

# coax® data sheet - coaxial valve

type MK 50  
FK 50



08/2022



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

## details needed

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

**⚠** 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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

## 2/2-way valve

### pressure range

### orifice

### connection

### function

## direct acting

PN 0-16 bar

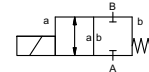
DN 50 mm

thread/flange

valve

normally closed

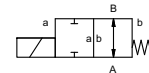
symbol **NC**



valve

normally open

symbol **NO**



## operating principle

### body material

pressure balanced, with spring return

① brass

② steel galvanized

③ brass, nickel plated

⑤ without non-ferr. Metals

④ steel, nickel plated

⑥ stainless steel

## valve seat

### seal materials

synthetic materials on metal

NBR

PTFE, FPM, CR, EPDM

## general specifications

## options

MK

threads G 2

special threads

FK

flanges PN 16

special flanges

bar

NC

NO

0-16

m³/h

38.0

leak rate

< 10<sup>-6</sup> mbar•l•s<sup>-1</sup>

P<sub>1</sub> ⇄ P<sub>2</sub>

upon request

P<sub>2</sub> > P<sub>1</sub>

available (max. 10 bar)

gaseous - liquid - highly viscous -

gelatinous - contaminated

upon request

opening

closing

available

A ⇄ B

as marked

bi-directional (max. 10 bar)

1/min

40

ms

opening

400

closing

400

°C

DC: -20 to +80

-20 to +120

AC: -20 to +80

-20 to +120

°C

DC: -20 to +80

AC: -20 to +80

inductive

available

LR/DNV/WAZ

mounting brackets

kg

MK 25.5 FK 31.0

upon request

## electrical specifications

## options

U<sub>n</sub>

DC 24 V +5%/-10%

special voltage upon request

U<sub>n</sub>

AC 230 V +5%/-10% 40-60 Hz

special voltage upon request

DC

direct-current magnet

AC

direct-current magnet with integrated rectifier

above 100 °C with separate rectifier

H

180°C

IP65

ED

100%

plug acc. DIN EN 175301-803 form A, 4

positions x90° / wire diameter 6-8 mm

terminal box M16x1,5

N-coil

DC 24 V 2.55 A

AC 230 V 40-60 Hz 0.29 A

H-coil

DC 24 V 3.29 A

AC 230 V 40-60 Hz 0.43 A

terminal box M16x1,5

ⓈII 3G Ex ec IIC T3 Ta -20...+80°C Gc

ⓈII 3D Ex tc IIIC T195°C Ta -20...+80°C Dc

ⓈII 3G Ex h IIC T3 Gc

ⓈII 3D Ex h IIIC T195°C Dc

inductive (I)

inductive (B)

normally open-PNP

normally open-PNP

## insulating rating

## protection

## energized duty rating

## connection

## optional

## additional equipment

## current consumption

## explosion proof

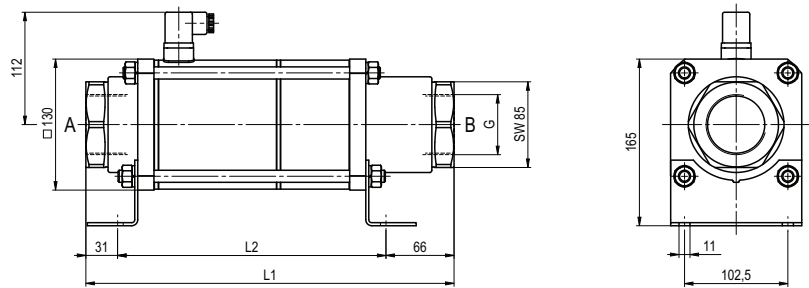
## limit switches

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

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function: **NC**  
closed when not energized



| constructive length                             | L1  | L2  | L3  |
|---|-----|-----|-----|
| standard  | 365 | 268 | 438 |
| with inductive limit switches                   | 365 | 268 | 438 |
| with manual override / inductive limit switches | 365 | 268 | 438 |

| flanges PN | DIN       | ØD  | Øk  | Ød |
|------------|-----------|-----|-----|----|
| 16         | EN 1092-1 | 165 | 125 | 18 |

function: **NO**  
open when not energized

