

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

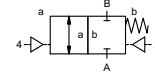
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

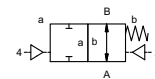
externally controlled

PN 0-100 bar
DN 20 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 3/4 - G 1 1/4
VFK flanges PN 16 / 40 / 100
NC
bar 0-16 / 0-40 / 0-63 / 0-100

m³/h 8.8
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 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

via pilot valve

kg VMK 4.7 VFK 6.7

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%

M12x1 connector acc. DESINA 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 11
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

options

special threads
special flanges
NO
> 100 bar upon request

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

bi-directional upon request

LR/DNV/WAZ
mounting brackets
upon request

options

special voltage upon request
special voltage upon request
2.5 W [actuation pressure range 4-7 bar]

connector acc. VDMA

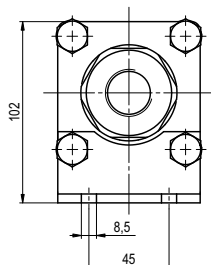
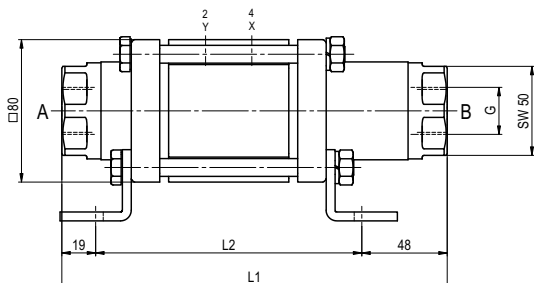
options

options

coax® data sheet - coaxial valve

type VMK 20
VFK 20

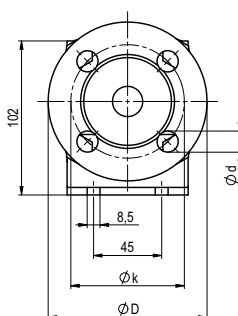
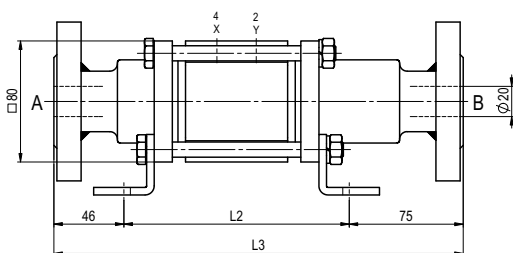
function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	216	149	270
with inductive limit switches	235	168	289
with force-feed lubrication nipple	254	187	308
with mechanical limit switches	250	183	304

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-1	105	75	14
100	EN 1092-1	130	90	18

function: **NO**
open when not energized



pneumatic specifications

