1.6

Check valve

Type Z1S...30

Sizes 6 to 22
Up to 315bar
Up to 400 L/min

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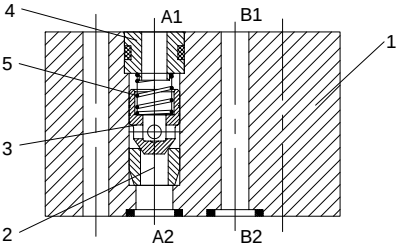
Features

-Sandwich plate valve
for use in vertical sandwich installation
-8 di f erent checking functions, optional
(detail refer to the Ordering code)

Function and symbols

The Z1S ...valve is a direct operated check valve in sandwich plate design. It mainly consist of the housing (1) and check valve cartridge (2).
It is used for the leak-free closure in one direction and allows free flow in the opposite direction.
The stroke of the poppet (3) is limited by the spring seat (4). The integrated spring (5) holds the poppet (3) in the closed position.



Z1S...A...30

Ordering code

Z1S | | | – 30 / | *

Further details in clear text

Sandwich plate check valve

No code = NBR seals
V = FKM seals

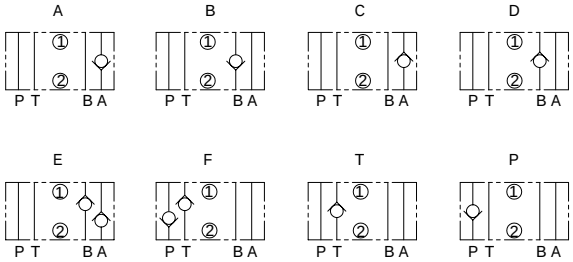
Nominal size 6 = 6
Nominal size 10 = 10
Nominal size 16 = 16
Nominal size 22 = 22

30= 30 series

Closed in port A (A1 to A2) =A
Closed in port B (B1 to B2) =B
Closed in port A (A2 to A1) =C
Closed in port B (B2 to B1) =D
Closed in ports A and B (A2 to A1) and (B2 to B1) =E
Closed in ports P and T (P1 to P2) and (T2 to T1) =F
Closed in port P (P1 to P2) =P
Closed in port T (T2 to T1) =T

1 = Crack pressure 0.5bar
2 = Crack pressure 3bar
3 = Crack pressure 5bar

Symbols (=valve side, = sub-plate side)

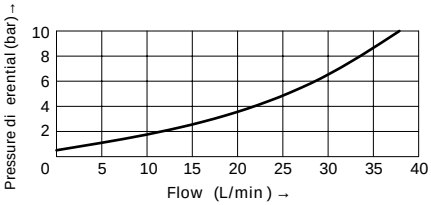


Technical data

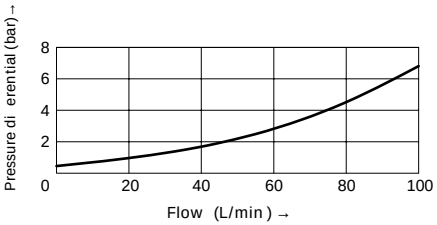
Nominal size		6	10	16	22
Weight	kg	0.8	2.3	8.5	13
Max. f ow -rate	L/min	42	100	200	400
Max. operating pressure	bar	To 315			
Crack pressure	bar	0.5, 3, 5			
Viscosity range	mm^2/s	-2.8 to 500			
Fluid temperature range		-20 to +70			
Fluid		Mineral oil suitable for NBR and FKM seal			
		Phosphate ester for FKM seal			
Degree of contamination		Maximum permissible degree of f uid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406			

Characteristic curves (Measured at ϑ_{oil} =40 ± 5 , using HLP46)

Z1S6

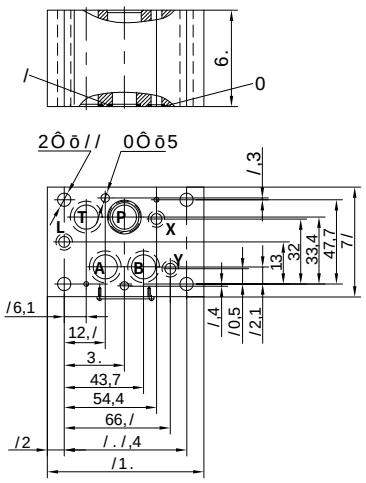


Z1S10

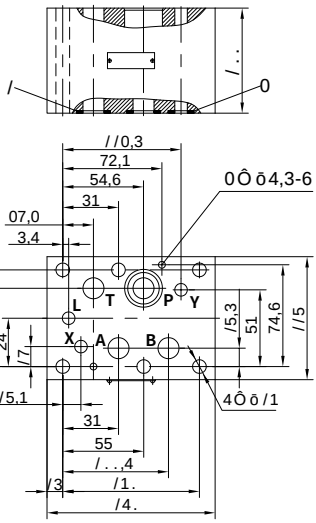


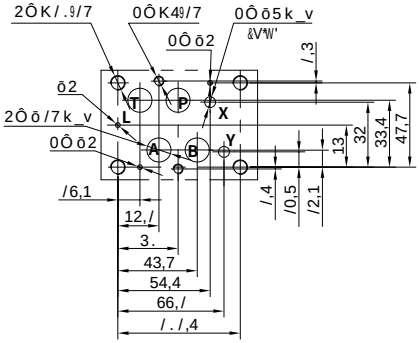
Unit dimensions (Sizes 16 and 22) (Dimensions

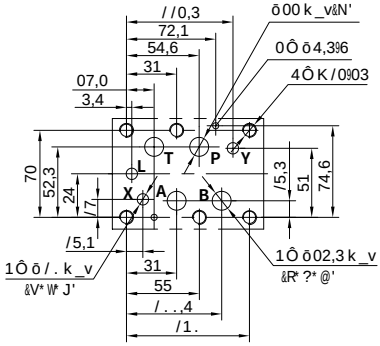
Z1S16

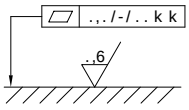


Z1S22









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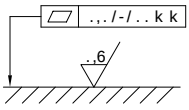
k ms l rg l e qspd_ac



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k ms l rg l e qspd_ac