1.12

Check valve pilot operated

Type Z2S 16...L5X

Size 16 Up to 315 bar Up to 300 L/min



Contents	
Function and configuration	02
Symbols	02
Ordering code	03
Technical data	03
Characteristic curves	03
Unit dimensions	04

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

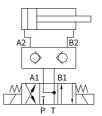
Function and configuration

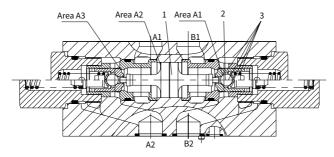
Hydraulic pilot operated check valves type Z2S16 are sandwich plate design. They are used for the leakage-free closure of one or two service ports, even for long periods of time. Free flow occurs from A1 to A2 or B1 to B2. Flow in the opposite direction is blocked.

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 neutral position, the service ports A1 and B1 of the directional valve must be connected to returning line.

Circuit example





Z2S16..L5X/...check valve, hydraulic pilot operated

1 Spool

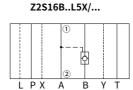
2 Ball poppet valve

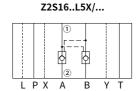
3 Check valve

Symbols

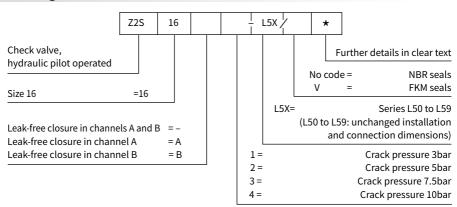
(1) =valve side, 2 = sub-plate side)







Ordering code

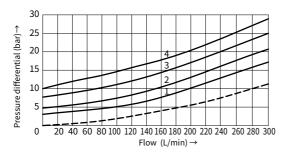


Technical data

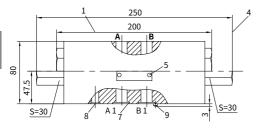
Fluid		Mineral oil suitable for NBR and FKM seal
		Phosphate ester for FKM seal
Degree of contamination		Maximum permissible degree of fluid contamination:
		Class 9. NAS 1638 or 20/18/15, ISO4406
Fluid temperature range	°C	-30 to +80 (NBR seal)
		-20 to +80 (FKM seal)
Viscosity range	mm²/s	2.8 to 500
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
A was watin		A1/A2=1/11.8 A3/A2=1/2.8
Area ratio		(Please refer to page "02/04" for section drawing)
Weight	kg	6.8

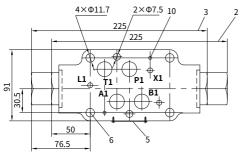
Characteristic curves

(Measured at $\vartheta_{\text{oil}}\text{=}40^{\circ}\text{C}~\pm5^{\circ}\text{C}$, using HLP46)



- ——A——A1; B——B1 ——A1——A; B1——B
- 1 Crack pressure 3bar
- 2 Crack pressure 5bar
- 3 Crack pressure 7bar
- 4 Crack pressure 10bar





- 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

