

## coaxial valve type VMK 10 DR

#### 5-VMK 10 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-100 bar orifice DN 10 mm

connection thread function valve

normally closed (A ►B)

symbol NC

normally open (A ►B)

symbol NO





Above stated body materials refer to the valve port connections that get in contact with the media only!

pressure balanced, with spring return, intersecting switch-over

1) brass

2

③ brass, nickel plated

(5)

(4)

6 stainless steel

body materials

valve seat synthetic resin on metal

seal materials NBR

PTFE, FPM, CR, EPDM

#### details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- media
- media temperature
- ambient temperaturetype of actuation

#### details needed for pneumatic actuation

- nominal voltagetype 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

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.

	general	specifications	options	
ports	VMK	threads G 1/4 - G 3/4	special threads	
function		NC	NO	
pressure range	bar	0-16 / 0-40 / 0-64 / 0-100 A ⇒ B max. 100 / B ⇒ A max. 16 / A ⇒ C max. 100 / C ⇒ A max. 64		
Kv value	m³/h	2,5 (> 64 bar = 2,1)		
vacuum	leak rate		< 10 <sup>-6</sup> mbar•l•s <sup>-1</sup>	
pressure-vacuum	P₁⇔ P₂		pressure side max. 100 bar vacuum side leak rate upon request	
back pressure	P <sub>2</sub> > P <sub>1</sub>	see pressure range		
media		gaseous - liquid - highly viscous - gela- tinous - pasty - contaminated		
abrasive media		. ,	upon request	
damping	opening			
	closing	by throttles on pilot valve		
flow direction		see pressure range		
switching cycles	1/min	680		
switching time	ms opening 30-3000 closing 50-3000			
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-	
ambient temperature	°C	direct mounted pilot valve 50	ratur range of media max. 160 °C	
flush ports				
leak ports				
limit switches			inductive	
manual override		via pilot valve		
approvals			LR/GL/WAZ	
mounting			mounting brackets	
weight	kg	VMK 1,8		
additional equipment			upon request	

electrica		l specifications	options	
nominal voltage	Un	DC 24 V	special voltage upon request	
_	Un	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% plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8		
connection				
optional	M12x1	connector acc. DESINA	connector acc. VDMA	
additional equipment		iluminated plug with varistor		
max. temperature	max. temperature media 60°C			
	ambient	50°C		
explosion proof	E Ex e II T5	nominal voltage Un	DC 24 V 3,25 W	
		power consumption	AC 230 V 50 Hz 2,90 W	

ctuation pressure range	bar
air consumption	cm³/strol
cycle speed	
control	
pilot valve interface	
actuator ports	2/4

bar	4-10		
cm³/stroke	7		
	main valve speed variable by throttleson pilot valve		
	preferably 5/2 way pilot valve		
	co-ax	NAMUR acc. VDI / VDE 3845	
2/4	G 1/8		

options

hydraulic specifications	options

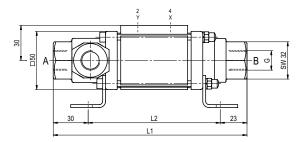
pneumatic specifications

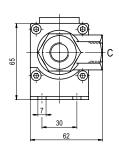
actuation pressure range control actuator ports

9	bar	4-10
ı		preferably 4/2 way control valve
6	X/Y	G 1/8
3		
	•	

by media

<sup>■</sup> specifications not highlighted are standard specifications highlighted in grey are optional

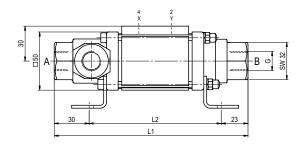


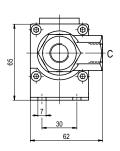


constructive length	L <sub>1</sub>	L2
standard	166,5	113,5
with inductive limit switches	186,5	133,5

# type VMK 10 DR

function: NO open when not energized (A ►B)





### pneumatic specifications



5/2 way pilot valve flow rate 700 l/min pressure range 3-10 bar G 1/8