

coaxial valve

5-VMK 50

5-VFK 50

valve type with pilot valve



type VMK 50

VFK 50

2/2 way valve externally controlled

pressure range PN 0-100 bar

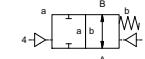
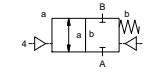
orifice DN 50 mm

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

valve seat

seal materials

synthetic resin on metal

NBR

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 2	special threads
	VFK flanges PN 64 / 100	special flanges
function	NC	NO
pressure range	bar 0-64 / 0-100	> 100 bar
Kv value	m³/h 43,0	
vacuum	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		version available
damping		
flow direction	opening	
switching cycles	closing by throttles on pilot valve	bi-directional upon request
switching time	1/min 100	
media temperature	ms opening 150-3000 closing 150-3000	remote mounted pilot valve outside temperature range of media max. 160 °C
ambient temperature	°C direct mounted pilot valve 60	
flush ports	direct mounted pilot valve 50	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 12,3 VFK 18,7	upon request
additional equipment		

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
	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	
max. temperature	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	
air consumption	cm³/stroke 65	
	main valve speed variable by throttles on pilot valve	
cycle speed	preferably 5/2 way pilot valve	
control	co-ax / Namur	ISO 1
pilot valve interface	2/4	G 1/4
actuator ports		G 1/4

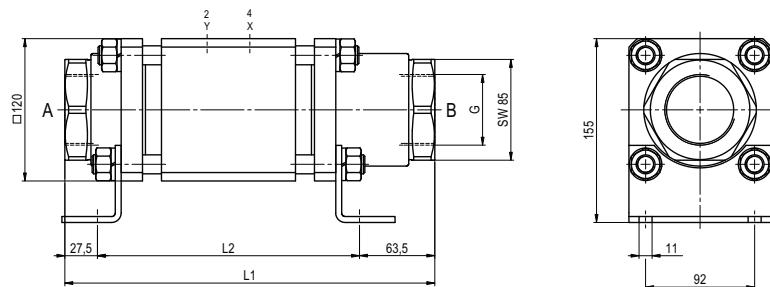
hydraulic specifications

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 50

function: **NC**
closed when not energized

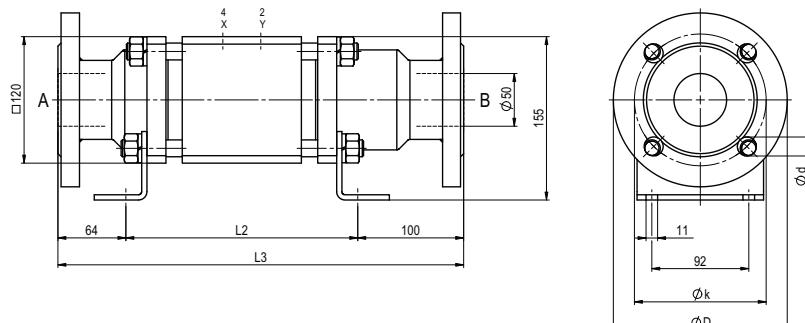


constructive length	L ₁	L ₂	L ₃
standard	312	221	385
with 1/2 inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
64	EN 1092-1	180	135	22
100	EN 1092-1	195	145	26

type VFK 50

function: **NO**
open when not energized



pneumatic actuation

