

coaxial valve

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

valve type with pilot valve

type VMK-H 20 **VFK-H 20**



2/2 way valve externally controlled pressure range PN 0-200 bar

> orifice DN 20 mm connection thread/flange function valve

body materials

normally closed

NC symbol

valve normally open 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

2 steel, galvanized (1)

(3) (5) without non-ferr. metals 6 stainless steel 4 steel, nickel plated

valve seat synthetic resin on metal

seal materials NBR PTFE, FPM, CR, EPDM

details needed for main valve

- orifice
- port
- function NC/NO
- operating pressureflow 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

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	
	VFK-H	flanges PN 160/250	special flanges	
function	-	NC	NO	
pressure range	bar	0-200		
Kv value	m³/h	7,7		
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		available (max. 16 bar)	
media		gaseous - liquid - highly viscous -		
		gelatinous - pasty - contaminated		
abrasive media			version available	
damping	opening			
	closing	by throttles on pilot valve		
flow direction	A ⇒ B	as marked	bi-directional upon request	
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	rature 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 6,7 VFK-H 8,7		
additional equipment			upon request	

	electrica	I specifications	options	
nominal voltage	Un	DC 24V	special voltage upon request	
	Un	AC 230V 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	IP 65 (P54)	acc. DIN 40 050		
energized duty rating	ED	100%		
connection		plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm		
additional equipment		illuminated plug with varistor		
optional	M12x1	connector acc. DESINA	connector acc. VDMA	
max. temperature	media	60°C		
	ambient	50°C		
explosion proof	EEx m II T5	nominal voltage Un	direct current 24 V 3,25 W	
		power consumption	alternating current 230 V 50 Hz 2,90 W	

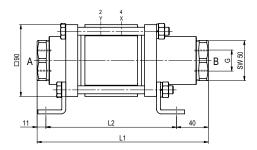
	pricamatic specifications		options	
actuation pressure range	bar	4-10		
air consumption	cm³/stroke	11		
cycle speed	main valve speed variable by throttles on pilot valve			
control	preferably 5/2-way pilot valve			
pilot valve interface	co-ax / NAMUR		ISO 1	
actuator ports	2/4	G 1/8	G 1/4	

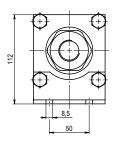
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hydraulic specifications options 10-30 / 30-60 bar actuation pressure range control preferably 4/2-way control valve NPT 1/4 actuator ports G 1/4

pneumatic specifications

specifications not highlighted are standard specifications highlighted in grey are optional



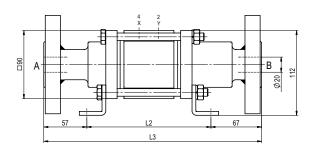


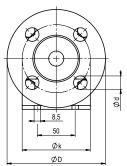
constructive length	L ₁	L2	Lз
standard	215	164	288
with 1/2 inductive limit switches	245	194	318
with force-feed lubrication nipple	245	194	318
with mechanical limit switches	-	-	-

flanges PN	DIN	øD	øk	ød
160	2638	130	90	18
250	2628	135	95	18

type VFK-H 20

function: **NO** open when not energized





pneumatic actuation (separately)



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