

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

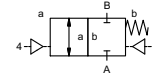
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

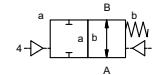
externally controlled

PN 0-200 bar
DN 25 mm
thread/flange

valve normally closed
symbol **NC**



valve normally open
symbol **NO**



pressure balanced, with spring return

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

synthetic materials on metal

NBR PTFE, FPM, CR, EPDM

general specifications

VMK-H threads G 1
VFK-H flanges PN 160 / 250
bar 0-200

m³/h 12.6
leak rate < 10⁻⁶ mbar•L•s⁻¹
P₁ ⇌ P₂ pressure side max. 200 bar
vacuum side leak rate upon request available (max. 16 bar)

P₂ > P₁ gaseous - liquid - highly viscous

opening closing by throttles on pilot valve
A ⇌ B as marked
1/min 200

ms opening 50-3000
closing 50-3000

°C direct mounted pilot valve 60
°C direct mounted pilot valve 50

remote mounted pilot valve outside temperatur range of media max. 160 °C
available
available
inductive / mechanical upon request

via pilot valve
LR/DNV/WAZ
mounting brackets

kg VMK-H 8.7 VFK-H 11.1
upon request

electrical specifications

U_n DC 24 V
U_n AC 230 V 50 Hz
DC 4.8 W
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 24
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

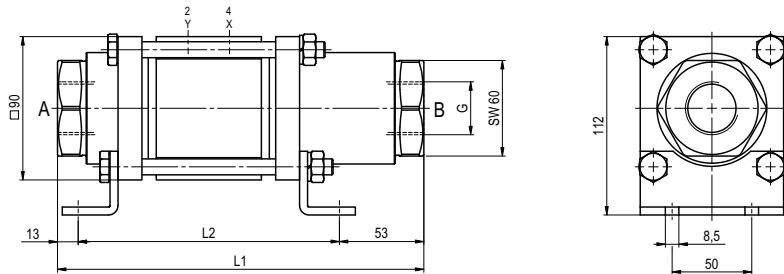
hydraulic specifications

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

coax® data sheet - coaxial valve

type VMK-H 25
VFK-H 25

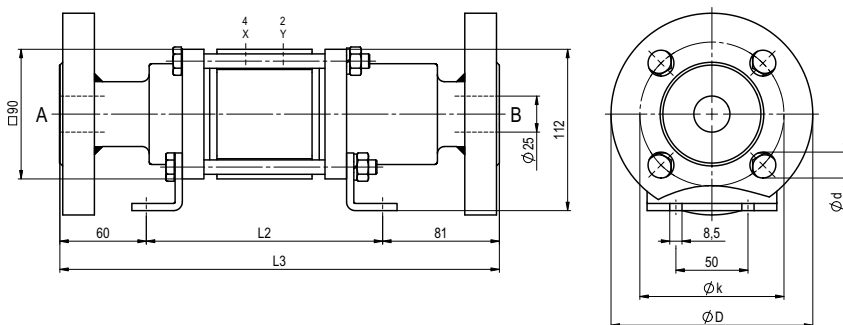
function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	230	164	305
with inductive limit switches	260	194	335
with force-feed lubrication nipple	260	194	335
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



pneumatic specifications

