

5-VMK-H 50
5-VFK-H 50

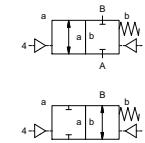
valve type with pilot valve



coaxial valve

type **VMK-H 50**
VFK-H 50

2/2 way valve	externally controlled
pressure range	PN 0-200 bar
orifice	DN 50 mm
connection	thread/flange
function	valve normally closed symbol NC
	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
body materials	① ③ ④ steel, nickel plated ② steel, galvanized ⑤ without non-ferr. metals ⑥ stainless steel
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
- 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-H threads G 2	special threads
	VFK-H flanges PN 160 / 250	special flanges
function	NC	NO
pressure range	bar 0-200	
Kv value	m³/h 43,0	
vacuum	leak rate < 10 ⁻⁴ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ↔ P ₂	
back pressure	P ₂ > P ₁	available (max. 16 bar)
media	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
abrasive media		version available
damping		
flow direction	opening	
switching cycles	closing by throttles on pilot valve	
switching time	A → B as marked	bi-directional upon request
media temperature	1/min 100	
ambient temperature	ms opening 100-3000 closing 100-3000	
flush ports	°C direct mounted pilot valve 60	remote mounted pilot valve outside temperature range of media max. 160 °C
leak ports	°C direct mounted pilot valve 50	available
limit switches		available
manual override		inductive
approvals	via pilot valve	
mounting		LR/GL/WAZ
weight	kg VMK-H 12,3 VFK-H 18,7	mounting brackets
additional equipment		upon request

electrical specifications

nominal voltage	U _n DC 24 V	special voltage upon request
	U _n AC 230 V 50 Hz	special voltage upon request
power consumption	DC 4,8 W	2,5 W
protection	AC pick up 11,0 VA holding 8,5 VA	
energized duty rating	IP65 (P54) acc. DIN 40050	
connection	ED 100%	
optional	plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm	
additional equipment	M12x1 connector acc. DESINA	connector acc. VDMA
max. temperature	illuminated plug with varistor	
explosion proof	media 60°C	
	ambient 50°C	
	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	
air consumption	cm ³ /stroke 65	
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

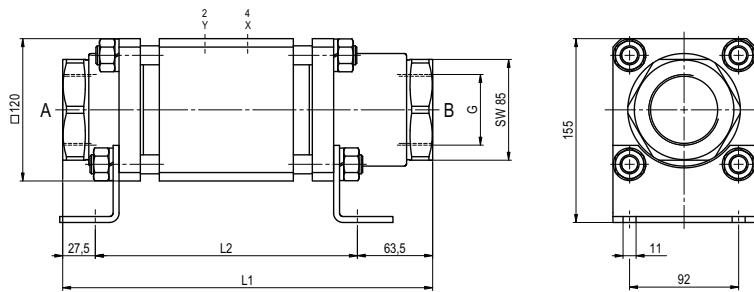
hydraulic specifications

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

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

type VMK-H 50

function: **NC**
closed when not energized

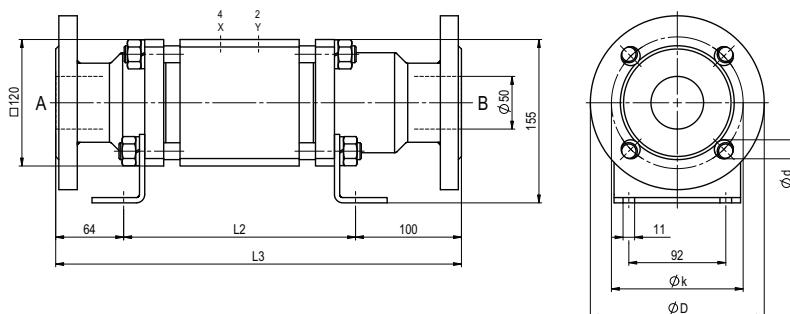


constructive length	L ₁	L ₂	L ₃
standard	312	221	385
with 1/2 inductive limit switches	312	221	385
with force-feed lubrication nipple	312	221	385
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	195	145	26
250	EN 1092-1	200	150	26

type VFK-H 50

function: **NO**
open when not energized



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