

type VMK 15 DR
VFK 15 DR

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
- inlet pressure at A, B or C
- 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

3/2 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

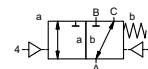
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

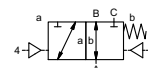
externally controlled

PN 0-100 bar
DN 15 mm
thread/flange

valve
normally closed (A ► B)
symbol **NC**



valve
normally open (A ► B)
symbol **NO**



pressure balanced, with spring return, intersecting switch-over

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

synthetic materials on metal

NBR PTFE, FPM, CR, EPDM

general specifications

VMK	threads G 3/8 - G 3/4	options special threads
VFK	flanges PN 16 / 40 / 100	special flanges
	NC	NO
bar	0-16 / 0-40 / 0-63 / 0-100	
	A ⇨ B max. 100 / B ⇨ A max. 16 / A ⇨ C max. 100 / C ⇨ A max. 100	
m ³ /h	5.6	
leak rate		< 10 ⁻⁶ mbar•L•s ⁻¹
P ₁ ⇨ P ₂		pressure side max. 100 bar vacuum side leak rate upon request
P ₂ > P ₁	see pressure range gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	available
opening		
closing	by throttles on pilot valve	
	see pressure range	
1/min	200	
ms	opening 50-3000 closing 50-3000	
°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 / mechanical upon request
	via pilot valve	
		LR/DNV/WAZ
		mounting brackets
kg	VMK 4.5 VFK 5.3	upon request

electrical specifications

U _n	DC 24 V	options 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]
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	options
cm ³ /stroke	11	
	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

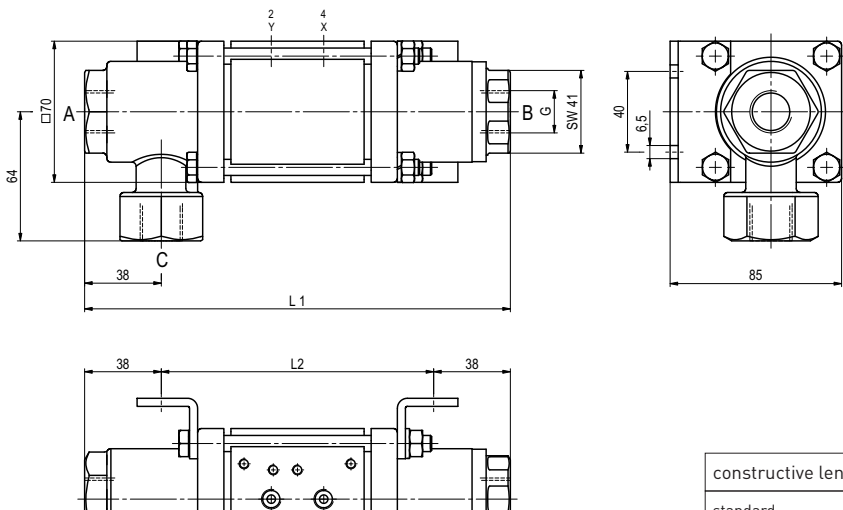
hydraulic specifications

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

coax® data sheet - coaxial valve

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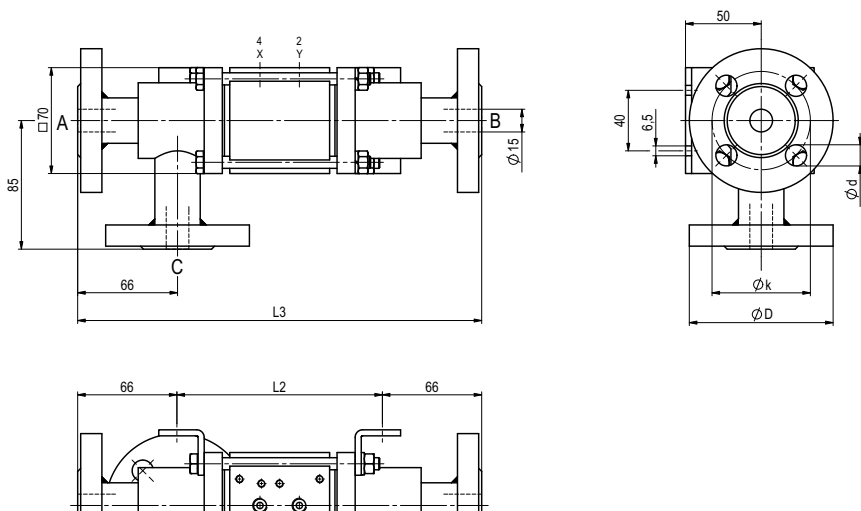
function: **NC**
closed when not energized (A ► B)



constructive length	L1	L2	L3
standard	211	135	267
with inductive limit switches	237	161	293
with force-feed lubrication nipple	244	168	300
with mechanical limit switches	237	161	293

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	95	65	14
40	EN 1092-1	95	65	14
100	EN 1092-1	105	75	14

function: **NO**
open when not energized (A ► B)



pneumatic specifications

