#### 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



Type Z2SRK 6 -1-1X/V

#### Overview of contents

Contents

Unit dimensions

# Page

Features
Ordering details
Function, section, circuit example
Technical data
Characteristic curves

#### **Features**

Sandwich plate valvePorting pattern to ISO 4401 and CETOP—RP 121 H

with locating pin hole

2 — 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
P A ② B T	1.5 bar	00564519	Z2SRK 6 -1-1X/V

2

3

3

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Z2SRK 6 **1**/4 RE 21 543/03.02

#### Function, section, circuit example

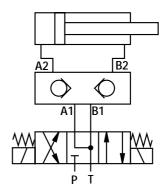
The Z2SRK 6 check valve is a hydraulic pilot operated check valve of sandwich plate design.

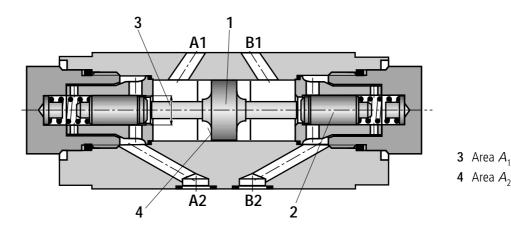
It is used for the leak-free closure of two actuator ports even over longer standstill periods.

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).



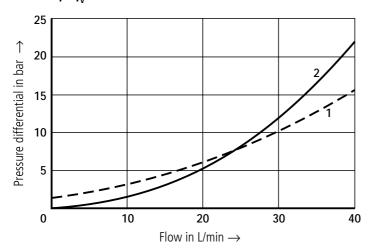


Type Z2SRK 6 -1-1X/V

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

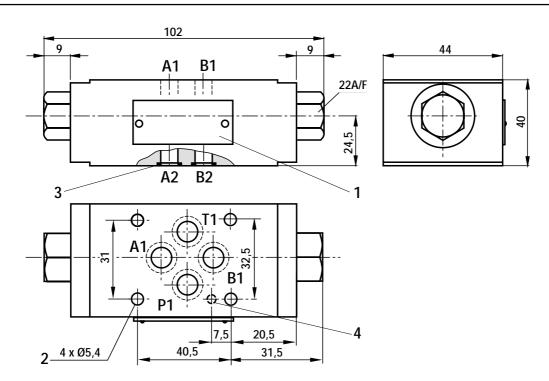
#### General Installation Optional °C -20...+80Ambient temperature range Weight kq Approx. 0.5 Hydraulic Maximum operating pressure 210 bar Opening pressure in the free-flow direction bar See characteristic curves on page 3 Area ratio $A_1/A_2 = 1/3$ (see section drawing above) Maximum flow 40 L/min 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 +80mm<sup>2</sup>/s 2.8 to 500 Viscosity range 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 $B_{10} \ge 75$ .

#### $\Delta p$ - $q_V$ -characteristic curves



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

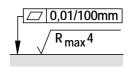
#### **Unit dimensions** (Dimensions in mm)



- 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  $M_{\rm A}=8.9$  Nm, must be ordered separately!



Required surface finish of mating piece

#### **Notes**

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