

type VMK 25
VFK 25

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
- 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

operating principle

body material

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

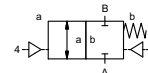
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

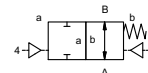
externally controlled

PN 0-100 bar
DN 25 mm
thread/flange

valve normally closed
symbol **NC**



valve normally open
symbol **NO**



pressure balanced, with spring return

- | | |
|------------------------|----------------------------|
| ① brass | ② steel galvanized |
| ③ brass, nickel plated | ⑤ without non-ferr. Metals |
| ④ steel, nickel plated | ⑥ stainless steel |
| ⑦ aluminium | |

synthetic materials on metal

NBR PTFE, FPM, CR, EPDM

general specifications

VMK threads G 1 - G 1 1/2
VFK flanges PN 16 / 40 / 100
NC
bar 0-16 / 0-40 / 0-63 / 0-100

m³/h 13.3
leak rate < 10⁻⁶ mbar•L•s⁻¹
P₁ ⇔ P₂ pressure side max. 100 bar
vacuum side leak rate upon request available (max. 16 bar)
P₂ > P₁ gaseous - liquid - highly viscous - gelatinous - pasty - contaminated

opening by throttles on pilot valve
closing as marked
A ⇔ B as marked
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/DNV/WAZ
mounting brackets
kg VMK 6.7 VFK 9.0 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]
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

bar 4-8
cm³/stroke 18
main valve speed variable by throttle on pilot valve preferably 5/2 way pilot valve
co-ax / Namur ISO 1
2/4 G 1/8 G 1/4

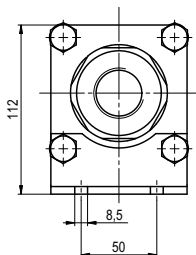
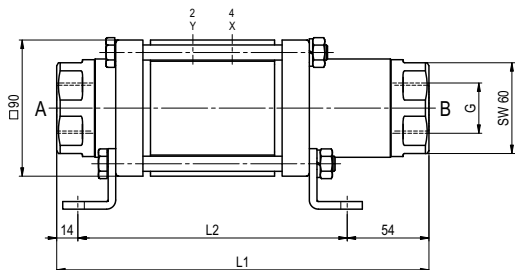
hydraulic specifications

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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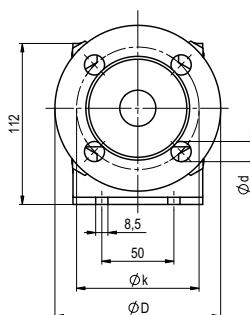
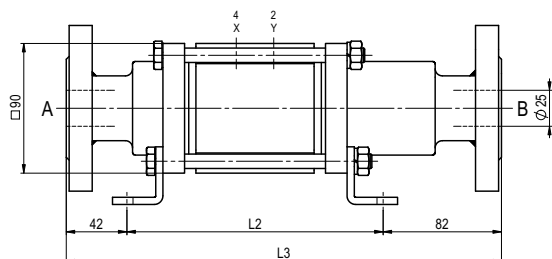
function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	246	178	302
with inductive limit switches	260	192	316
with force-feed lubrication nipple	276	208	332
with mechanical limit switches	270	202	326

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	115	85	14
40	EN 1092-1	115	85	14
100	EN 1092-1	140	100	18

function: **NO**
open when not energized



pneumatic specifications

