

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

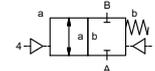
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

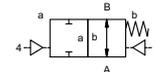
externally controlled

PN 0-100 bar
DN 40 mm
thread/flange

valve normally closed
symbol **NC**



valve normally open
symbol **NO**



pressure balanced, with spring return

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

synthetic materials on metal

NBR	PTFE, FPM, CR, EPDM
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general specifications

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

options

special threads
special flanges
NO
> 100 bar upon request

m³/h	31.0
leak rate	< 10 ⁻⁶ mbar•L•s ⁻¹
P ₁ ⇄ P ₂	pressure side max. 100 bar
P ₂ > P ₁	vacuum side leak rate upon request
	available (max. 16 bar)
	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated
	available

opening	
closing	by throttles on pilot valve
A ⇄ B	as marked
1/min	150
ms	opening 100-3000
	closing 100-3000
°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 11.2 VFK 13.6
	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

options

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

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	65	
	main valve speed variable by throttleson pilot valve	
	preferably 5/2 way pilot valve	
	co-ax / Namur	
2/4	G 1/8	ISO 1
		G 1/4

options

hydraulic specifications

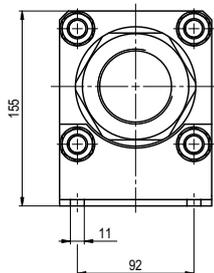
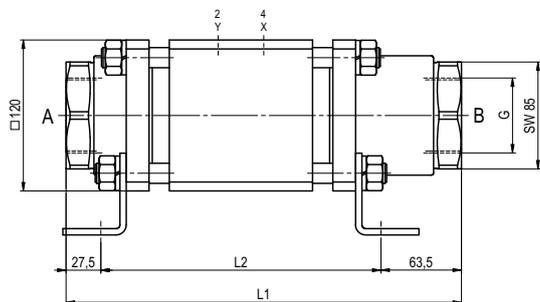
bar	15-30 / 30-60	
	preferably 4/2 way control valve	
X/Y	G 1/4	NPT 1/4

options

coax® data sheet - coaxial valve

type VMK 40
VFK 40

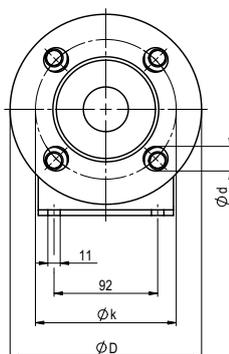
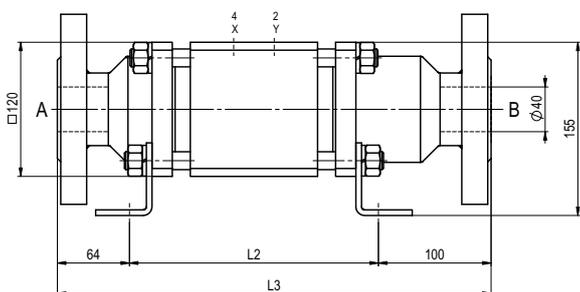
function: **NC**
closed when not energized



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
100	EN 1092-1	170	125	22

function: **NO**
open when not energized



pneumatic specifications

