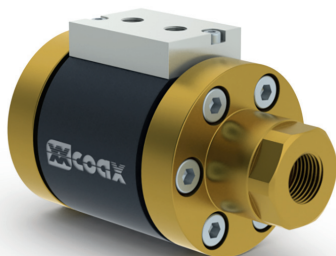


04/2022



! 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.

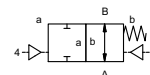
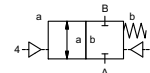
■ specifications not highlighted are standard
 ■ specifications highlighted in grey are optional

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

body material

pressure balanced, with spring return
 ① brass
 ②
 ③
 ④ stainless steel

valve seat

seal materials

synthetic materials on metal
 NBR PTFE, FPM

ports

function
pressure range

general specifications
 VMK threads G 3/8 - G 1/2
 bar NC NO
 0-200

Kv value
vacuum
pressure-vacuum

m³/h 3,5
 leak rate < 10⁻⁶ mbar•L•s⁻¹
 P₁ ↔ P₂ pressure side max. 200 bar
 P₂ > P₁ vacuum side leak rate upon request available (max. 16 bar)

back pressure
media

gaseous - liquid - highly viscous
 upon request

abrasive media
damping

opening closing by throttles on pilot valve
 A ↔ B as marked bi-directional upon request

flow direction
switching cycles
switching time

1/min 680
 ms opening 30-3000
 closing 50-3000

media temperature
ambient temperature

°C direct mounted pilot valve 60 remote mounted pilot valve outside temperature range of media max. 160 °C
 °C direct mounted pilot valve 50

flush ports

leak ports

limit switches

manual override

approvals

mounting

weight

additional equipment

inductive
 via pilot valve LR/DNV/WAZ
 kg VMK-H 2,6
 upon request

nominal voltage

power consumption

protection
energized duty rating
connection
optional
additional equipment
max. temperature

electrical specifications
 U_n DC 24 V special voltage upon request
 U_n AC 230 V 50 Hz special voltage upon request
 DC 4,8 W 2,5 W [actuation pressure range 4-7 bar]
 AC pick up 11,0 VA holding 8,5 VA
 IP65 (P54) acc. DIN 40050
 ED 100%

explosion proof

plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm
 M12x1 connector acc. DESINA connector acc. VDMA
 illuminated plug with varistor
 media 60°C
 ambient 50°C
 E Ex e II T5 nominal voltage U_n DC 24 V 3,25 W
 power consumption AC 230 V 50 Hz 2,90 W

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

pneumatic specifications
 bar 4-10
 cm³/stroke 5
 main valve speed variable by throttle on pilot valve preferably 5/2 way pilot valve
 co-ax / Namur
 2/4 G 1/8

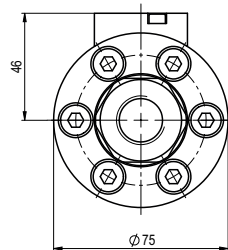
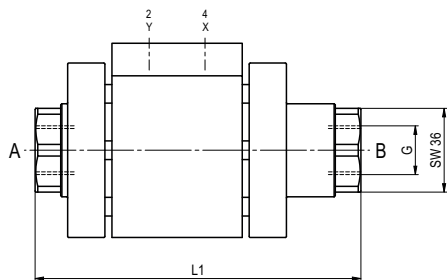
actuation pressure range
control
actuator ports
by media

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

coax® data sheet - coaxial valve

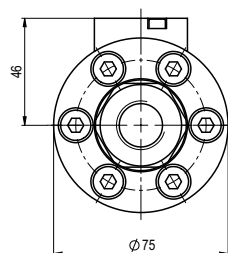
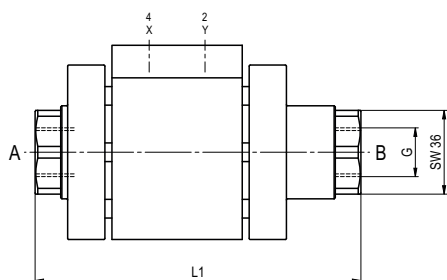
type VMK-H 10

function: **NC**
closed when not energized



constructive length	L1
standard	140
with inductive limit switches	160

function: **NO**
open when not energized



pneumatic specifications

