

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.

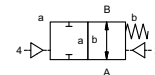
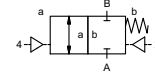
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

externally controlled

PN 0-200 bar
DN 40 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
④ steel, nickel plated
⑤ without non-ferr. Metals
⑥ stainless steel

valve seat

seal materials

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

ports

function
pressure range

general specifications

VMK-H threads G 1 1/2
VFK-H flanges PN 160 / 250
NC
0-200

options

special threads
special flanges
NO

Kv value
vacuum
pressure-vacuum

m³/h
31.0
leak rate
< 10 ⁻⁴ mbar•L•s ⁻¹
P ₁ ⇔ P ₂

back pressure
media

P ₂ > P ₁
gaseous - liquid - highly viscous
available (max. 16 bar)

abrasive media
damping

available
opening
closing
by throttles on pilot valve

flow direction
switching cycles
switching time

A ⇔ B
as marked
1/min
150
ms
opening
100-3000
closing
100-3000

media temperature
ambient temperature
flush ports
leak ports

°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

limit switches
manual override
approvals
mounting
weight
additional equipment

via pilot valve
LR/DNV/WAZ
mounting brackets
kg
VMK-H 11.3 VFK-H 13.6
upon request

nominal voltage

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]

power consumption

protection
energized duty rating
connection
optional
additional equipment
max. temperature

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

explosion proof

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

actuation pressure range

air consumption
cycle speed
control
pilot valve interface
actuator ports

pneumatic specifications

bar
4-8
cm³/stroke
65
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

options

actuation pressure range

control
actuator ports
by media

hydraulic specifications

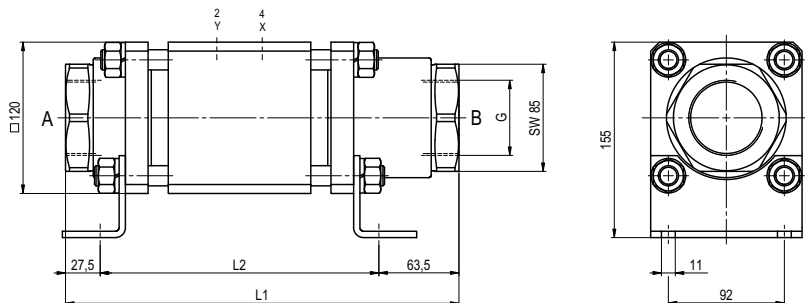
bar
15-30 / 30-60
preferably 4/2 way control valve
X/Y
G 1/4
NPT 1/4

options

coax® data sheet - coaxial valve

type VMK-H 40
VFK-H 40

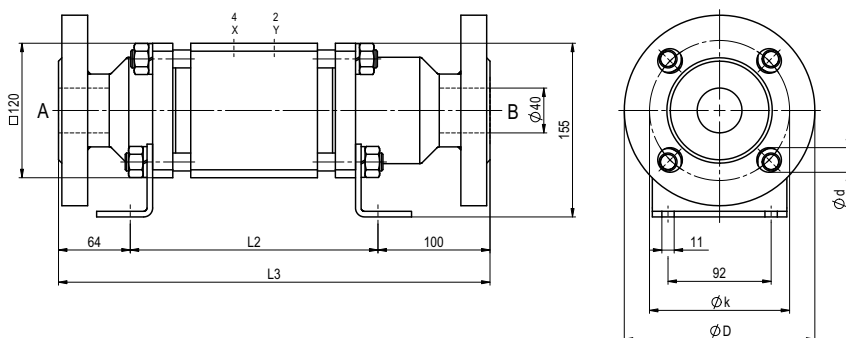
function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	312	221	385
with inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	170	125	22
250	EN 1092-1	185	135	26

function: **NO**
open when not energized



pneumatic specifications

