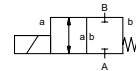


# coaxial valve

## type KB 15



**2/2 way valve** **direct acting**  
**pressure range** PN 0-400 bar  
**orifice** DN 2-8 mm  
**connection** thread  
**function** valve normally closed  
**symbol** NC



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

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

**details needed**

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

**general specifications**

**options**

|                             |                                 |  |  |
|-----------------------------|---------------------------------|--|--|
| <b>ports</b>                | KB                              | threads G 3/8                            | special threads  |
| <b>function</b>             | NC (1-coil operation)           |  | NC (2-coil operation)  |
| <b>pressure range</b>       | bar                             | 30   50   80   120   250   300           | 40   70   100   150   300   400  |
|                             | DN                              | 8   6   5   4   3   2                    | 8   6   5   4   3   2  |
| <b>Kv value</b>             | l/min                           | 24,0   17,4   13,5   11,0   4,1   1,7    | 24,0   17,4   13,5   11,0   4,1   1,7  |
| <b>vacuum</b>               | leak rate                       | < 10 <sup>-6</sup> mbar·l/s <sup>1</sup> |  |
| <b>pressure-vacuum</b>      | P <sub>1</sub> ↔ P <sub>2</sub> | upon request                             |  |
| <b>back pressure</b>        | P <sub>2</sub> > P <sub>1</sub> | upon request                             |  |
| <b>media</b>                | gaseous - liquid                |  |  |
| <b>abrasive media</b>       |                                 |  |  |
| <b>damping</b>              | opening closing                 |  |  |
| <b>flow direction</b>       | A ↔ B                           | as marked                                | bi-directional upon request  |
| <b>switching cycles</b>     | 1/min                           | 260                                      | 370  |
| <b>switching time</b>       | ms                              | opening 60 closing 170                   | opening 40 closing 120   |
| <b>media temperature</b>    | °C                              | DC: -40 to +100<br>AC: -40 to +100       | <-40°C / -196°C and >100°C upon request<br><-40°C / -196°C and >100°C upon request |
| <b>ambient temperature</b>  | °C                              | DC: -40 to +80<br>AC: -40 to +80         |  |
| <b>limit switches</b>       |                                 |  |  |
| <b>manual override</b>      |                                 |  |  |
| <b>approvals</b>            | WAZ                             |  |  |
| <b>mounting</b>             |                                 |  |  |
| <b>weight</b>               | kg                              | 2,5                                      |  |
| <b>additional equipment</b> | upon request                    |  |  |

**electrical specifications**

**options**

|                                      |                  |  |                                     |
|--------------------------------------|------------------|--|-------------------------------------|
| <b>nominal voltage</b>               | U <sub>n</sub>   | 24 V DC  | special voltage upon request        |
|                                      | U <sub>n</sub>   | 230 V 40-60 Hz AC  | special voltage upon request        |
| <b>actuation</b>                     | DC               | direct-current magnet  |                                     |
|                                      | AC               | direct-current magnet with integrated rectifier                              | above 100°C with separate rectifier |
| <b>insulation rating</b>             | H                | 180°C  |                                     |
| <b>protection</b>                    | IP65             |  |                                     |
| <b>energized duty rating</b>         | ED               | 100%   |                                     |
| <b>connection</b>                    |                  | plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm | terminal box M16x1,5                |
| <b>optional additional equipment</b> | M12x1            | connector acc. DESINA illuminated plug with varistor                         | connector acc. VDMA                 |
| <b>current consumption</b>           | 1-coil-operation | 24 V DC 1,60 A   | 24 V DC 2,30 A                      |
|                                      | operation        | 230 V 40-60 Hz AC 0,15 A   | 230 V 40-60 Hz AC 0,24 A            |
|                                      | 2-coil-operation | pick up power  | 24 V DC 5,90 A / 230 V AC 0,76 A    |
|                                      | operation        | holding power  | 24 V DC 1,58 A / 230 V AC 0,16 A    |
| <b>explosion proof</b>               |                  |  |                                     |
| <b>limit switches</b>                |                  |  |                                     |

**⚠** 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

# type **KB 15**

function: **NC**  
closed when not energized

