

5-VMK-H 25
5-VFK-H 25

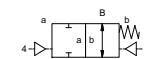
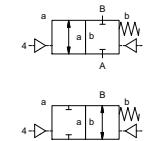
valve type with pilot valve



coaxial valve

type **VMK-H 25**
VFK-H 25

2/2 way valve	externally controlled
pressure range	PN 0-200 bar
orifice	DN 25 mm
connection	thread/flange
function	valve normally closed symbol NC
	valve normally open symbol NO


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

 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
- 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 1	special threads
VFK-H	flanges PN 160 / 250	special flanges
	NC	NO
function		
pressure range	bar 0-200	
Kv value	m ³ /h 12,6	
vacuum	leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ↔ P ₂	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 damping		version available
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 200	
ambient temperature	ms opening 50-3000 closing 50-3000	
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 / mechanical upon request
approvals	via pilot valve	
mounting	LR/GL/WAZ	
weight	VFK-H 11,1	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	4.8 W	2.5 W
protection	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 24	
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

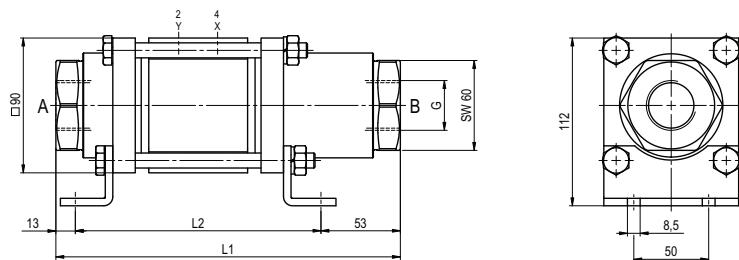
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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.

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

type VMK-H 25

function: **NC**
closed when not energized

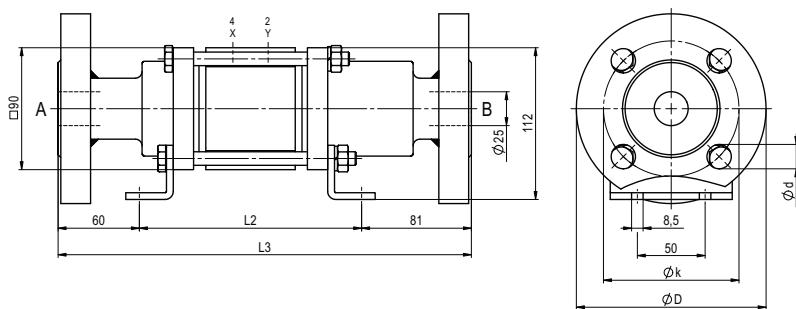


constructive length	L ₁	L ₂	L ₃
standard	230	164	305
with 1/2 inductive limit switches	260	194	335
with force-feed lubrication nipple	260	194	335
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	140	100	18
250	EN 1092-1	150	105	22

type VFK-H 25

function: **NO**
open when not energized



pneumatic actuation

