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|-------------------------------|---|---------------|----------------|----------------------------|
| MANNESMANN REXROTH | Check valve, hydraulically pilot operated, Type Z2S 6, Series 6X | | | RE 21 548/12.95 |
| | Size 6 | up to 315 bar | up to 60 L/min | Replaces: 04.92 |

Characteristics:

- Sandwich plate valve
- Mounting pattern to DIN 24 340 Form A, ISO 4401 and CETOP-RP 121 H
- For leakage-free closure of one or two actuator ports, optional
- For use in sandwich stacking systems
- 3 different opening pressures, optional



K 3856/5
Type Z2S 6 --6X/...

Function description, section

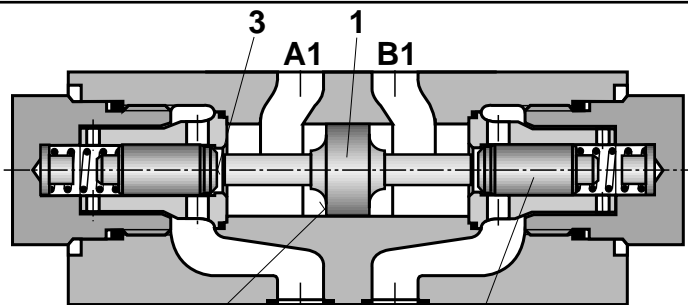
The isolating valve Z2S is a pilot operated check valve in sandwich plate design.

It is used for the leakage-free closure of one or two actuator ports even during long standstill periods.

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

If there is flow in the valve from A1 to A2 or B1 to B2 the spool (1) is effected. Thus the spool (1) is moved to the right or the left and pushes the poppet (2) off its seat. Now the pressure fluid may flow from B2 to B1 or from A2 to A1.

In order to enable the safe closure of the poppets (2) the actuator ports of the directional valve must be connected to tank when in the centre position (see circuit example).



- 1 Spool
- 2 Poppet
- 3 Area A1
- 4 Area A2

Type Z2S 6 --6X/...

Ordering code

| | | |
|--------------|--------------|----------|
| Z2S 6 | - 6X/ | * |
|--------------|--------------|----------|

| | |
|--|-----|
| Leakage-free closure in channels A and B | = - |
| Leakage-free closure in channel A | = A |
| Leakage-free closure in channel B | = B |
| Opening pressure 1,5 bar | = 1 |
| Opening pressure 3 bar | = 2 |
| Opening pressure 7 bar | = 3 |

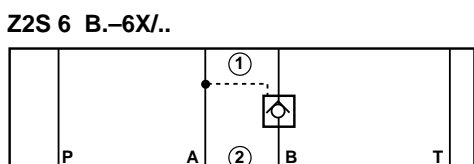
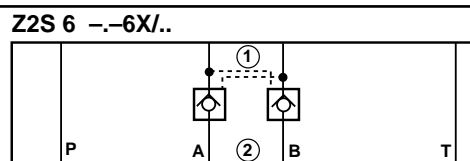
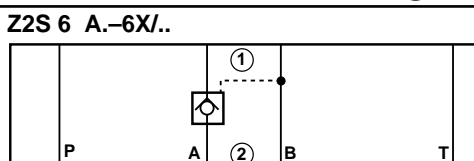
Further details in clear text

no code = NBR-seals
V = FPM-seals
(other seals on request)

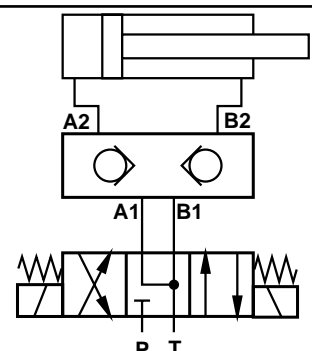
Warning!
Observe sealing suitability of pressure fluid used!

6X = Series 60 to 69
(60 to 69: unchanged installation and connection dimensions)

Symbols (1 = valve side, 2 = plate side)

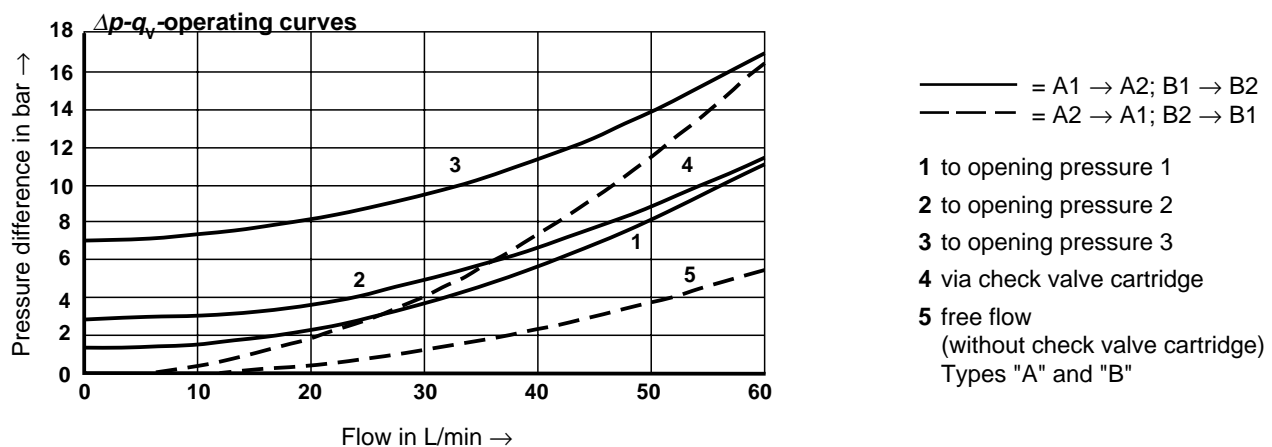


Circuit example

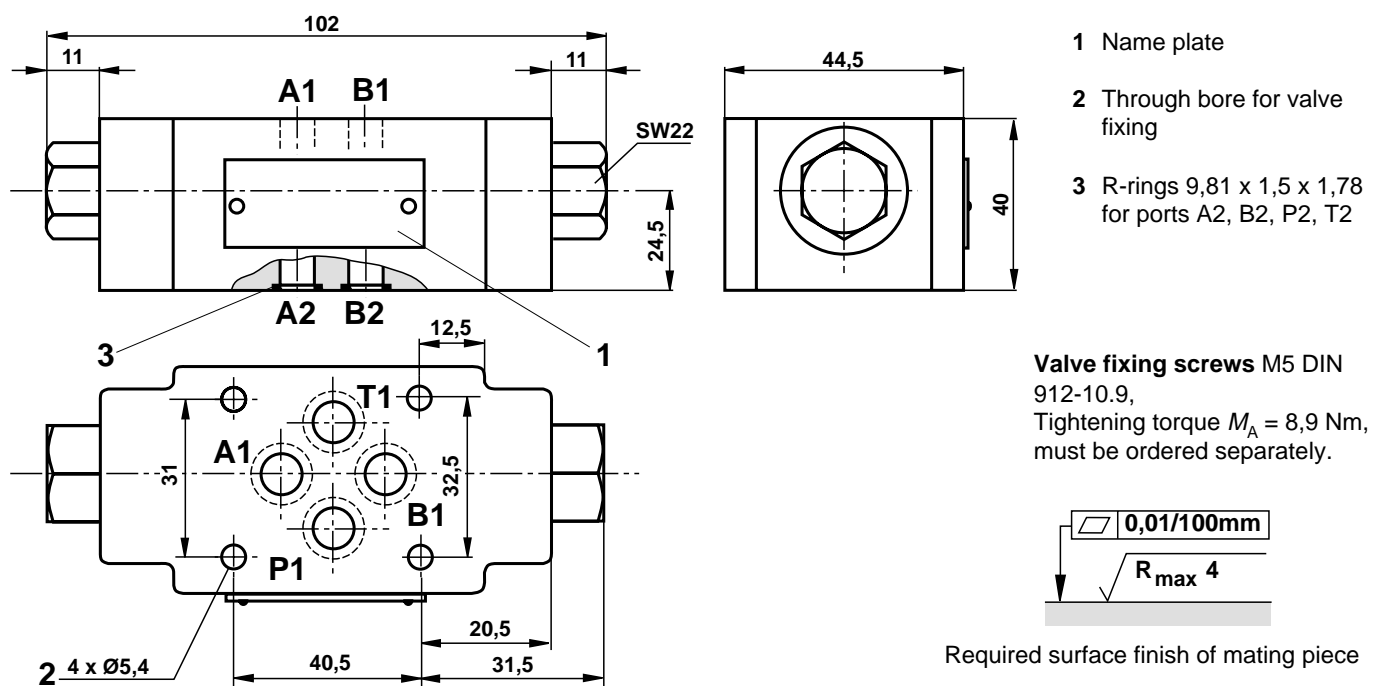


Technical data (For application outside these parameters please consult us!)

| | |
|---|--|
| Pressure fluid | Mineral oil (HL, HLP) to DIN 51 524 ¹⁾ ; Fast bio-degradable pressure fluids to VDMA 24 568 (also see RE 90 221); HETG (rape seed oil) ¹⁾ ; HEPG (polyglycols) ²⁾ ; HEES (synthetic ester) ²⁾ ; other pressure fluids on request |
| 1) suitable for NBR- and FPM-seals 2) suitable only for FPM-seals | |
| Fluid cleanliness | Maximum permissible degree of contamination of pressure fluid NAS 1638 Class 9. We therefore recommend a filter with a minimum retention rate of $\beta_{10} \geq 75$ |
| Pressure fluid temperature range | °C -30 to +80 with NBR-seals -20 to +80 with FPM-seals |
| Viscosity range | mm ² /s 2,8 to 500 |
| Operating pressure, max. | bar up to 315 |
| Flow, max. | L/min up to 60 |
| Direction of flow | see symbol |
| Opening pressure in free direction | see operating curves |
| Area ratio | A1/A2 = 1/3 |
| Weight | kg ca. 0,8 |

Operating curves (measured at $v = 41 \text{ mm}^2/\text{s}$ and $t = 50 \text{ }^\circ\text{C}$)**Unit dimensions**

(Dimensions in mm)



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