

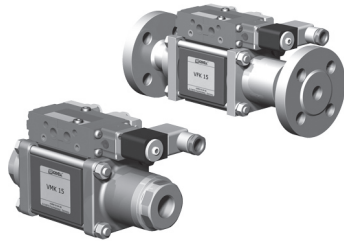
# coaxial valve

type **VMK 15**  
**VFK 15**

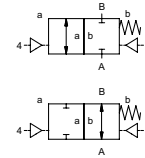
5-VMK 15

5-VFK 15

valve type with pilot valve



**2/2 way valve** externally controlled  
**pressure range** PN 0-100 bar  
**orifice** DN 15 mm  
**connection** thread/flange  
**function** valve normally closed symbol **NC**  
 valve normally open symbol **NO**



**△** Above stated body materials refer to the valve port connections that get in contact with the media only!

**design** pressure balanced, with spring return  
**body materials** ① brass ② steel, galvanized  
 ③ brass, nickel plated ⑤ without non-ferr. metals  
 ④ steel, nickel plated ⑥ stainless steel  
**valve seat** synthetic resin on metal  
**seal materials** NBR PTFE, FPM, CR, EPDM

**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
- low wattage coil, actuation pressure range 4-7 bar
- pilot valve type

**details needed for hydraulic actuation**

- actuation pressure range min/max
- hydraulic control valve function

		general specifications	options
<b>ports</b>	VMK	threads G 3/8 - G 3/4	special threads
	VFK	flanges PN 16/40/100	special flanges
<b>function</b>		NC	NO
<b>pressure range</b>	bar	0-16/0-40/0-64/0-100	> 100 bar upon request
<b>Kv value</b>	m <sup>3</sup> /h	5,7	
<b>vacuum</b>	leak rate		< 10 <sup>-6</sup> mbar·l/s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇔ P <sub>2</sub>		pressure side max. 100 bar vacuum side leak rate upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>		available (max. 16 bar)
<b>media</b>		gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
<b>abrasive media</b>			version available
<b>damping</b>	opening		
	closing	by throttles on pilot valve	
<b>flow direction</b>	A ⇔ B	as marked	bi-directional upon request
<b>switching cycles</b>	1/min	200	
<b>switching time</b>	ms	opening 50-3000 closing 50-3000	
<b>media temperature</b>	°C	direct mounted pilot valve 60	remote mounted pilot valve outside temper-
<b>ambient temperature</b>	°C	direct mounted pilot valve 50	ature range of media max.160°C
<b>flush ports</b>			available
<b>leak ports</b>			available
<b>limit switches</b>			inductive/mechanical upon request
<b>manual override</b>		via pilot valve	
<b>approvals</b>			LR/GL/WAZ
<b>mounting</b>			mounting brackets
<b>weight</b>	kg	VMK 3,4 VFK 5,0	
<b>additional equipment</b>			upon request

**electrical specifications**

		options
<b>nominal voltage</b>	U <sub>n</sub>	DC 24V special voltage upon request
	U <sub>n</sub>	AC 230V 50 Hz special voltage upon request
<b>power consumption</b>	DC	4,8 W 2,5 W
	AC	pick up 11,0 VA holding 8,5 VA
<b>protection</b>	IP 65 (P54)	acc. DIN 40 050
<b>energized duty rating</b>	ED	100%
<b>connection</b>		plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm
<b>additional equipment</b>		illuminated plug with varistor
<b>optional</b>	M12x1	connector acc. DESINA connector acc. VDMA
<b>max. temperature</b>	media	60°C
	ambient	50°C
<b>explosion proof</b>	EEx m II T5	nominal voltage U <sub>n</sub> direct current 24 V 3,25 W
		power consumption alternating current 230 V 50 Hz 2,90 W

**pneumatic specifications**

		options
<b>actuation pressure range</b>	bar	4-10
<b>air consumption</b>	cm <sup>3</sup> /stroke	11
<b>cycle speed</b>		main valve speed variable by throttles on pilot valve
<b>control</b>		preferably 5/2-way pilot valve
<b>pilot valve interface</b>	co-ax / NAMUR	ISO 1
<b>actuator ports</b>	2/4	G 1/4

**hydraulic specifications**

		options
<b>actuation pressure range</b>	bar	10-30 / 30-60
<b>control</b>		preferably 4/2-way control valve
<b>actuator ports</b>	X/Y	G 1/4 NPT 1/4

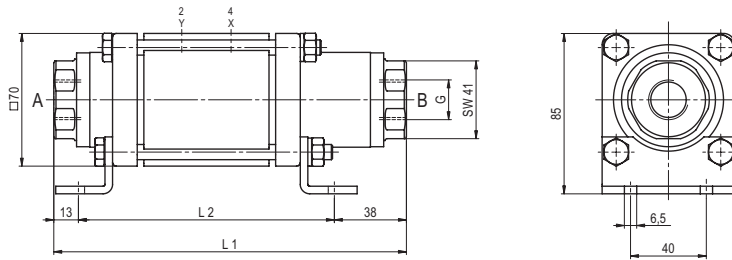
**⚠** The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

**⚠** 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.

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

# type VMK 15

function: **NC**  
closed when not energized

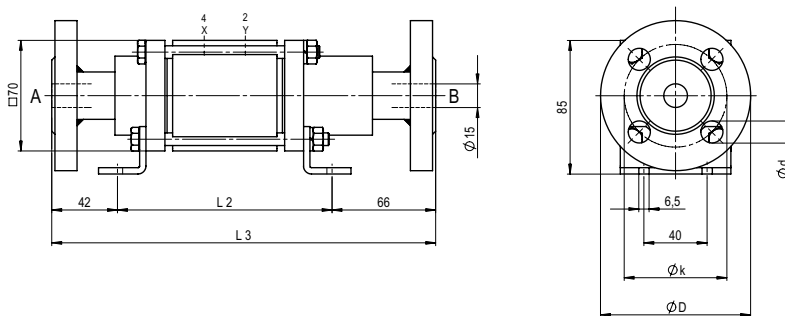


constructive length	L1	L2	L3
standard	186	135	243
with 1/2 inductive limit switches	212	161	269
with force-feed lubrication nipple	219	168	276
with mechanical limit switches	212	161	269

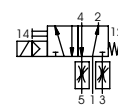
flanges PN	DIN	øD	øk	ød
16	2633	95	65	14
40	2635	95	65	14
100	2637	105	75	14

# type VFK 15

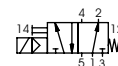
function: **NO**  
open when not energized



### pneumatic actuation (separately)



5/2-way-pilot valve  
flow rate 700 l/min  
pressure range 3-10 bar G 1/8



5/2-way-pilot valve ISO 1  
flow rate 700 l/min  
pressure range 3-10 bar G 1/4