

coaxial valve

type VMK 10

5-VMK 10

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-100 bar

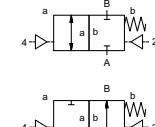
orifice DN 10 mm

connection thread

function valve

normally closed symbol NC

valve normally open symbol NO



design pressure balanced, with spring return

body materials

- ① brass
- ②
- ③ brass, nickel plated
- ④
- ⑤
- 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 1/4 - G 3/4	options
function	NC	NO	special threads
pressure range	bar 0-16 / 0-40 / 0-64 / 0-100		
Kv value	m³/h 2,5 (> 64 bar = 2,1)		
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		upon request	
damping			
flow direction	opening		
switching cycles	closing by throttles on pilot valve		
switching time	A → B as marked	bi-directional upon request	
1/min	680		
ms	opening 30-3000		
	closing 50-3000		
media temperature	°C direct mounted pilot valve 60	remote mounted pilot valve outside	
ambient temperature	°C direct mounted pilot valve 50	temperatur range of media max. 160 °C	
flush ports			
leak ports			
limit switches		inductive	
manual override			
approvals	via pilot valve	LR/GL/WAZ	
mounting		mounting brackets	
weight	kg VMK 1,7		upon request
additional equipment			

electrical specifications

nominal voltage	U _n DC 24 V	options
	U _n AC 230 V 50 Hz	special voltage upon request
power consumption	DC 4,8 W	special voltage upon request
	AC pick up 11.0 VA holding 8,5 VA	2,5 W
protection	IP65 (P54)	acc. DIN 40050
energized duty rating	ED 100%	acc. DIN 40050
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	options
air consumption	cm³/stroke 2	
cycle speed		main valve speed variable by throttles on pilot valve
control		preferably 5/2 way pilot valve
pilot valve interface	co-ax	NAMUR acc. VDI / VDE 3845
actuator ports	2/4 G 1/8	

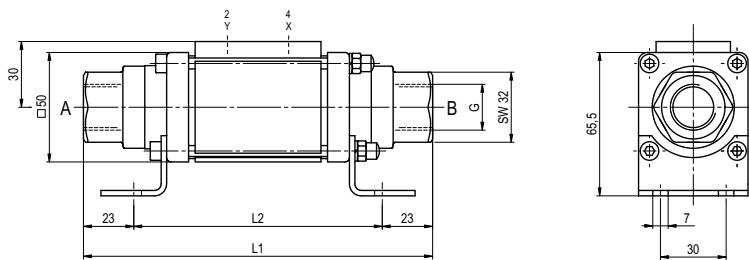
hydraulic specifications

actuation pressure range	bar 4-10	options
control	preferably 4/2 way control valve	
actuator ports	X/Y G 1/8	

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

type VMK 10

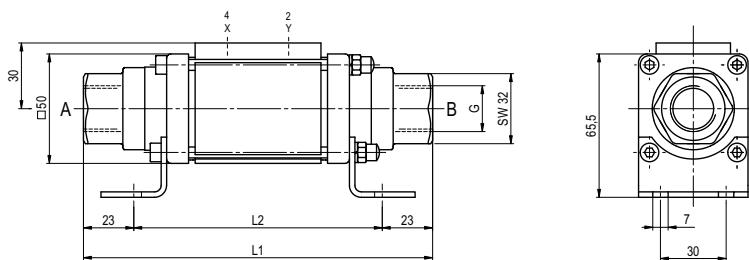
function: **NC**
closed when not energized



constructive length	L1	L2 (0-64 bar)	L2 (> 64 bar)
standard	159,5	113,5	120,5
with inductive limit switches	179,5	133,5	140,5

type VMK 10

function: **NO**
open when not energized



pneumatic specifications

