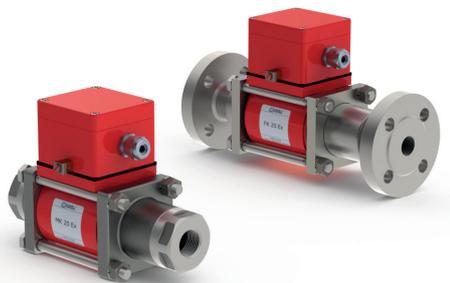


07/2022



**⚠** 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 0-100 bar

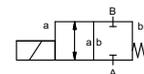
DN 20 mm

thread/flange

valve

normally closed

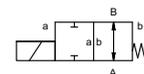
symbol **NC**



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

synthetic materials on metal

**seal materials**

NBR

PTFE, FPM, CR, EPDM

### ports

MK threads G 3/4 - G 1 1/4

special threads

FK flanges PN 16 / 40 / 100

special flanges

NC

NO

**function**

bar 0-16 / 0-40 / 0-63 / 0-100

> 100 bar upon request

**pressure range**

m<sup>3</sup>/h 8.4

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. 16 bar)

gaseous - liquid - highly viscous -  
gelatinous - contaminated

upon request

**abrasive media**

**damping**

opening

upon request

closing

available

A ↔ B as marked

bi-directional (max. 16 bar)

1/min 150

ms opening 110

closing 110

°C DC: -20 to +40

-40 to +40

AC: -20 to +40

-40 to +40

°C DC: -20 to +40

-40 to +40

AC: -20 to +40

-40 to +40

**media temperature**

**ambient temperature**

**limit switches**

**manual override**

**approvals**

**mounting**

**weight**

**additional equipment**

inductive

available

LR/DNV/WAZ

mounting brackets

kg MK 5.5 FK 7.5

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 separate rectifier outside of the explosion-proof area

sand sealed rectifier

H 180°C

IP65

ED 100%

M16x1,5 terminal box

**nominal voltage**

**actuation**

**insulating rating**

**protection**

**energized duty rating**

**connection**

**optional**

**additional equipment**

**current consumption**

U<sub>n</sub> V-DC 24 200

48 98 110 220

I<sub>n</sub> A 1.21 0.14

0.66 0.29 0.24 0.12

**explosion proof**

Ⓜ II 2G Ex mb e II T4

Ⓜ II 2D Ex tD A21 IP65 T130 °C

Ⓜ II 2G Ex h IIC T4 Gb

Ⓜ II 2D Ex h IIIC T130°C Db

**limit switches**

inductive NAMUR

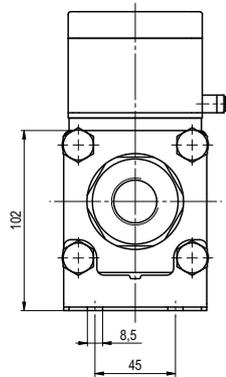
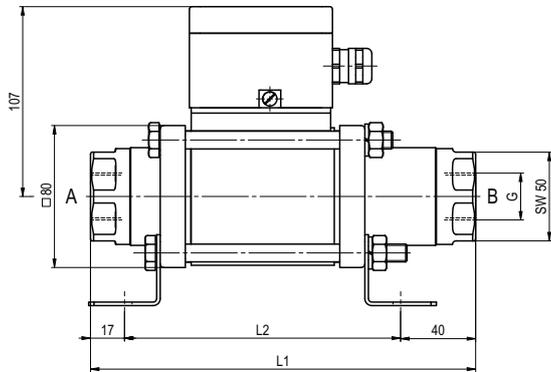
circuit amplifier

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

# coax® data sheet - coaxial valve

type MK 20 Ex  
FK 20 Ex

function: **NC**  
closed when not energized



constructive length	L1	L2	L3
standard	215	158	269
with inductive limit switches	259	202	313
with manual override / inductive limit switches	259	202	313

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-1	105	75	14
100	EN 1092-1	130	90	18

function: **NO**  
open when not energized

