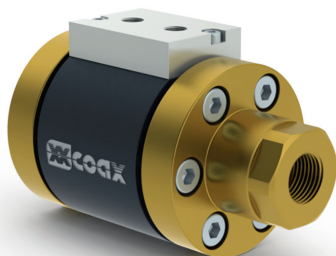


09/2022



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

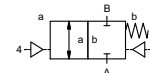
■ specifications not highlighted are standard  
 ■ specifications highlighted in grey are optional

**2/2-way valve**

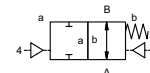
**pressure range**  
**orifice**  
**connection**  
**function**

**externally controlled**

PN 0-200 bar  
 DN 10 mm  
 thread  
 valve normally closed  
 symbol **NC**



valve normally open  
 symbol **NO**



**operating principle**

pressure balanced, with spring return

**body material**

- ① brass
- ②
- ③
- ④
- ⑤
- ⑥ stainless steel

**valve seat**

synthetic materials on metal

**seal materials**

NBR PTFE, FPM

**ports**

VMK threads G 3/8 - G 1/2

**function**

NC NO

**pressure range**

bar 0-200

**Kv value**

m³/h 3.5

**vacuum**

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

**pressure-vacuum**

P<sub>1</sub> ⇄ P<sub>2</sub> pressure side max. 200 bar  
 vacuum side leak rate upon request available (max. 16 bar)

**back pressure**

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

**media**

gaseous - liquid - highly viscous

**abrasive media**

upon request

**damping**

opening closing by throttles on pilot valve

**flow direction**

A ⇄ B as marked bi-directional upon request

**switching cycles**

1/min 680

**switching time**

ms opening 30-3000  
 closing 50-3000

**media temperature**

°C direct mounted pilot valve 60 remote mounted pilot valve outside tem-

**ambient temperature**

°C direct mounted pilot valve 50 peratur range of media max. 160 °C

**flush ports**

**leak ports**

**limit switches**

inductive

**manual override**

via pilot valve

**approvals**

LR/DNV/WAZ

**mounting**

**weight**

kg VMK-H 2.6

**additional equipment**

upon request

**nominal voltage**

U<sub>n</sub> DC 24 V special voltage upon request  
 U<sub>n</sub> AC 230 V 50 Hz special voltage upon request  
 DC 4.8 W 2.5 W [actuation pressure range 4-7 bar]

**power consumption**

**protection**

pick up 11.0 VA holding 8.5 VA

**energized duty rating**

IP65 (P54) acc. DIN 40050

**connection**

ED 100%

**optional**

plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm

**additional equipment**

M12x1 connector acc. DESINA connector acc. VDMA

**max. temperature**

illuminated plug with varistor

**explosion proof**

media 60°C  
 ambient 50°C  
 E Ex e II T5 nominal voltage U<sub>n</sub> DC 24 V 3.25 W  
 power consumption AC 230 V 50 Hz 2.90 W

**actuation pressure range**

bar 4-8

**air consumption**

cm³/stroke 5

**cycle speed**

main valve speed variable by throttles on pilot valve

**control**

preferably 5/2 way pilot valve

**pilot valve interface**

co-ax / Namur

**actuator ports**

2/4 G 1/8

**actuation pressure range**

bar 4-10

**control**

preferably 4/2 way control valve

**actuator ports**

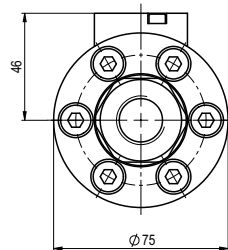
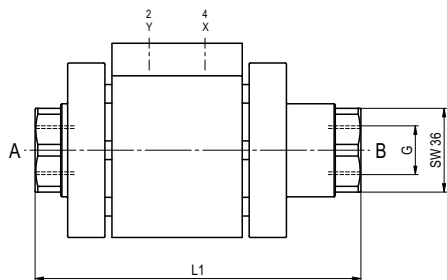
X/Y G 1/8

**by media**

# coax® data sheet - coaxial valve

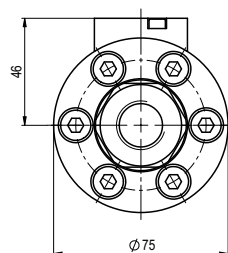
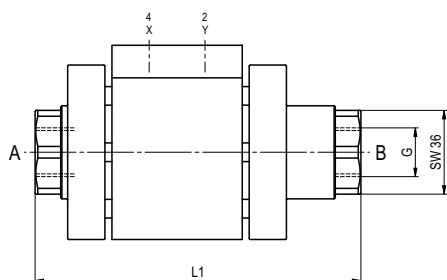
type VMK-H 10

function: **NC**  
closed when not energized



|                               |     |
|-------------------------------|-----|
| constructive length           | L1  |
| standard                      | 140 |
| with inductive limit switches | 160 |

function: **NO**  
open when not energized



## pneumatic specifications

