

5-VMK 15
5-VFK 15

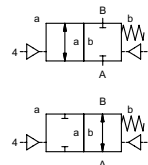
valve type with pilot valve

coaxial valve

type VMK 15 VFK 15



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
 ⑦ aluminium
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

⚠ 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

general specifications

ports	VMK threads G 3/8 - G 3/4	options	special threads
	VFK flanges PN 16 / 40 / 100		special flanges
function	NC		NO
pressure range	bar 0-16 / 0-40 / 0-64 / 0-100		> 100 bar upon request
Kv value	m³/h 5,7		
leak rate			< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P ₁ ⇌ P ₂		pressure side max. 100 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁		available (max. 16 bar)
media	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated		
abrasive media			available
damping	opening by throttles on pilot valve		
	closing as marked		bi-directional upon request
flow direction	A ⇌ B		
switching cycles	1/min 200		
switching time	ms opening 50-3000		
	closing 50-3000		
media temperature	°C direct mounted pilot valve 60		remote mounted pilot valve outside temperature range of media max. 160 °C
ambient temperature	°C direct mounted pilot valve 50		
flush ports			available
leak ports			available
limit switches			inductive / mechanical upon request
manual override	via pilot valve		
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg VMK 3,4 VFK 5,0		
additional equipment			upon request

electrical specifications

nominal voltage	U _n DC 24 V	options	special voltage upon request
	U _n AC 230 V 50 Hz		special voltage upon request
power consumption	DC 4,8 W		2,5 W
	AC pick up 11,0 VA holding 8,5 VA		
protection	IP65 (P54) acc. DIN 40050		
energized duty rating	ED 100%		
connection	plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm		
optional	M12x1 connector acc. DESINA		connector acc. VDMA
additional equipment	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

pneumatic specifications

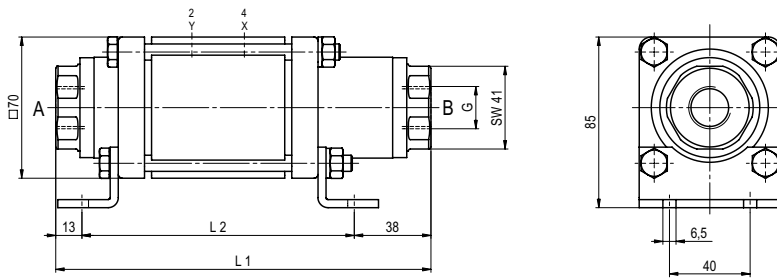
actuation pressure range	bar 4-10	options	
air consumption	cm³/stroke 11		
cycle speed			main valve speed variable by throttles on pilot valve
control			preferably 5/2 way pilot valve
pilot valve interface			co-ax / Namur ISO 1
actuator ports	2/4 G 1/8		G 1/4

hydraulic specifications

actuation pressure range	bar 15-30 / 30-60	options	
control			preferably 4/2 way control valve
actuator ports	X/Y G 1/4		NPT 1/4
by media			

type VMK 15

function: **NC**
closed when not energized

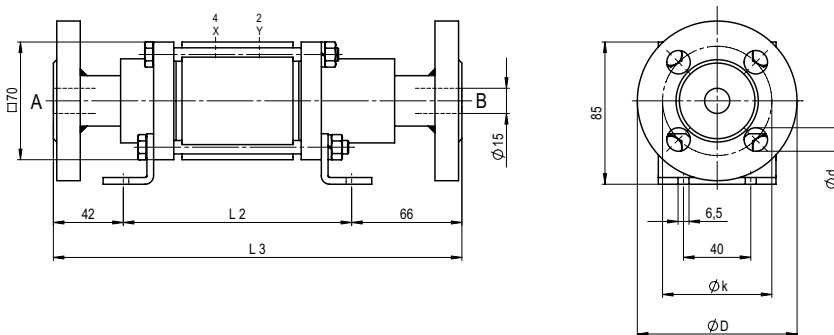


constructive length	L1	L2	L3
standard	186	135	243
with inductive limit switches	212	161	269
with force-feed lubrication nipple	219	168	276
with mechanical limit switches	212	161	269

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

type VFK 15

function: **NO**
open when not energized



pneumatic specifications

