

5-VMK-H 15
5-VFK-H 15

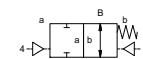
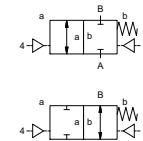
valve type with pilot valve



coaxial valve

type **VMK-H 15**
VFK-H 15

2/2 way valve	externally controlled
pressure range	PN 0-200 bar
orifice	DN 15 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 1/2	special threads
	VFK-H flanges PN 160 / 250	special flanges
function	NC	NO
pressure range	bar 0-200	
Kv value	m ³ /h 5,6	
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	bi-directional upon request
switching time	A ⇌ B as marked	
media temperature	1/min 200	
ambient temperature	ms opening 50-3000 closing 50-3000	remote mounted pilot valve outside temperature range of media max. 160 °C
flush ports	°C direct mounted pilot valve 60	
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 7,1	mounting brackets
additional equipment	kg VMK-H 5,3	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 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

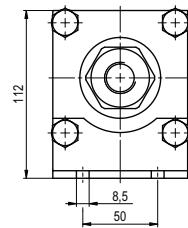
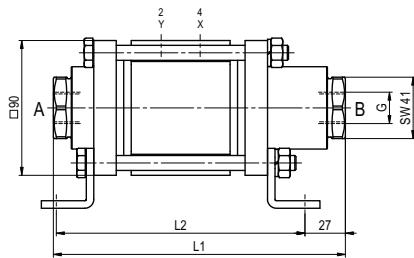
hydraulic specifications

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

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

type VMK-H 15

function: **NC**
closed when not energized

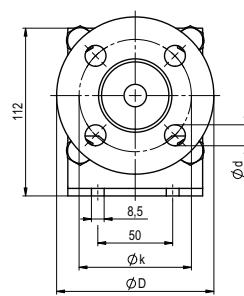
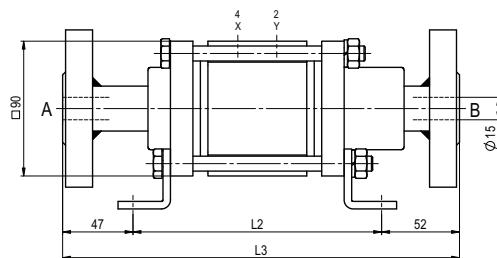


constructive length	L ₁	L ₂	L ₃
standard	195	166	265
with 1/2 inductive limit switches	225	196	295
with force-feed lubrication nipple	225	196	295
with mechanical limit switches	225	196	295

flanges PN	DIN	ØD	Øk	Ød
160	EN 1092-1	105	75	14
250	EN 1092-1	130	90	18

type VFK-H 15

function: **NO**
open when not energized



pneumatic actuation

