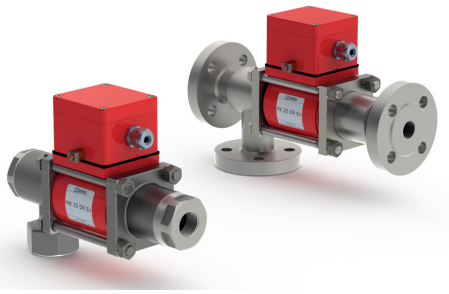


12/2024



**⚠** 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
- inlet pressure at A, B or C
- 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.

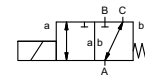
specifications not highlighted are standard  
 specifications highlighted in grey are optional

**3/2 way valve**

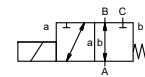
**pressure range**  
**orifice**  
**connection**  
**function**

**direct acting**

PN 0-40 bar  
DN 20 mm  
thread/flange  
valve  
normally closed (A ► B)  
symbol **NC**



valve  
normally open (A ► B)  
symbol **NO**



**operating principle**

**body material**

pressure balanced, with spring return, intersecting switch-over

- |                        |                            |
|------------------------|----------------------------|
| 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**

**general specifications**

**options**

**function**  
**pressure range**

MK	threads G 3/4 - G 1 1/4	special threads
FK	flanges PN 16 / 40	special flanges
	NC	NO
bar	0-16 / 0-40	
	A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 16	

**Kv value**

m<sup>3</sup>/h 6,7

**vacuum**

leak rate

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

**pressure-vacuum**

P<sub>1</sub> ⇔ P<sub>2</sub>

upon request

**back pressure**

P<sub>2</sub> > P<sub>1</sub> see pressure range

**media**

gaseous - liquid - highly viscous -

gelatinous - contaminated

upon request

**abrasive media**

opening

closing

see pressure range

**flow direction**

1/min

150

**switching cycles**

**switching time**

ms

opening	110
closing	110

**media temperature**

°C

DC: -20 to +40 -40 to +40

AC: -20 to +40 -40 to +40

**ambient temperature**

°C

DC: -20 to +40 -40 to +40

AC: -20 to +40 -40 to +40

**limit switches**

inductive

**manual override**

LR/DNV/WAZ

**approvals**

**mounting**

mounting brackets

**weight**

kg

MK 6,0 FK 8,4

**additional equipment**

upon request

**nominal voltage**

**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

**insulating rating**

H

180°C

**protection**

IP65

**energized duty rating**

ED

100%

**connection**

M16x1,5

terminal box

**optional**

**additional equipment**

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**

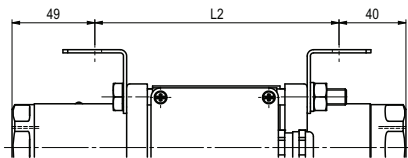
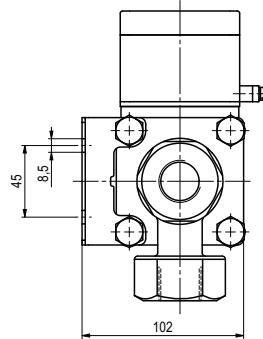
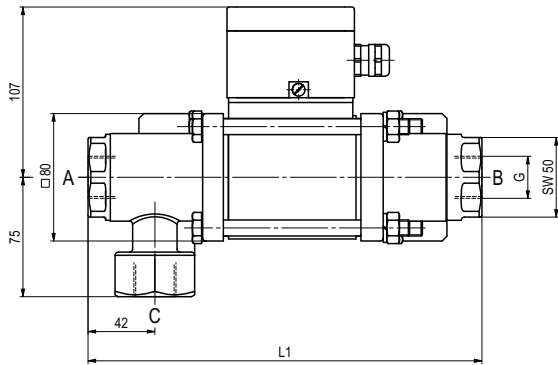
inductive NAMUR

circuit amplifier

# coax® data sheet - coaxial valve

type MK 20 DR Ex  
FK 20 DR Ex

function: **NC**  
closed when not energized (A ► B)



constructive length	L1	L2	L3
standard	247	158	301
with inductive limit switches	291	202	345

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-2	105	75	14

function: **NO**  
open when not energized (A ► B)

