

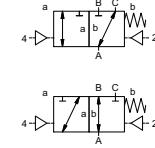
**5-VMK 50 DR**  
**5-VFK 50 DR**  
 valve type with pilot valve



## coaxial valve

type **VMK 50 DR**  
**VFK 50 DR**

<b>3/2 way valve</b>	<b>externally controlled</b>
<b>pressure range</b>	PN 0-100 bar
<b>orifice</b>	DN 50 mm
<b>connection</b>	thread/flange
<b>function</b>	valve
	normally closed (A ▷ B) symbol <b>NC</b>
	valve
	normally open (A ▷ B) symbol <b>NO</b>



<b>design</b>	pressure balanced, with spring return, switching overlap
<b>body materials</b>	① ② steel, galvanized ③ ④ steel, nickel plated
<b>valve seat</b>	synthetic resin on metal
<b>seal materials</b>	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
- inlet pressure at A, B or C
- 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

<b>general specifications</b>		<b>options</b>
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
	A ▷ B max. 100 / B ▷ A max. 16 / A ▷ C max. 100 / C ▷ A max. 100	
Kv value	m <sup>3</sup> /h 43,0	
vacuum	leak rate < 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>	
pressure-vacuum	P <sub>1</sub> ⇄ P <sub>2</sub>	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 - gelatinous - pasty - contaminated
abrasive media		version available
damping		
flow direction	opening	see pressure range
switching cycles	closing	
switching time	1/min 100	
media temperature	ms opening 150-3000 closing 150-3000	remote mounted pilot valve outside tempera-
ambient temperature	°C direct mounted pilot valve 60	ture range of media max. 160 °C
flush ports	direct mounted pilot valve 50	available
leak ports		available
limit switches		inductive / mechanical upon request
manual override		
approvals	via pilot valve	LR/GL/WAZ
mounting		mounting brackets
weight	kg VMK 19,5 VFK 31,4	upon request
additional equipment		

<b>electrical specifications</b>		<b>options</b>
nominal voltage	U <sub>n</sub> DC 24 V	special voltage upon request
	U <sub>n</sub> 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 <sub>n</sub>	DC 24 V 3,25 W
	power consumption	AC 230 V 50 Hz 2,90 W

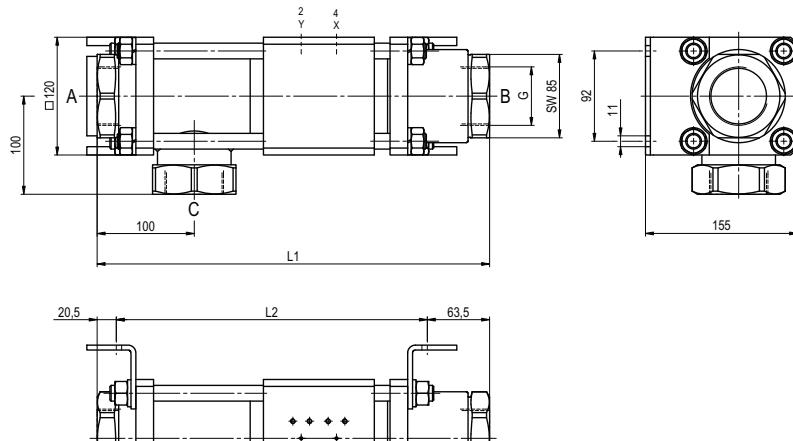
<b>pneumatic specifications</b>		<b>options</b>
actuation pressure range	bar 4-10	
air consumption	cm <sup>3</sup> /stroke 65	
	main valve speed variable by throttles on pilot valve	
cycle speed	preferably 5/2 way pilot valve	
control	co-ax / NAMUR	ISO 1
pilot valve interface	2/4	G 1/4
actuator ports		

<b>hydraulic specifications</b>		<b>options</b>
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
by media		

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

## type VMK 50 DR

function: **NC**  
closed when not energized (A ▶ B)

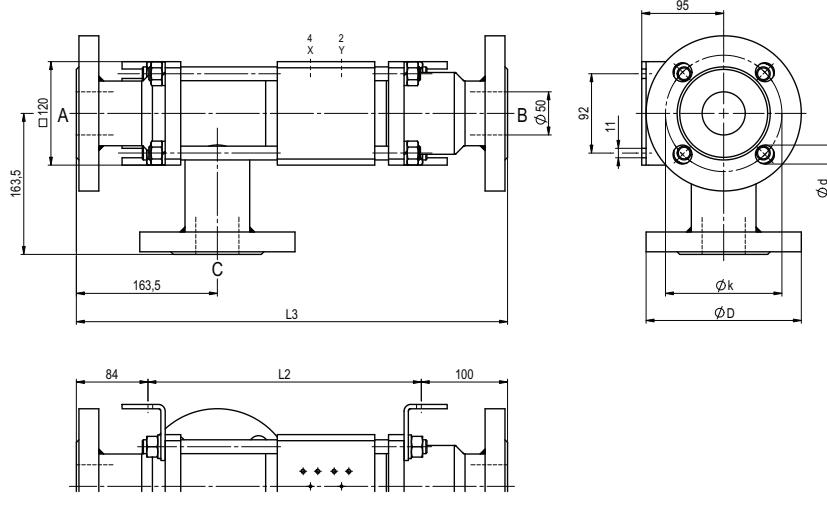


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	400	316	500
with 1/2 inductive limit switches	400	316	500
with force-feed lubrication nipple	400	316	500
with mechanical limit switches	-	-	-

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

## type VFK 50 DR

function: **NO**  
open when not energized (A ▶ B)



### pneumatic actuation

