

03/2022



**!** 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
- 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 0-25 bar

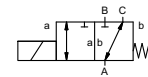
DN 10 mm

thread

valve

normally closed (A ► B)

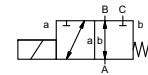
symbol **NC**



valve

normally open (A ► B)

symbol **NO**



**operating principle**

**body material**

pressure balanced, with spring return, intersecting switch-over

- ① brass
- ②
- ③ brass, nickel plated
- ⑤
- ④
- ⑥ stainless steel
- ⑦ aluminium

**valve seat**

synthetic materials on metal

**seal materials**

NBR FPM, CR, EPDM

**ports**

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

**function**

NC NO

**pressure range**

0-16 / 0-25  
 A ⇒ B max. 25 / B ⇒ A max. 16 / A ⇒ C max. 25 / C ⇒ A max. 25

**Kv value**

m<sup>3</sup>/h 2,6

**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  
 gaseous - liquid - contaminated

**abrasive media**

damping

opening

closing

see pressure range

**flow direction**

1/min 200

**switching cycles**

**switching time**

ms opening 40  
 closing 25

**media temperature**

°C DC: -10 to +80 -30 to +120  
 AC: -10 to +80 -30 to +120

**ambient temperature**

°C DC: -10 to +80  
 AC: -10 to +80

**limit switches**

**manual override**

**approvals**

LR/DNV/WAZ  
mounting brackets

**mounting**

**weight**

kg MK 2,2

**additional equipment**

upon request

**nominal voltage**

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

**actuation**

DC direct-current magnet  
 AC direct-current magnet with integrated rectifier

**insulating rating**

H 180°C

**protection**

IP65

**energized duty rating**

ED 100%

**connection**

plug acc. DIN EN 175301-803 form A, 4 terminal box M16x1,5  
 positions x90° / wire diameter 6-8 mm

**optional**

**additional equipment**

M12x1 connector acc. DESINA connector acc. VDMA

**current consumption**

illuminated plug with varistor  
 N-coil DC 24 V 1,04 A  
 AC 230 V 40-60 Hz 0,13 A

**explosion proof**

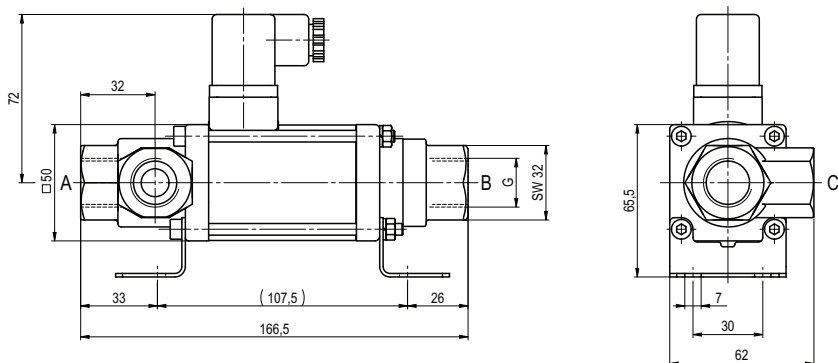
H-coil DC 24 V 1,28 A  
 AC 230 V 40-60 Hz 0,16 A  
 terminal box M16x1,5  
Ⓜ II 3G Ex nA IIC T3 Ta -20...+80°C Gc  
Ⓜ II 3D Ex tc IIIC T195°C Ta -20...+80°C Dc  
Ⓜ II 3G Ex h IIC T3 Gc  
Ⓜ II 3D Ex h IIIC T195°C Dc

**limit switches**

# coax® data sheet - coaxial valve

type MK 10 DR

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



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

