 Tightening torque M\_=7.8Nm A2 Β2 4-Φ5.4 0.75 □ 0.01/100mm 0.8 6.55 37 5 44 31 5.95 16.25 Required surface finishing of mating components 10.3 12.5 19 27.8 40.5 64

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