

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
- 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.

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

3/2 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

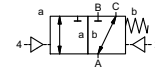
actuation pressure range air consumption cycle speed control pilot valve interface actuator ports

actuation pressure range control actuator ports by media

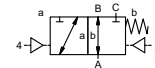
externally controlled

pressure range
DN 15 mm
thread/flange

valve normally closed (A ► B) symbol NC



valve normally open (A ► B) symbol NO



pressure balanced, with spring return, intersecting switch-over

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

synthetic resin on metal

NBR **PTFE, FPM, CR, EPDM**

general specifications

VMK-H threads G 1/2
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

options

special threads
special flanges
NO

m³/h 4,4
leak rate < 10⁻⁶ mbar•L•s⁻¹
P₁ ⇔ P₂ pressure side max. 200 bar
vacuum side leak rate upon request

P₂ > P₁ see pressure range
gaseous - liquid - highly viscous - gelatinous - pasty - contaminated
available

opening by throttles on pilot valve
closing see pressure range

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

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

available
available
inductive / mechanical upon request

via pilot valve
LR/GL/WAZ
mounting brackets

kg VMK-H 6,5 VFK-H 7,3
upon request

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]

options

AC pick up 11,0 VA holding 8,5 VA
IP65 (P54) acc. DIN 40050
ED 100%
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

pneumatic specifications

bar 4-10
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

options

hydraulic specifications

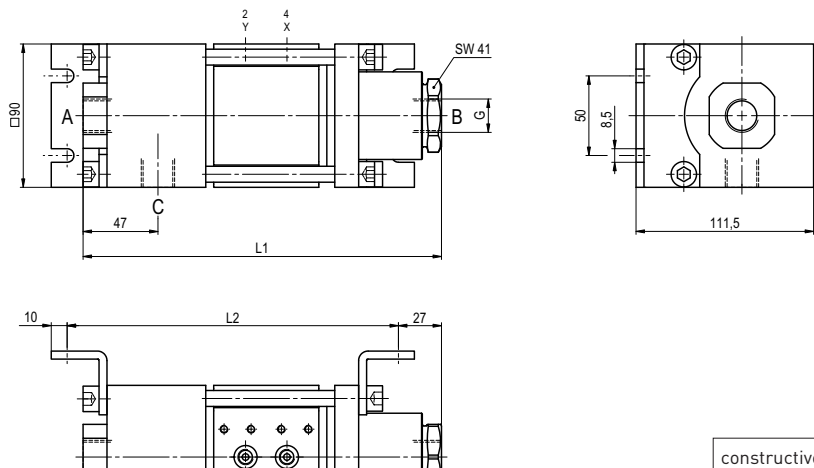
bar 15-30 / 30-60
preferably 4/2 way control valve
X/Y G 1/4 NPT 1/4

options

coax® data sheet - coaxial valve

type VMK-H 15 DR
VFK-H 15 DR

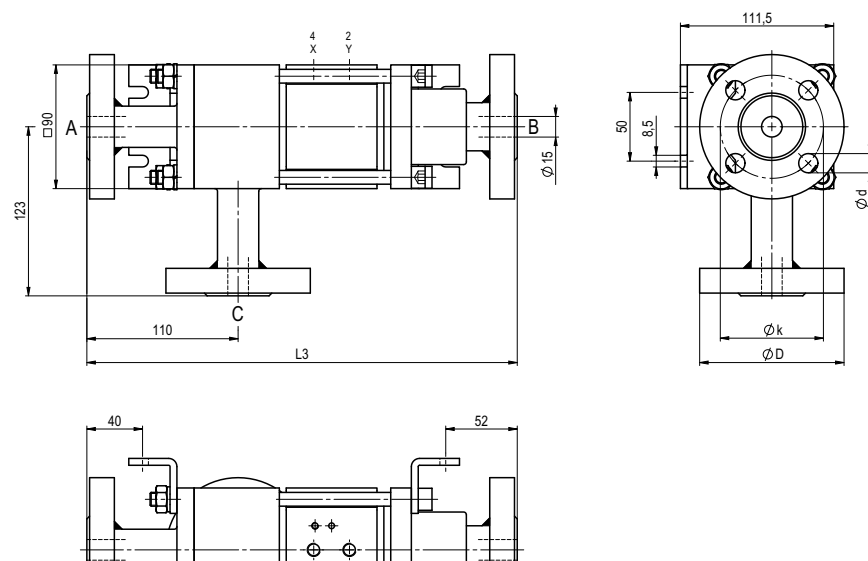
function: **NC**
closed when not energized (A ► B)



| constructive length | L1 | L2 | L3 |
|------------------------------------|-----|-----|-----|
| standard | 225 | 208 | 313 |
| with inductive limit switches | 255 | 238 | 343 |
| with force-feed lubrication nipple | 255 | 238 | 343 |
| with mechanical limit switches | - | - | - |

| flanges PN | DIN | ØD | Øk | Ød |
|------------|-----------|-----|----|----|
| 160 | EN 1092-1 | 105 | 75 | 14 |
| 250 | EN 1092-1 | 130 | 90 | 18 |

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



pneumatic specifications

