

coaxial valve

type VMK 10 DR

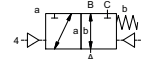
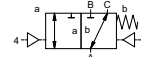
5-VMK 10 DR

valve type with pilot valve



3/2 way valve externally controlled
pressure range PN 0-100 bar
orifice DN 10 mm
connection thread
function valve normally closed (A ► B)
 symbol **NC**

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



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

design pressure balanced, with spring return, intersecting switch-over
body materials ① brass ②
 ③ brass, nickel plated ⑤
 ④ ⑥ stainless steel

valve seat seal materials synthetic resin on metal
 NBR PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- 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
- low wattage coil, actuation pressure range 4-7 bar
- 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

general specifications

ports VMK
function NC
pressure range bar
Kv value m³/h
vacuum leak rate
pressure-vacuum P₁ ⇌ P₂
back pressure P₂ > P₁
media
abrasive media
damping
flow direction
switching cycles
switching time
media temperature °C
ambient temperature °C
flush ports
leak ports
limit switches
manual override
approvals
mounting
weight
additional equipment

threads G 1/4 - G 3/4
 NC
 0-16 / 0-40 / 0-64 / 0-100
 A ⇒ B max. 100 / B ⇒ A max. 16 / A ⇒ C max. 100 / C ⇒ A max. 64
 2,5 (> 64 bar = 2,1)
 P₁ ⇌ P₂
 see pressure range
 gaseous - liquid - highly viscous - gelatinous - pasty - contaminated
 upon request
 opening by throttles on pilot valve
 closing see pressure range
 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
 LR/GL/WAZ
 mounting brackets
 kg VMK 1,8

options

special threads
 NO
 ≤ 10⁻⁶ mbar·l·s⁻¹
 pressure side max. 100 bar
 vacuum side leak rate upon request
 remote mounted pilot valve outside
 temperatur range of media max. 160 °C
 inductive
 upon request

electrical specifications

nominal voltage U_n
power consumption DC
protection IP65 (P54)
energized duty rating ED
connection
optional
additional equipment
max. temperature
explosion proof

DC 24 V
 AC 230 V 50 Hz
 4,8 W
 AC pick up 11,0 VA holding 8,5 VA
 acc. DIN 40050
 100%
 plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm
 M12x1 connector acc. DESINA
 illuminated plug with varistor
 media 60°C
 ambient 50°C
 E Ex e II T5
 nominal voltage U_n
 power consumption

options

special voltage upon request
 special voltage upon request
 2,5 W
 connector acc. VDMA
 DC 24 V 3,25 W
 AC 230 V 50 Hz 2,90 W

pneumatic specifications

actuation pressure range bar
air consumption cm³/stroke
cycle speed
control
pilot valve interface
actuator ports

4-10
 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

options

hydraulic specifications

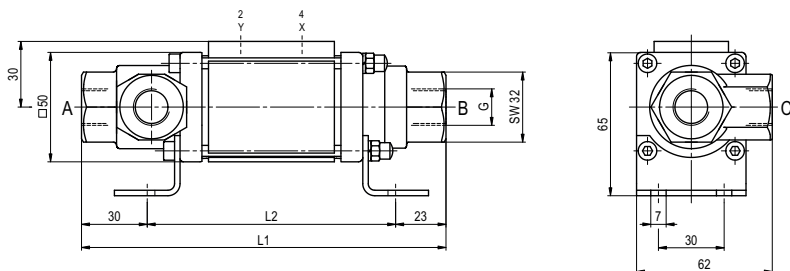
actuation pressure range bar
control
actuator ports X/Y
by media

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

options

type VMK 10 DR

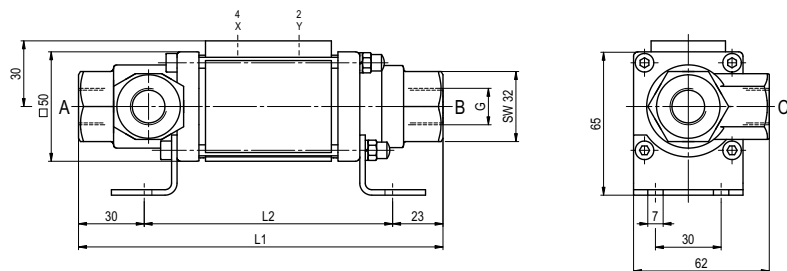
function: **NC**
closed when not energized (A ► B)



constructive length	L1	L2
standard	166,5	113,5
with inductive limit switches	186,5	133,5

type VMK 10 DR

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



pneumatic specifications

