RE 21 549/05.02

Replaces: 10.97

Check valve, hydraulically pilot operated Type Z2SRK 10

Nominal size 10
Series 1X
Maximum operating pressure 210 bar
Maximum flow 80 L/min

H/A/D 5857/97

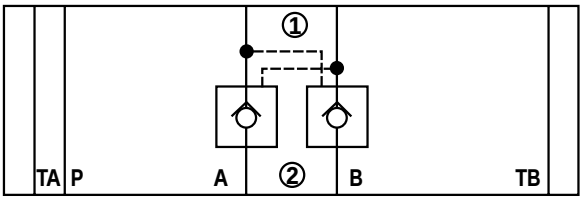
Type Z2SRK 10 -1-1X/V

Overview of contents

Features

- Sandwich plate valve
- Porting pattern to DIN 24 340 form A, ISO 4401 and CETOP–RP 121 H
- For the leak-free closure of two actuator ports

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

Symbol	Opening pressure	Material No.	Type code
	1.5 bar	00564520	Z2SRK 10 -1-1X/V

Function, section, circuit example

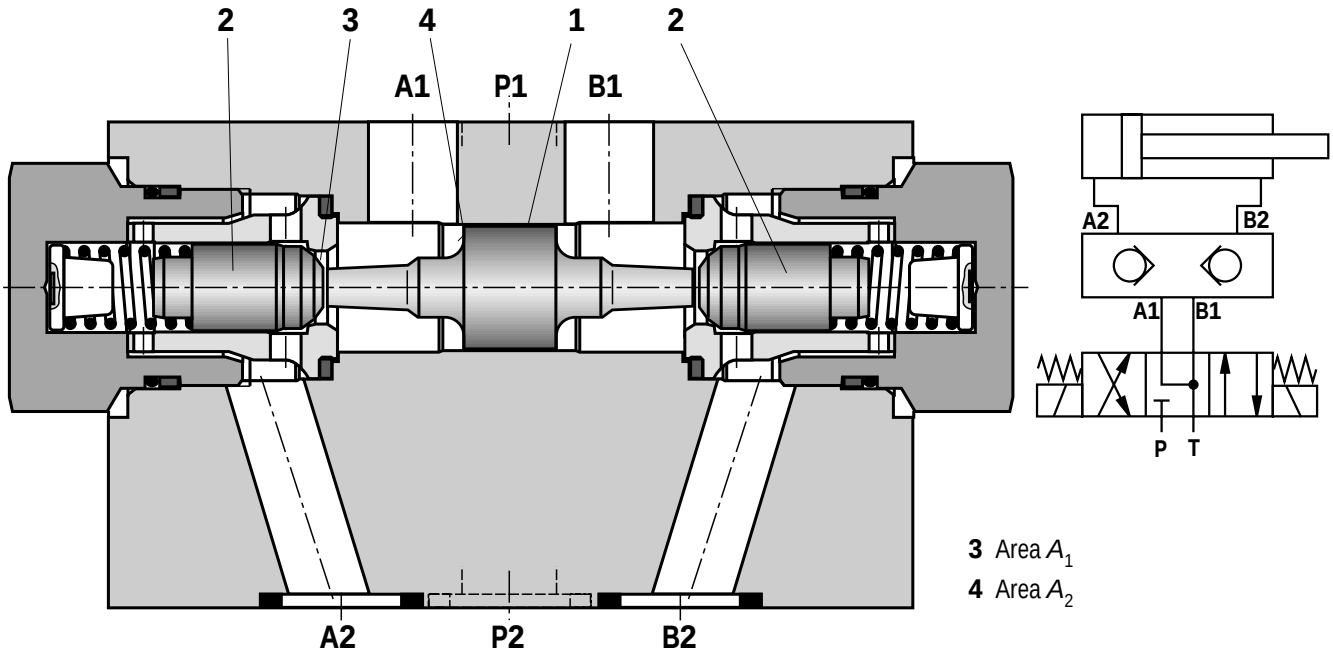
The Z2SRK 10 check valve is a hydraulically pilot operated check valve of sandwich plate design.

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 whilst it is blocked in the opposite direction.

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 left and the poppet (2) is thereby lifted 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 seats correctly the actuator ports of the directional valve, in neutral position, should be connected to tank (see circuit example).



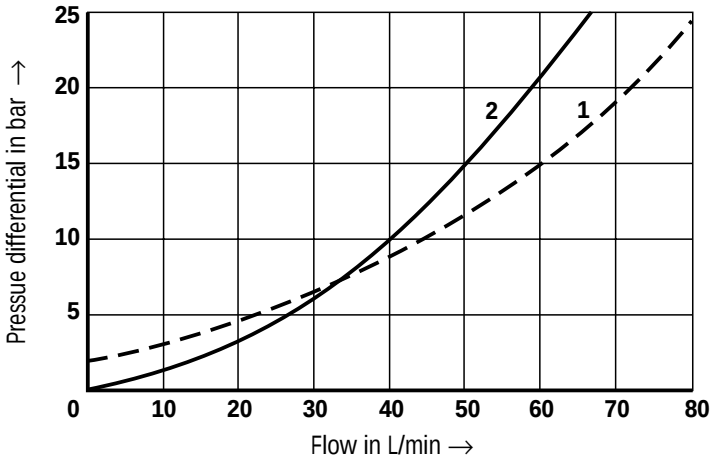
Type Z2SRK 10 -1-1X/V

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

General		
Installation		Optional
Ambient temperature range	°C	–20 to +80
Weight	kg	Approx. 3.2
Hydraulic		
Pressure fluid		Mineral oil (HL, HLP) to DIN 51 524; Fast bio-degradable pressure fluids to VDMA 24 568 (see also RE 90 221); HETG (rape seed oil); HEPG (polyglycols); HEES (synthetic ester); other pressure fluids on request
Degree of contamination		Maximum permissible degree of contamination of the pressure fluid is to NAS 1638 class 9. We therefore recommend a filter with a minimum retention rate of $ß_{10} \geq 75$
Pressure fluid temperature range	°C	–20 to +80
Viscosity range	mm^2/s	2.8 to 500
Max. operating temperature	bar	Up to 210
Max. flow	L/min	Up to 80
Flow direction		See symbol on page 1
Opening pressure in the free-flow direction		See characteristic curves on page 3
Area ratio		A_1/A_2 = 1/2,86 (see sectional drawing above)

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

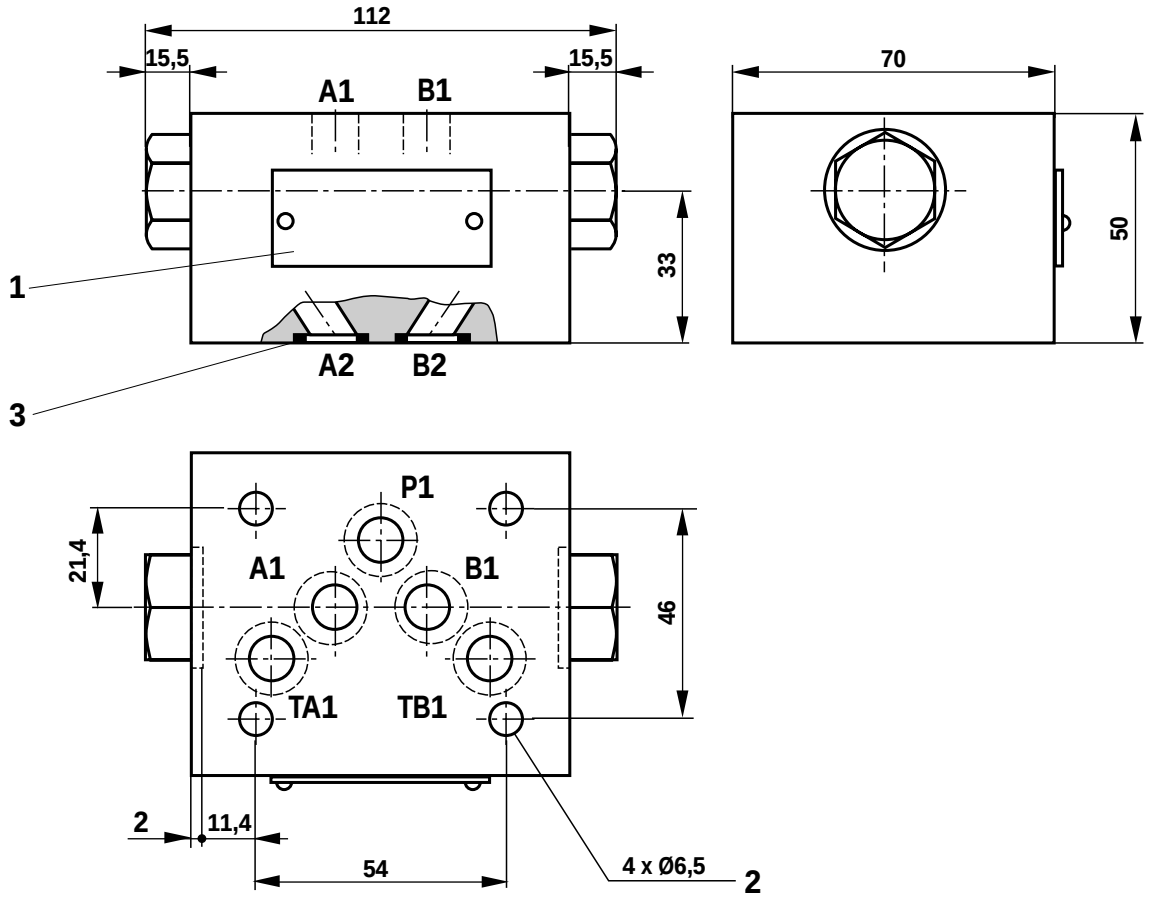
Δp-q_V-characteristic curves



1 Opening pressure 1.5 bar

2 Via check valve insert (piloted open)

Unit dimensions (dimensions in mm)

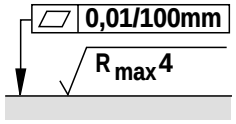


1 Name plate

2 Valve fixing screws

3 Same seal rings
for ports A2, B2, P2, TA2 and TB2

Valve fixing screws
M6 DIN 912–10.9,
Tightening torque M_A = 15.5 Nm,
must be ordered separately!



Required surface finish of mating piece

Notes

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