

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

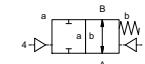
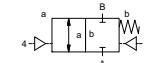
orifice DN 40 mm

connection thread/flange

function valve

normally closed symbol NC

valve normally open symbol NO



design pressure balanced, with spring return

body materials

①

③

④ steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR

② steel, galvanized

⑤ without non-ferr. metals

⑥ stainless steel

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 1/2 - G 2	special threads
	VFK flanges PN 100	special flanges
function	NC	NO
pressure range	bar 0-64 / 0-100	> 100 bar

K _v value	m ³ /h 31,0	
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		version available
damping	opening	

flow direction	closing by throttles on pilot valve	bi-directional upon request
switching cycles	A ⇌ B as marked	

switching time	1/min 150	
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media temperature	ms opening 100-3000 closing 100-3000	
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ambient temperature	°C direct mounted pilot valve 60	remote mounted pilot valve outside temperature range of media max. 160 °C
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flush ports	direct mounted pilot valve 50	available
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leak ports		available
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limit switches		inductive / mechanical upon request
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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 11,2 VFK 13,6	
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additional equipment		upon request
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options

special threads

special flanges

NO

> 100 bar

< 10⁻⁶ mbar·l·s⁻¹

pressure side max. 100 bar

vacuum side leak rate upon request

available (max. 16 bar)

version available

bi-directional upon request

remote mounted pilot valve outside temperature range of media max. 160 °C

available

inductive / mechanical upon request

LR/GL/WAZ

mounting brackets

upon request

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

protection	AC pick up 11.0 VA holding 8.5 VA	
energized duty rating	IP65 (P54) acc. DIN 40050	

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

< 10⁻⁶ mbar·l·s⁻¹

pressure side max. 100 bar

vacuum side leak rate upon request

available (max. 16 bar)

version available

bi-directional upon request

remote mounted pilot valve outside temperature range of media max. 160 °C

available

inductive / mechanical upon request

LR/GL/WAZ

mounting brackets

upon request

pneumatic specifications

actuation pressure range	bar 4-10	
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air consumption	cm ³ /stroke 65	
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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	2/4	G 1/8
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options

main valve speed variable by throttles on pilot valve

preferably 5/2 way pilot valve

co-ax / Namur

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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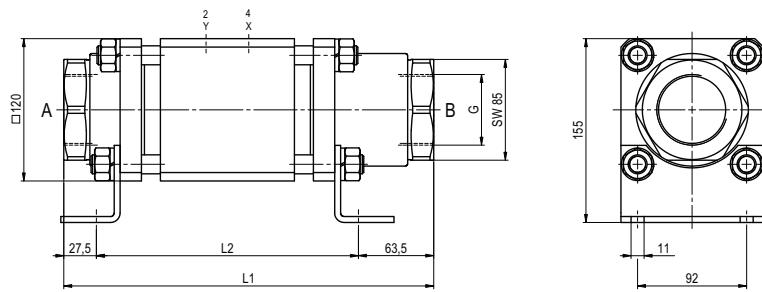
actuator ports	X/Y	NPT 1/4
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options

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

type VMK 40

function: **NC**
closed when not energized

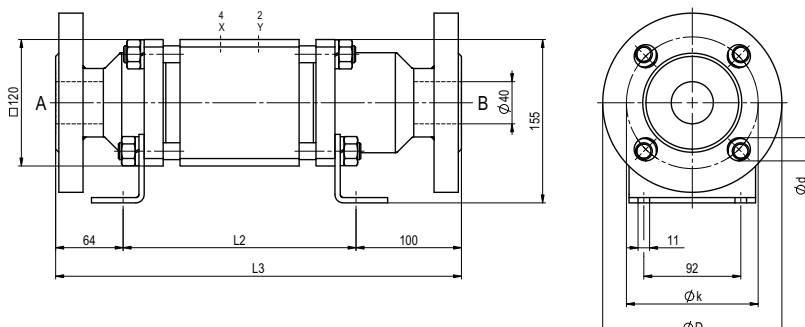


constructive length	L ₁	L ₂	L ₃
standard	312	221	385
with 1/2 inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
100	EN 1092-1	170	125	22

type VFK 40

function: **NO**
open when not energized



pneumatic actuation

