

coaxial valve

VFK-H 20 DR

type VMK-H 20 DR

5-VMK-H 20 DR 5-VFK-H 20 DR

valve type with pilot valve



3/2 way valve externally controlled

pressure range PN 0-200 bar orifice DN 20 mm connection thread/flange

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!

design pressure balanced, with spring return, switching overlap

2) steel, galvanized (5) without non-ferr. metals 6 stainless steel

4) steel, nickel plated

valve seat synthetic resin on metal

(3)

seal materials NBR

body materials

PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure
- inlet pressure at A, B or C
- flow rate
- 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

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-H	threads G 3/4	special threads
F	VFK-H	flanges PN 160 /250	special flanges
function	******	NC	NO
pressure range	bar	0-200	
p. coom. c . m. g.		A ⇒ B max. 200 / B ⇒ A max. 100 / A □	⇒ C max. 200 / C ⇒ A max. 200
Kv value	m³/h	7,6	
vacuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹
pressure-vacuum	P₁⇔ P₂		pressure side max. 200 bar
			vacuum side leak rate upon request
back pressure	P ₂ > P ₁	see pressure range	
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media		<u> </u>	version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction		see pressure range	
switching cycles	1/min	200	
switching time	ms	opening 50-3000 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			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-H 7,8 VFK-H 9,2	
additional equipment			upon request
	alactrics	al specifications	options
	electrica	ai 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%	
connection		plug acc. DIN EN 175301-803 form B,	4 positions x90° / wire diameter 6-8 mm

actuation pressure range air consumption cycle speed control pilot valve interface actuator ports

actuation pressure range

additional equipment

max. temperature

explosion proof

optional

M12x1

media

ambient

E Ex e II T5

bar	4-10				
cm³/stroke	24				
	main valve speed variable by throttleson pilot valve				
	preferably 5/2 way pilot valve				
	co-ax / NAMUR	ISO 1			
2/4	G 1/8	G 1/4			

hydraulic specifications 10-30 / 30-60

G 1/4

50°C

connector acc. DESINA

nominal voltage Un

power consumption

pneumatic specifications

iluminated plug with varistor

preferably 4/2 way control valve NPT 1/4

options

options

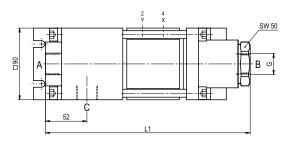
connector acc. VDMA

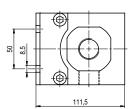
control

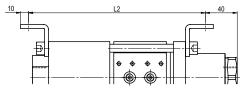
by media

actuator ports

specifications not highlighted are standard specifications highlighted in grey are optional







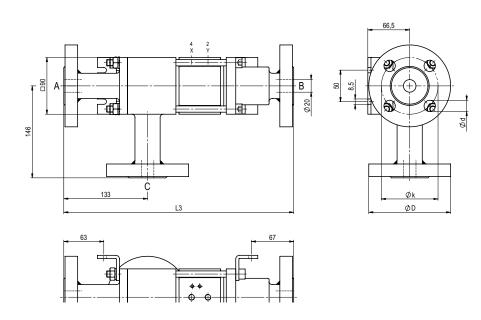
constructive length	L ₁	L2	Lз
standard	257	222	365
with 1/2 inductive limit switches	287	252	395
with force-feed lubrication nipple	287	252	395
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	130	90	18
250	EN 1092-1	135	95	18

type VFK-H 20 DR

function: NO

open when not energized (A ►B)



pneumatic actuation



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



5/2 way pilot valve ISO 1 flow rate 700 l/min pressure range 3-10 bar G 1/4