

type VMK-H 25 DR
VFK-H 25 DR

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
- 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
- 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

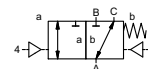
3/2 way valve

pressure range
orifice
connection
function

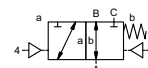
externally controlled

PN 0-200 bar
DN 25 mm
thread/flange

valve normally closed (A ► B)
symbol **NC**



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



operating principle

pressure balanced, with spring return, intersecting switch-over

body material

- ①
- ② steel galvanized
- ③
- ④ steel, nickel plated
- ⑤ without non-ferr. Metals
- ⑥ stainless steel

valve seat

synthetic materials on metal

seal materials

NBR PTFE, FPM, CR, EPDM

ports

general specifications

options

function
pressure range

VMK-H threads G 1
VFK-H flanges PN 160 / 250
NC
0-200
A ⇒ B max. 200 / B ⇒ A max. 100 / A ⇒ C max. 200 / C ⇒ A max. 200
m³/h 10.8
leak rate < 10⁻⁶ mbar•L•s⁻¹
P₁ ⇔ P₂ pressure side max. 200 bar
vacuum side leak rate upon request

special threads
special flanges
NO

Kv value
vacuum
pressure-vacuum

P₂ > P₁ see pressure range
gaseous - liquid - highly viscous

back pressure
media

available

abrasive media
damping

opening by throttles on pilot valve
closing see pressure range

available

flow direction
switching cycles
switching time

1/min 200
ms opening 50-3000
closing 50-3000

media temperature
ambient temperature

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

flush ports

available

leak ports

available

limit switches

inductive / mechanical upon request

manual override

via pilot valve

approvals

LR/DNV/WAZ

mounting

mounting brackets

weight

kg VMK-H 10.2 VFK-H 11.8

additional equipment

upon request

nominal voltage

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]

power consumption

protection
energized duty rating

AC pick up 11.0 VA holding 8.5 VA
IP65 (P54) acc. DIN 40050
ED 100%

connection

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

optional

M12x1 connector acc. DESINA illuminated plug with varistor

connector acc. VDMA

additional equipment

max. temperature

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

explosion proof

pneumatic specifications

options

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

bar 4-8
cm³/stroke 24
main valve speed variable by throttles on pilot valve
preferably 5/2 way pilot valve
co-ax / Namur ISO 1
2/4 G 1/8 G 1/4

actuation pressure range
control
actuator ports
by media

hydraulic specifications

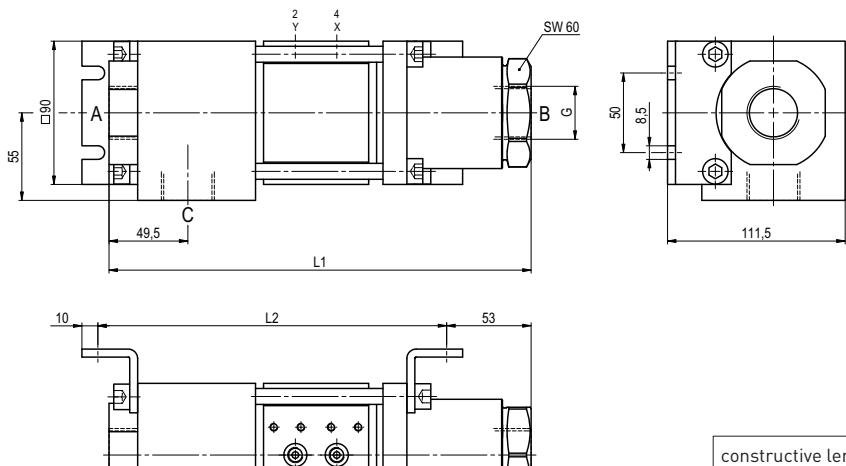
options

bar 15-30 / 30-60
preferably 4/2 way control valve
X/Y G 1/4 NPT 1/4

coax® data sheet - coaxial valve

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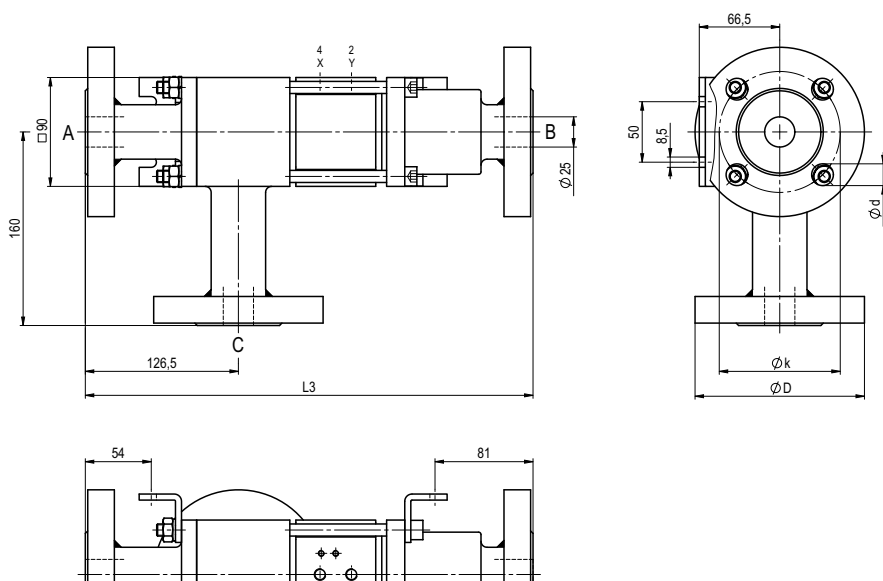
function: **NC**
closed when not energized (A ► B)



| constructive length | L1 | L2 | L3 |
|------------------------------------|-----|-----|-----|
| standard | 265 | 219 | 370 |
| with inductive limit switches | 295 | 249 | 400 |
| with force-feed lubrication nipple | 295 | 249 | 400 |
| with mechanical limit switches | - | - | - |

| flanges PN | DIN | ØD | Øk | Ød |
|------------|-----------|-----|-----|----|
| 160 | EN 1092-1 | 140 | 100 | 18 |
| 250 | EN 1092-1 | 150 | 105 | 22 |

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



pneumatic specifications

