

AH-Z2S16...type Modular Hydraulic Operated Check Valve



AH-Z2S16...50S...type

Size 16
Max. Working Pressure: 315 bar
Max. Flow: 300 L/min

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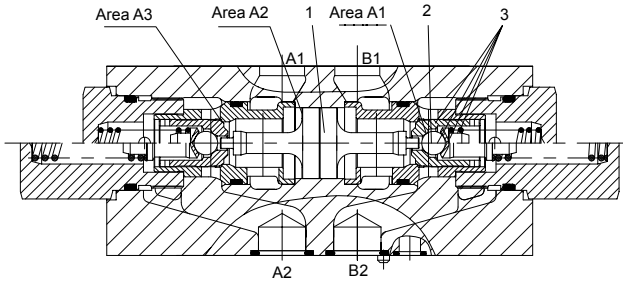
Features

- Porting pattern to DIN 24 340
- Leakage-free closure for one or two ports
- Sandwich plate valve,
for use in vertical stacking assemblies
- 4 cracking pressures, optional

Function and configuration

This type valve is a releasable check valve in sandwich plate design. It is used for the leakage-free closure of one or two service ports, also in case of long periods of time. Free flow occurs from A1 to A2 or B1 to B2. Flow in the opposite direction is blocked.

When fluid flows from A1 to A2, the spool (1) is pressurised and is pushed to the right, thereby opening the ball poppet valve (2) which then opens the check valve (3). Flow in the opposite direction is blocked.

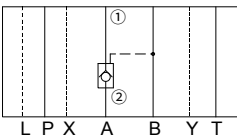


AH-Z2S16..50S/...modular hydraulic check valve

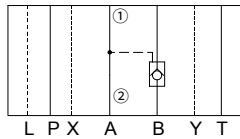
1 Spool 2 Ball poppet valve 3 Check valve

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

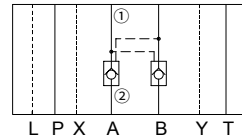
AH-Z2S16A..50S/...



AH-Z2S16B..50S/...



AH-Z2S16..50S/...



Specification

AH	Z2S	16			- 50S /	*
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Modular Hydraulic check valve

Further details in clear text

Size 16 =16

No code = NBR seals
V = FKM seals

Leak-free closure in channels A and B = -
Leak-free closure in channel A = A
Leak-free closure in channel B = B

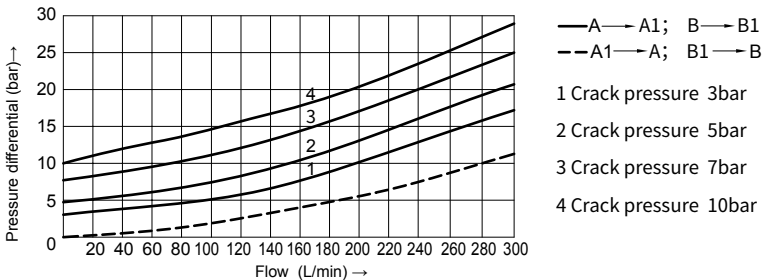
50S= Series 50S to 59S
50S to 59S : unchanged installation and connection dimensions)

1 = Crack pressure 3bar
2 = Crack pressure 5bar
3 = Crack pressure 7.5bar
4 = Crack pressure 10bar

Technical data

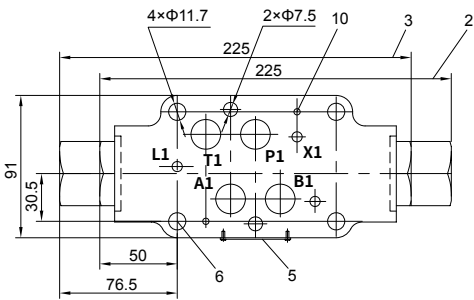
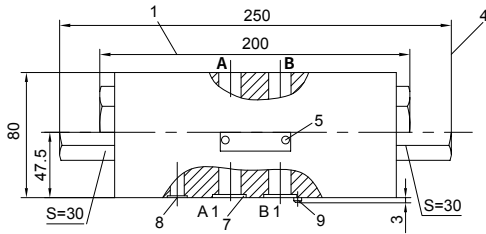
Fluid		Mineral oil suitable for NBR and FKM seal Phosphate ester for FKM seal
Degree of contamination		Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406
Fluid temperature range	°C	-30 to +80 (NBR seal) -20 to +80 (FKM seal)
Viscosity range	mm ² /s	2.8 to 500
Operating pressure	bar	315
Max.flow-rate	L/min	300
Flow direction		See symbols
Crack pressure(free flow direction)	bar	3, 5, 7.5, 10
Area ratio		A1/A2=1/11.8 A3/A2=1/2.8 (Please refer to page"02/04"for section drawing)
Weight	kg	6.8

Characteristic curves (Measured at t=40°C ±5°C , using HLP46)



Unit dimensions

(Dimensions in mm)



- 1 Valve with version 1 or 2 cracking pressure, check valve in port A and/or port B
- 2 Valve with version 3 or 4 cracking pressure, check valve in port B.
- 3 Valve with version 3 or 4 cracking pressure, check valve in port A.
- 4 Valve with version 3 or 4 cracking pressure, check valve in port A and B
- 5 Name plate
- 6 Mounting holes
- 7 O-rings
22×2.5 for ports A, B, P, T
- 8 O-rings
10×2 for ports X, Y, L
- 9 Locating pin
- 10 Locating holes

