

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.

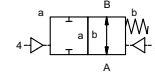
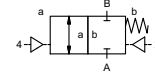
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

externally controlled

PN 0-200 bar
DN 20 mm
thread/flange
valve normally closed
symbol **NC**
valve normally open
symbol **NO**



operating principle
body material

pressure balanced, with spring return
① ② steel galvanized
③ ⑤ without non-ferr. Metals
④ steel, nickel plated ⑥ stainless steel

valve seat

synthetic materials on metal
NBR PTFE, FPM, CR, EPDM

seal materials

ports

general specifications

options

function
pressure range

VMK-H threads G 3/4
VFK-H flanges PN 160 / 250
NC
bar 0-200

special threads
special flanges
NO

Kv value
vacuum
pressure-vacuum

m³/h 7.7
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)

back pressure
media

P₂ > P₁ gaseous - liquid - highly viscous
available

abrasive media
damping

opening closing by throttles on pilot valve
A ⇄ B as marked
1/min 200
ms opening 50-3000
closing 50-3000

flow direction
switching cycles
switching time

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

media temperature
ambient temperature
flush ports
leak ports
limit switches
manual override
approvals
mounting
weight
additional equipment

°C direct mounted pilot valve 60
°C direct mounted pilot valve 50
via pilot valve
LR/DNV/WAZ
mounting brackets
kg VMK-H 6.7 VFK-H 8.7
upon request

nominal voltage

electrical specifications

options

power consumption

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%

special voltage upon request
special voltage upon request
2.5 W (actuation pressure range 4-7 bar)

protection
energized duty rating
connection
optional additional equipment
max. temperature

plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm
M12x1 connector acc. DESINA
illuminated plug with varistor
media 60°C
ambient 50°C
E Ex e II T5 nominal voltage U_n
power consumption

connector acc. VDMA

explosion proof

DC 24 V 3.25 W
AC 230 V 50 Hz 2.90 W

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

pneumatic specifications

options

bar 4-8
cm³/stroke 24
main valve speed variable by throttleson 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

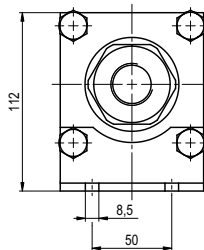
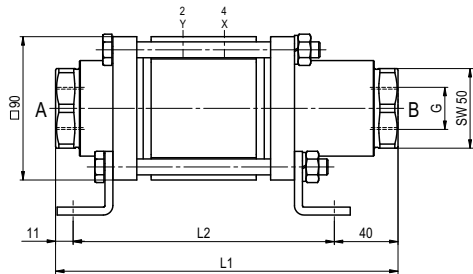
options

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

coax® data sheet - coaxial valve

type VMK-H 20
VFK-H 20

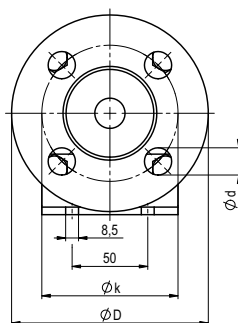
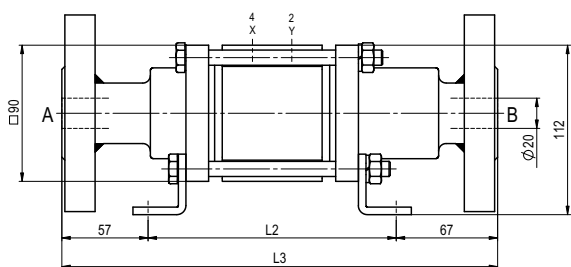
function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	215	164	288
with inductive limit switches	245	194	318
with force-feed lubrication nipple	245	194	318
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	130	90	18
250	EN 1092-1	135	95	18

function: **NO**
open when not energized



pneumatic specifications

