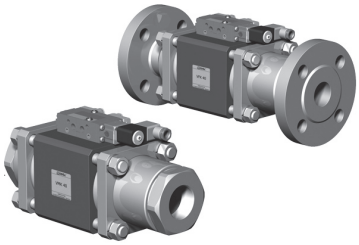
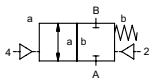
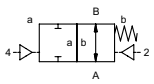
coaxial valve

5-VMK 40
5-VFK 40
valve type with pilot valve

type **VMK 40**
VFK 40



2/2 way valve	**externally controlled**	
pressure range	PN 0-100 bar	
orifice	DN 40 mm	
connection	thread/flange	
function	valve normally closed symbol **NC**	
	valve normally open symbol **NO**	

design	pressure balanced, with spring return	
body materials	①	② steel, galvanized
	③	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

⚠ 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
- 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
ports	VMK	threads G 1 1/2 - G 2	special threads
	VFK	flanges PN 100	special flanges
function		NC	NO
pressure range	bar	0-64/0-100	> 100 bar
Kv value	m³/h	31,0	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		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			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ⇨ B	as marked	bi-directional upon request
switching cycles	1/min	150	
switching time	ms	opening 100-3000 closing 100-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-
ambient temperature	°C	direct mounted pilot valve 50	rature range of media max.160°C
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 11,3 VFK 13,6	
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
max. temperature	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

⚠ 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.

pneumatic specifications

			options
actuation pressure range	bar	4-10	
air consumption	cm³/stroke	65	
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

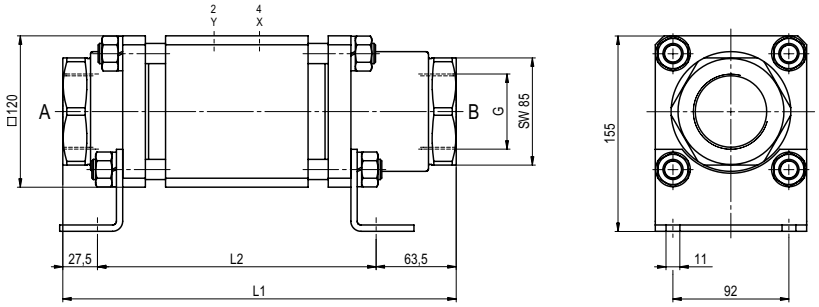
hydraulic specifications

			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 40**

function: **NC**
closed when not energized

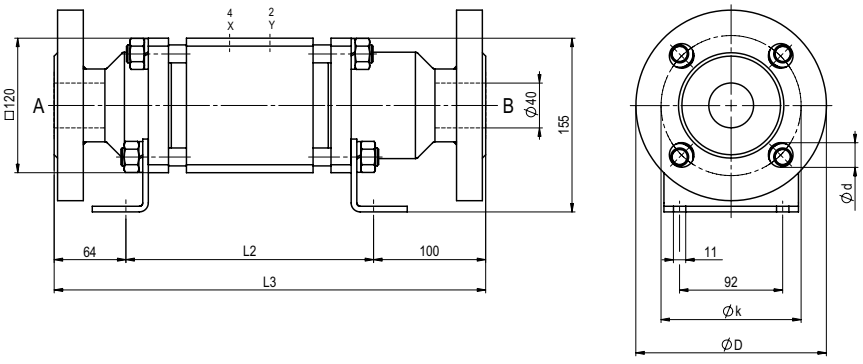


constructive length	L_1	L_2	L_3
standard	312	221	385
with 1/2 inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

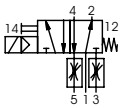
flanges PN	DIN	øD	øk	ød
100	2637	170	125	22

type **VFK 40**

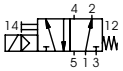
function: **NO**
open when not energized



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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