

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 different 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.



Ordering code

Z	15		<u> </u> 3	0 /		۲			
Sandwich plate check valve Nominal size 6 Nominal size 10 Nominal size 16	= 6 = 10 = 16				No v	code		er details in clear te: NBR sea FKM sea	ls
Nominal size 22 Closed in port A (A1 to A2)	= 22	 =A		30=				30 serie	es
Closed in port B (B1 to B2) Closed in port A (A2 to A1) Closed in port B (B2 to B1)		=B =C =D							_
Closed in port B (B2 to B1) Closed in ports A and B (A2 to A1) and (B2 to B1)		-D =Е	1 = 2 =				(Crack pressure 0.5ba Crack pressure 3ba	ar
Closed in ports P and T (P1 to P2) and (T2 to T1)		=F	3 =					Crack pressure 5ba	ar —
Closed in port P (P1 to P2) Closed in port T (T2 to T1)		=P =T							

Symbols (1 =valve side, 2 = sub-plate side)



Technical data

Nominal size		6	10	16	22		
Weight	kg	0.8	2.3	8.5	13		
Max. flow -rate	L/min	42	100	200	400		
Max. operating pressure	bar	To 315					
Crack pressure	bar	0.5, 3, 5					
Viscosity range	mm²/s	-2.8 to 500					
Fluid temperature range	°C	-20 to +70					
Fluid	Mineral oil suitable for NBR and FKM seal						
Fluid	Phosphate ester for FKM seal						
Degree of contamination	Maximum permissible degree of fluid contamination:						
		Class 9. NAS 1638 or 20/18/15, ISO4406					

Characteristic curves (Measured at $\vartheta_{oil}=40^{\circ}C \pm 5^{\circ}C$, using HLP46)



Unit dimensions (Sizes 6 and 10)

(Dimensions in mm)



1 O-ring 9.25 x 1.78

2 Check valve of Z1S6T and Z1S6F are integrated at the line.



1 O-ring 10.82 x 1.78

2 Port T of Z1S10T and Z1S10F is blocked. 3 Check valves of Z1S10T and Z1S10F are integrated at the line.



It must be ordered separately if connection plate is needed. Type: G341/01(G1/4), G341/02 (M14×1.5) G342/01(G3/8), G342/02 (M18×1.5) G502/01(G1/2), G502/02 (M22×1.5)



It must be ordered separately if connection plate is needed. Type: G66/01(G3/8), G66/02 (M18×1.5) G67/01(G1/2), G67/02 (M22×1.5) G534/01(G3/4), G534/02 (M27×2)

Unit dimensions (Sizes 16 and 22)



1 O-rings 22×2.5 (Ports A, B, P, T) 2 O-rings 10×2 (Ports X, Y , L)



It must be ordered separately if connection plate is needed. Type: G172/01(G3/4), G172/02(M27×2) G174/01(G1), G172/02 (M33×2) (Dimensions in mm)



1 O-rings 27×3 (Ports A, B, P, T) 2 O-rings 19×3 (Ports X, Y, L)



Requirement for mounting surface

It must be ordered separately if connection plate is needed. Type:G153/01(G1), G153/02 (M33×2) G154/01(G11/4), G154/02 (M42×2) G156/01(G11/2), G156/02 (M48×2)