

type VMK-H 15 DR
VFK-H 15 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

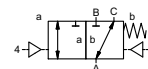
DN 15 mm

thread/flange

valve

normally closed (A ► B)

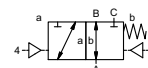
symbol **NC**



valve

normally open (A ► B)

symbol **NO**



operating principle

body material

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 |

valve seat

synthetic materials on metal

seal materials

NBR PTFE, FPM, CR, EPDM

ports

general specifications

options

function

VMK-H threads G 1/2

special threads

pressure range

VFK-H flanges PN 160 / 250

special flanges

bar

0-200

NO

A ⇒ B max. 200 / B ⇒ A max. 100 / A ⇒ C max. 200 / C ⇒ A max. 200

Kv value

m³/h 4.4

vacuum

leak rate

< 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

P₁ ⇔ P₂

pressure side max. 200 bar
vacuum side leak rate upon request

back pressure

P₂ > P₁ see pressure range

media

gaseous - liquid - highly viscous

abrasive media

available

damping

opening by throttles on pilot valve

flow direction

closing see pressure range

switching cycles

1/min 200

switching time

ms opening 50-3000

closing 50-3000

media temperature

°C direct mounted pilot valve 60

remote mounted pilot valve outside

ambient temperature

°C direct mounted pilot valve 50

temperatur range of media max. 160 °C

flush ports

available

leak ports

available

limit switches

available inductive / mechanical upon request

manual override

via pilot valve

approvals

LR/DNV/WAZ

mounting

mounting brackets

weight

kg VMK-H 6.5 VFK-H 7.3

additional equipment

upon request

electrical specifications

options

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%

plug acc. DIN EN 175301-803 form B, 2 positions x180° / 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

options

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

hydraulic specifications

options

bar 15-30 / 30-60

preferably 4/2 way control valve

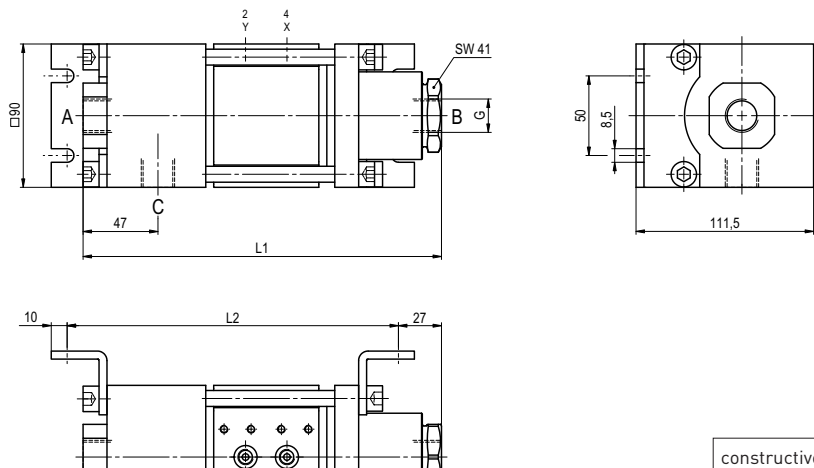
X/Y G 1/4

NPT 1/4

coax® data sheet - coaxial valve

type VMK-H 15 DR
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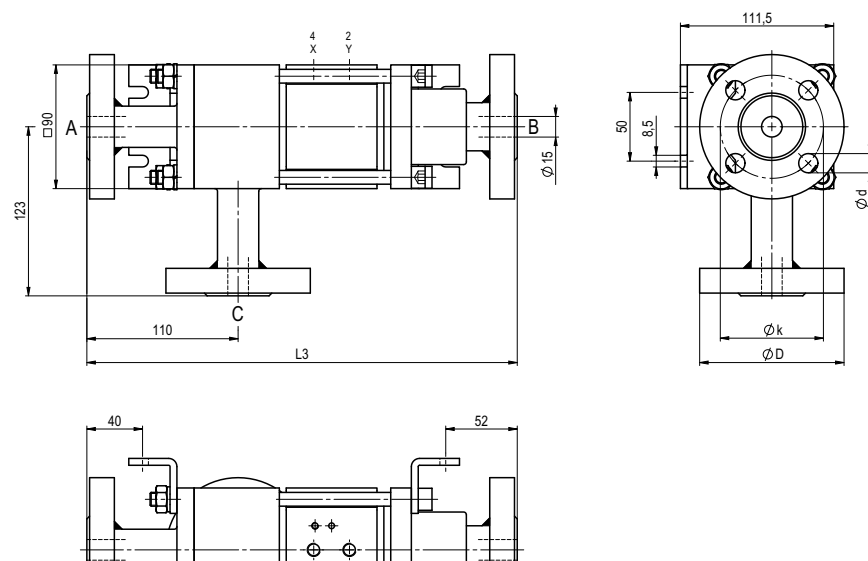
function: **NC**
closed when not energized (A ► B)



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

