AH-Z2S22...type Modular Hydraulic Operated Check Valve

AH-Z2S22...50S...type

Size 22
Max. Working Pressure: 315 bar
Max. Flow: 450 L/min

Contents

Features

- Porting pattern confirms 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, even for 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).

In order to make reliable closure of the two check valves in the central position, the service ports A1 and B1 of the directional valve must be connected to returning line .
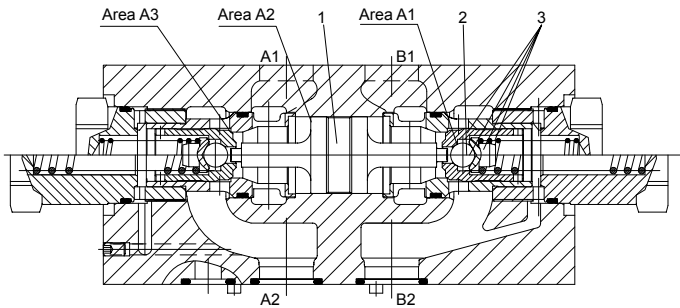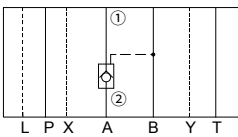

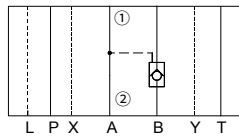**AH-Z2S22..50S/...check valve, hydraulic pilot operated**

1 Spool   2 Ball poppet valve   3 Check valve
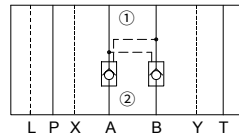
Symbols   (① =valve side, ② = sub-plate side)

AH-Z2S22A..50S/...   AH-Z2S22B..50S/...   AH-Z2S22..50S/...
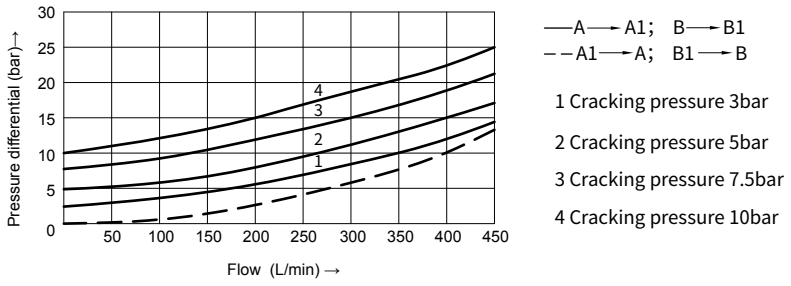
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Specification

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AH  Z2S  22  [  ]  [  ]  - 50S  /  *
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Modular Hydraulic check valve

Nominal size 22   = 22

Check valve in channel A and B =-
Check valve in channel A   = A
Check valve in channel B   = B

Further details in clear text

No code =   NBR seals
V   =   FKM seals

50S =   Series 50S to 59S
50S to 59S : unchanged installation
        and connection dimensions)
1 =   Cracking pressure 3bar
2 =   Cracking pressure 5bar
3 =   Cracking pressure 7.5bar
4 =   Cracking pressure 10bar

Technical data

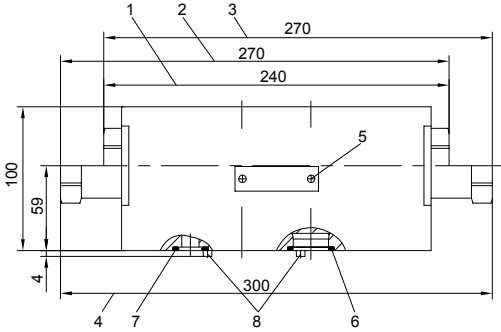| Fluid		Mineral oil suitable for NBR and FKM seal
		Phosphate ester for FKM seal
Degree of contamination		Maximum permissible degree of fluid contamination: Class 9. NAS 1638 or 20/18/15, ISO4406
Fluid temperature rang	°C	-30 to +80 (NBR seal)
		-20 to +80 (FKM seal)
Viscosity range	mm²/s	2.8 to 500
Operating pressure	bar	315
Max.flow-rate	L/min	450
Flow direction		See symbol Crack
pressure(free flow direction) bar		3, 5, 7.5, 10
Area ratio		A1/A2=1/13.6, A3/A2=1/2.8 (Please refer to page "02/04" for section drawing)
Weight	kg	12.8

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

Pressure differential (bar)→

Flow (L/min) →

——A —→ A1; B —→ B1
– –A1 —→ A; B1 —→ B

1 Cracking pressure 3bar

2 Cracking pressure 5bar

3 Cracking pressure 7.5bar

4 Cracking pressure 10bar

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 O-rings
  27×3 for ports A, B, P, T

7 O-rings
  19×3 for ports X, Y, L

8 Locating pin

9 Fixing holes

10 Locating holes