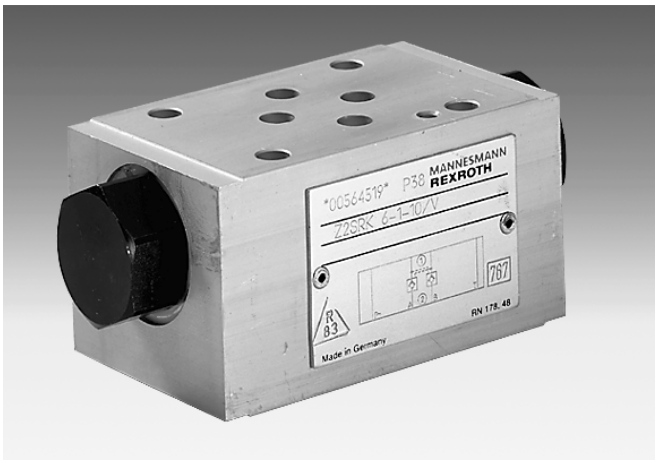
RE 21 543/03.02
Replaces: 10.95

Check valve, hydraulic pilot operated, Type Z2SRK 6

Nominal size 6
Series 1X
Maximum operating pressure 210 bar
Maximum flow 40 L/min



H/A/D 5547/96•

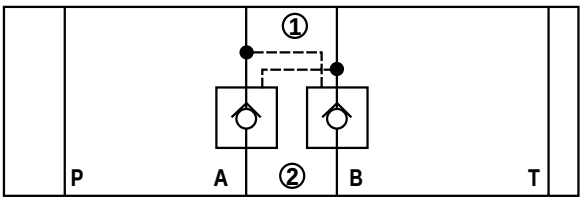
Type Z2SRK 6 -1-1X/V

Overview of contents

Features

- Sandwich plate valve
- Porting pattern to ISO 4401 and CETOP–RP 121 H **with** locating pin hole
- For the leak-free closure of two actuator ports

Ordering details, symbol (① = valve side, ② = plate side)

Symbol	Opening pressure	Material number	Type description
	1.5 bar	00564519	Z2SRK 6 -1-1X/V

Function, section, circuit example

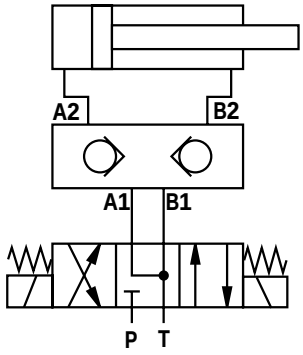
The Z2SRK 6 check valve is a hydraulic pilot operated check valve of sandwich plate design.

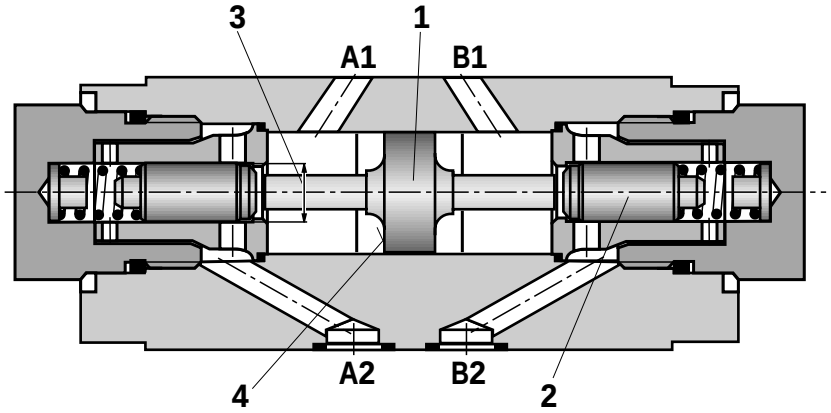
It is used for the leak-free closure of two actuator ports even over longer standstill periods.

There is free-flow from A1 to A2 or B1 to B2 and in the opposite direction the flow is blocked.

When oil flows through the valve from A1 to A2 or B1 to B2 pressure is applied to the spool (1), which is then moved to the right or the left and thereby lifts the poppet (2) off its seat. Now the pressure fluid can flow from B2 to B1 or from A2 to A1.

In order to ensure that the poppet (2) sits correctly the actuator ports of the directional valve, in the neutral position, should be connected to tank, (see circuit example).





3 Area A_1
4 Area A_2

Type Z2SRK 6 -1-1X/V

Technical data (for applications outside these parameters, please consult us!)

General

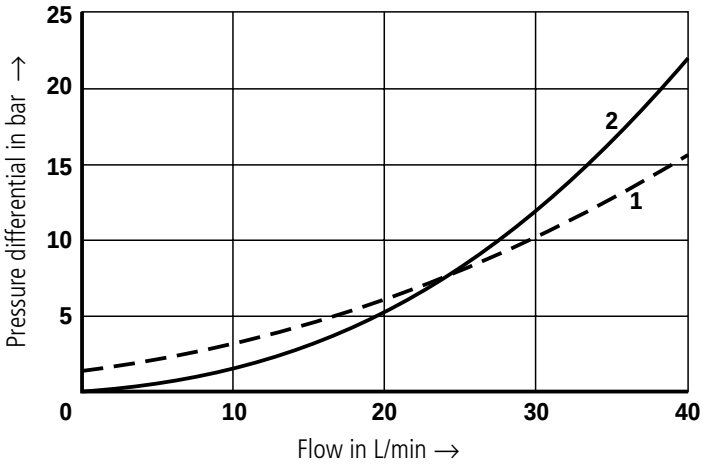
Installation		Optional
Ambient temperature range	°C	– 20 … + 80
Weight	kg	Approx. 0.5

Hydraulic

Maximum operating pressure	bar	210
Opening pressure in the free-flow direction	bar	See characteristic curves on page 3
Area ratio		A_1/A_2 = 1/3 (see section drawing above)
Maximum flow	L/min	40
Flow direction		See symbol on page 1
Pressure fluid		Mineral oil (HL, HLP) to DIN 51 524; Fast bio-degradable pressure fluids to VDMA 24 568 (also see RE 90 221); HETG (rape seed oil); HEPG (polyglycols); HEES (synthetic ester); other pressure fluids on request
Pressure fluid temperature range	°C	–20 to +80
Viscosity range	mm^2/s	2.8 to 500
Degree of contamination		Maximum permissible degree of contamination of pressure fluid is to NAS 1638 class 9. We therefore recommend a filter with a minimum retention rate of $\beta_{10} \geq 75$.

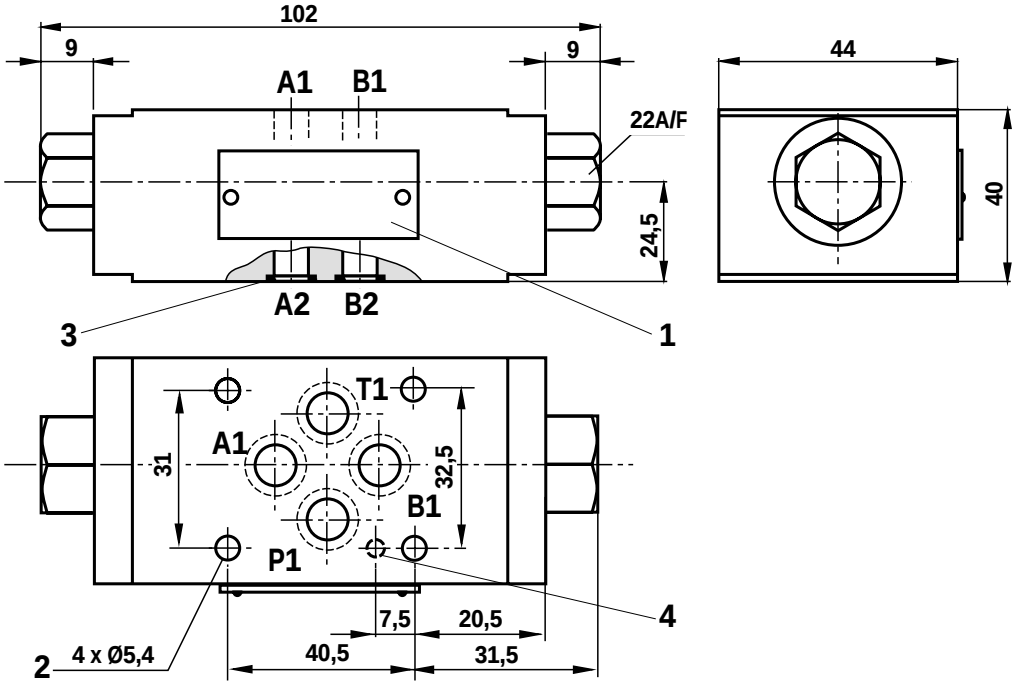
Characteristic curves (measured with HLP46, ϑ_{oil} = 40 °C ± 5 °C)

Δp-q_V-characteristic curves



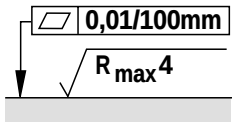
1 Opening pressure 1.5 bar
2 Via check valve insert (piloted open)

Unit dimensions (Dimensions in mm)



1 Name plate
2 Valve fixing holes
3 Same sealing rings
for ports A2, B2, P2, T2
4 Ø3 hole for 3x8 locating pin
DIN EN ISO 8752
Material No. 00005694
(separate order)

Valve fixing screws
M5 DIN 912–10.9,
Tightening torque M_A = 8.9 Nm,
must be ordered separately!



Required surface finish of
mating piece

Notes

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