

08/2021



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

**details needed for main valve**

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

**details needed for pneumatic actuation**

- nominal voltage
- type of protection
- actuation pressure range min/max
- pilot valve type

**details needed for hydraulic actuation**

- actuation pressure range min/max
- hydraulic control valve function

**!** 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

**2/2-way valve**

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

**design**

**body materials**

**valve seat**

**seal materials**

**ports**

**function**  
**pressure range**

**Kv value**  
**vacuum**  
**pressure-vacuum**

**back pressure**  
**media**

**abrasive media**  
**damping**

**flow direction**  
**switching cycles**  
**switching time**

**media temperature**  
**ambient temperature**  
**flush ports**  
**leak ports**  
**limit switches**  
**manual override**  
**approvals**  
**mounting**  
**weight**  
**additional equipment**

**nominal voltage**

**power consumption**

**protection**  
**energized duty rating**  
**connection**  
**optional additional equipment**  
**max. temperature**

**explosion proof**

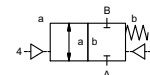
**actuation pressure range**  
**air consumption**  
**cycle speed**  
**control**  
**pilot valve interface**  
**actuator ports**

**actuation pressure range**  
**control**  
**actuator ports**  
**by media**

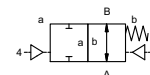
**externally controlled**

PN 0-100 bar  
 DN 10 mm  
 thread

valve normally closed  
 symbol **NC**



valve normally open  
 symbol **NO**



pressure balanced, with spring return

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

synthetic resin on metal

NBR PTFE, FPM, CR, EPDM

**general specifications**

VMK threads G 1/4 - G 3/4  
 NC  
 bar 0-16 / 0-40 / 0-64 / 0-100

m³/h 2,5 ( > 64 bar = 2,1 )  
 leak rate  
 P1 ↔ P2

P2 > P1 gaseous - liquid - highly viscous - gelatinous - pasty - contaminated

opening closing by throttles on pilot valve  
 A ↔ B as marked  
 1/min 680  
 ms opening 30-3000 closing 50-3000

°C direct mounted pilot valve 60  
 °C direct mounted pilot valve 50

via pilot valve

kg VMK 1,7

**electrical specifications**

Un DC 24 V  
 Un AC 230 V 50 Hz  
 DC 4,8 W  
 AC pick up 11,0 VA holding 8,5 VA  
 IP65 (P54) acc. DIN 40050  
 ED 100%

M12x1 connector acc. DESINA illuminated plug with varistor

media 60°C	DC 24 V	3,25 W
ambient 50°C	AC 230 V 50 Hz	2,90 W
E Ex e II T5	nominal voltage Un	
	power consumption	

**pneumatic specifications**

bar 4-10  
 cm³/stroke 2  
 main valve speed variable by throttles on pilot valve preferably 5/2 way pilot valve  
 co-ax NAMUR acc. VDI / VDE 3845  
 2/4 G 1/8

**hydraulic specifications**

bar 4-10 preferably 4/2 way control valve  
 X/Y G 1/8

**options**

special threads

NO

< 10<sup>-6</sup> mbar•L•s<sup>-1</sup>  
 pressure side max. 100 bar  
 vacuum side leak rate upon request available (max. 16 bar)

upon request

bi-directional upon request

remote mounted pilot valve outside temperatur range of media max. 160 °C

inductive

LR/GL/WAZ mounting brackets

upon request

**options**

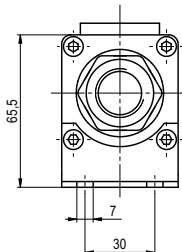
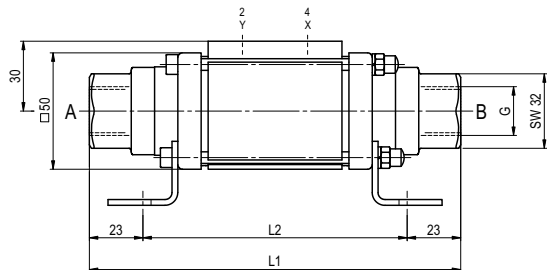
special voltage upon request  
 special voltage upon request  
 2,5 W (actuation pressure range 4-7 bar)

connector acc. VDMA

# coax® data sheet - coaxial valve

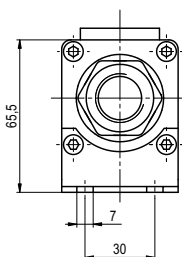
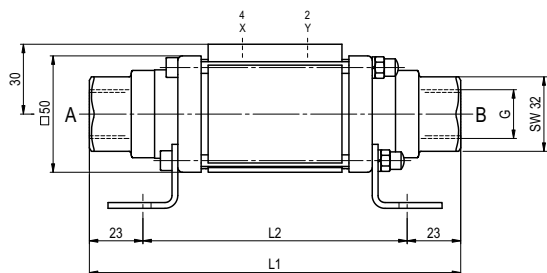
## type VMK 10

function: **NC**  
closed when not energized



constructive length	L1	L2 [0-64 bar]	L2 [> 64 bar]
standard	159,5	113,5	120,5
with inductive limit switches	179,5	133,5	140,5

function: **NO**  
open when not energized



### pneumatic specifications

