

5-VMK 32
5-VFK 32

valve type with pilot valve



coaxial valve

type VMK 32
VFK 32
2/2 way valve externally controlled

pressure range PN 0-100 bar

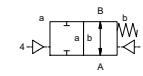
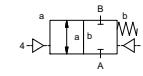
orifice DN 32 mm

connection thread/flange

function valve

normally closed symbol NC

valve normally open symbol NO



design pressure balanced, with spring return

body materials ① brass

③ brass, nickel plated

④ steel, nickel plated

② steel, galvanized

⑤ without non-ferr. metals

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

ports	VMK threads G 1 1/4 - G 1 1/2	special threads
	VFK flanges PN 16 / 40 / 100	special flanges
function	NC	NO
pressure range	bar 0-16 / 0-40 / 0-64 / 0-100	

K _v value	m ³ /h 20,0	
vacuum	leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ⇌ P ₂	pressure side max. 100 bar

back pressure	P ₂ > P ₁	vacuum side leak rate upon request
media	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	available (max. 16 bar)

abrasive media	opening	version available
damping	closing	

flow direction	A ⇌ B as marked	bi-directional upon request
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switching cycles	1/min 150	
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switching time	ms opening 100-3000 closing 100-3000	
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media temperature	°C direct mounted pilot valve 60	remote mounted pilot valve outside temperature range of media max. 160 °C
ambient temperature	direct mounted pilot valve 50	available

flush ports		available
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leak ports		inductive / mechanical upon request
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limit switches		
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manual override	via pilot valve	
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approvals		LR/GL/WAZ
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mounting		mounting brackets
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weight	kg VMK 7,8 VFK 11,6	
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additional equipment		upon request
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options

special threads

special flanges

NO

electrical specifications

nominal voltage	U _n DC 24 V	special voltage upon request
	U _n AC 230 V 50 Hz	special voltage upon request

power consumption	DC 4,8 W	2,5 W
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protection	AC pick up 11,0 VA holding 8,5 VA	
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energized duty rating	IP65 (P54) acc. DIN 40050	
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connection	ED 100%	
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optional	plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm	
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additional equipment	M12x1 connector acc. DESINA	connector acc. VDMA
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max. temperature	illuminated plug with varistor	
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media	60°C	
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ambient	50°C	
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explosion proof	E Ex e II T5 nominal voltage U _n	DC 24 V 3,25 W
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	power consumption	AC 230 V 50 Hz 2,90 W
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options

special voltage upon request

special voltage upon request

2,5 W

pneumatic specifications

actuation pressure range	bar 4-10	
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air consumption	cm ³ /stroke 23	
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cycle speed	main valve speed variable by throttles on pilot valve	
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control	preferably 5/2 way pilot valve	
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pilot valve interface	co-ax / Namur	ISO 1
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actuator ports	G 1/8	G 1/4
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options

ISO 1

G 1/4

hydraulic specifications

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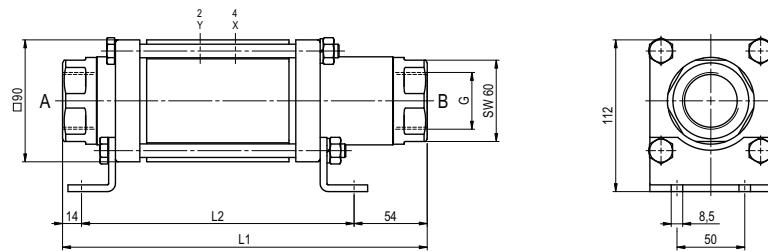
options

NPT 1/4

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

type VMK 32

function: **NC**
closed when not energized

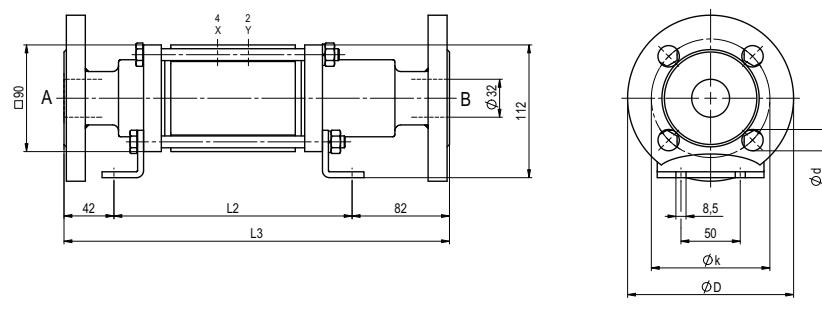


constructive length	L ₁	L ₂	L ₃
standard	269	201	325
with 1/2 inductive limit switches	276	208	332
with force-feed lubrication nipple	306	238	362
with mechanical limit switches	304	236	360

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	140	100	18
40	EN 1092-1	140	100	18
100	EN 1092-1	155	110	22

type VFK 32

function: **NO**
open when not energized



pneumatic actuation

