

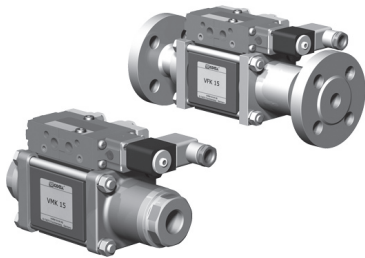
5-VMK 15**5-VFK 15**

valve type with pilot valve

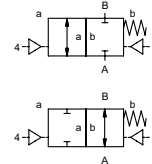
coaxial valve


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	<div> <div>① brass</div> <div>③ brass, nickel plated</div> <div>④ steel, nickel plated</div> </div> <div> <div>② steel, galvanized</div> <div>⑤ without non-ferr. metals</div> <div>⑥ stainless steel</div> </div>
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.

general specifications		options
ports	VMK threads G 3/8 - G 3/4 VFK flanges PN 16/40/100	special threads 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
vacuum		pressure side max. 100 bar vacuum side leak rate upon request
pressure-vacuum	P ₁ ⇄ P ₂	available (max. 16 bar)
back pressure	P ₂ > P ₁	
media	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
abrasive media		version available
damping	opening closing by throttles on pilot valve	
flow direction	A ⇄ B as marked	bi-directional upon request
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		options
nominal voltage	U _n DC 24V	special voltage upon request
	U _n AC 230V 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	IP 65 (P54) acc. DIN 40 050	
energized duty rating	ED 100%	
connection	plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm	
additional equipment	illuminated plug with varistor	
optional	M12x1 connector acc. DESINA	connector acc. VDMA
media	60°C	
ambient	50°C	
explosion proof	EEx m II T5 nominal voltage U _n	direct current 24 V 3,25 W
	power consumption	alternating current 230 V 50 Hz 2,90 W

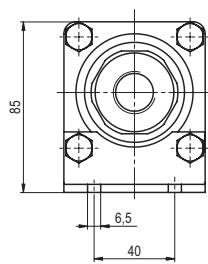
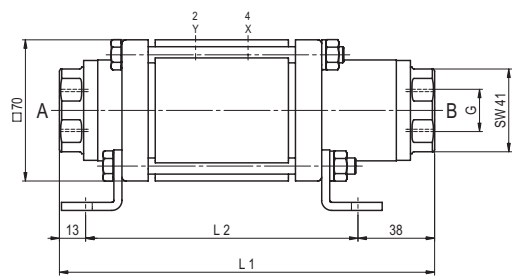
pneumatic specifications		options
actuation pressure range	bar 4-10	
air consumption	cm³/stroke 11	
cycle speed	main valve speed variable by throttles on pilot valve	
control	preferably 5/2-way pilot valve	
pilot valve interface	co-ax / NAMUR	ISO 1
actuator ports	2/4 G 1/8	G 1/4

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

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

type **VMK 15**

function: **NC**
closed when not energized

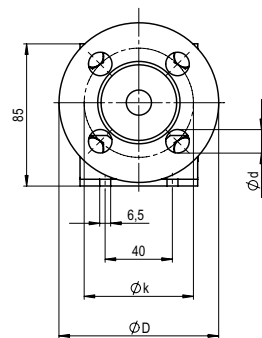
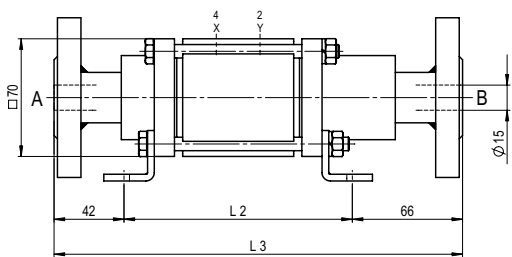


constructive length	L ₁	L ₂	L ₃
standard	186	135	243
with 1/2 inductive limit switches	212	161	269
with force-feed lubrication nipple	219	168	276
with mechanical limit switches	212	161	269

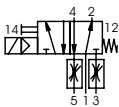
flanges PN	DIN	øD	øk	ød
16	2633	95	65	14
40	2635	95	65	14
100	2637	105	75	14

type **VFK 15**

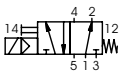
function: **NO**
open when not energized



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

The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

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