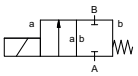
# coaxial valve
## type KB 20


| | |
|---|---|
| **2/2 way valve** | **direct acting** |
| **pressure range** | PN 0-50 bar |
| **orifice** | DN 8-14 mm |
| **connection** | thread |
| **function** | valve<br>normally closed<br>symbol **NC** |




| | | | |
|---|---|---|---|
| **design** | direct acting, with spring return | | |
| **body materials** | ⑧ 1.4104/steel, nickel plated | ② | |
| | ③ | ⑤ | |
| | ④ | ⑥ stainless steel, steel, nickel plated | |
| **valve seat** | synthetic resin on metal | | |
| **seal materials** | NBR, PTFE | FPM | |

⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

**details needed**
- orifice
- port
- function NC
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

| | | general specifications | options |
|---|---|---|---|
| **ports** | KB | threads G 1/2 | special thread NPT 1/2 |
| **function** | | NC | |
| **pressure range** | bar | \| 50 \| 35 \| 25 \| 15 \| | |
| | DN | \| 8 \| 10 \| 12 \| 14 \| | |
| **Kv value** | m³/h | \| 1,8 \| 2,5 \| 2,9 \| 3,2 \| | |
| **vacuum** | leak rate | | < $10^{-6}$ mbar•l•$s^{-1}$ |
| **pressure-vacuum** | $P_1 \Leftrightarrow P_2$ | | |
| **back pressure** | $P_2 > P_1$ | | |
| **media** | | gaseous - liquid | |
| **abrasive media** | | | |
| **damping** | opening | | |
| | closing | | |
| **flow direction** | A ⇨ B | as marked | |
| **switching cycles** | 1/min | 150 | |
| **switching time** | ms | opening 120 | |
| | | closing 270 | |
| **media temperature** | °C | DC: -20 to +100 | <-40 °C / -196 °C and >100 °C upon request |
| | | AC: -20 to +100 | <-40 °C / -196 °C and >100 °C upon request |
| **ambient temperature** | °C | DC: -20 to +80 | |
| | | AC: -20 to +80 | |
| **limit switches** | | | |
| **manual override** | | | |
| **approvals** | | | WAZ |
| **mounting** | | | |
| **weight** | kg | 3,5 | |
| **additional equipment** | | | |

| | | electrical specifications | options |
|---|---|---|---|
| **nominal voltage** | $U_n$ | DC 24 V | special voltage upon request |
| | $U_n$ | AC 230 V 40-60 Hz | special voltage upon request |
| **actuation** | DC | direct-current magnet | |
| | AC | direct-current magnet with integrated rectifier | above 100 °C with separate rectifier |
| **insulating rating** | H | 180°C | |
| **protection** | IP65 | | |
| **energized duty rating** | ED | 100% | |
| **connection** | | plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm | terminal box M16x1,5 |
| **optional** | M12x1 | connector acc. DESINA | connector acc. VDMA |
| **additional equipment** | | iluminated plug with varistor | |
| **current consumption** | | DC 24 V 2,64 A | |
| | | AC 230 V 40-60 Hz 0,30 A | |
| **explosion proof** | | | |
| **limit switches** | | | |

⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

- specifications not highlighted are standard
  specifications highlighted in grey are optional

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function: **NC**
closed when not energized