

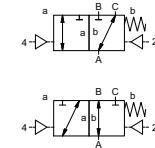
5-VMK 40 DR
5-VFK 40 DR
 valve type with pilot valve



coaxial valve

type **VMK 40 DR**
VFK 40 DR

3/2 way valve	externally controlled
pressure range	PN 0-100 bar
orifice	DN 40 mm
connection	thread/flange
function	valve normally closed (A ► B) symbol NC
	valve 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
body materials	① ② steel, galvanized ③ ④ steel, nickel plated 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
- inlet pressure at A, B or C
- 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		options
ports	VMK threads G 1 1/2 - G 2	special threads
	VFK flanges PN 100	special flanges
function	NC	NO
pressure range	bar 0-64 / 0-100	> 100 bar
	A ⇒ B max. 100 / B ⇒ A max. 16 / A ⇒ C max. 100 / C ⇒ A max. 100	
Kv value	m³/h 31,0	
vacuum	leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ⇒ P ₂	pressure side max. 100 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		version available
damping		
flow direction	opening	see pressure range
switching cycles	closing	
switching time	1/min 150	
media temperature	ms opening 100-3000 closing 100-3000	
ambient temperature	°C direct mounted pilot valve 60	remote mounted pilot valve outside temperature range of media max. 160 °C
	direct mounted pilot valve 50	
flush ports		available
leak ports		available
limit switches		inductive / mechanical upon request
manual override		
approvals	via pilot valve	
mounting		LR/GL/WAZ
weight	kg VMK 18,5 VFK 26,5	mounting brackets
additional equipment		upon request

electrical specifications		options
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
	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	
optional	M12x1 connector acc. DESINA	connector acc. VDMA
additional equipment		
max. temperature	media 60°C	
	ambient 50°C	
explosion proof	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

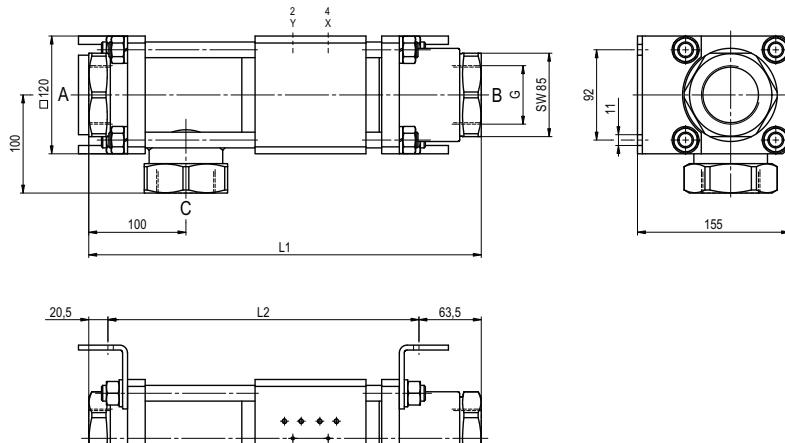
pneumatic specifications		options
actuation pressure range	bar 4-10	
air consumption	cm ³ /stroke 65	
	main valve speed variable by throttles on pilot valve	
cycle speed	preferably 5/2 way pilot valve	
control	co-ax / NAMUR	ISO 1
pilot valve interface	2/4	G 1/4
actuator ports		G 1/4

hydraulic specifications		options
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
by media		

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

type VMK 40 DR

function: **NC**
closed when not energized (A ▶ B)

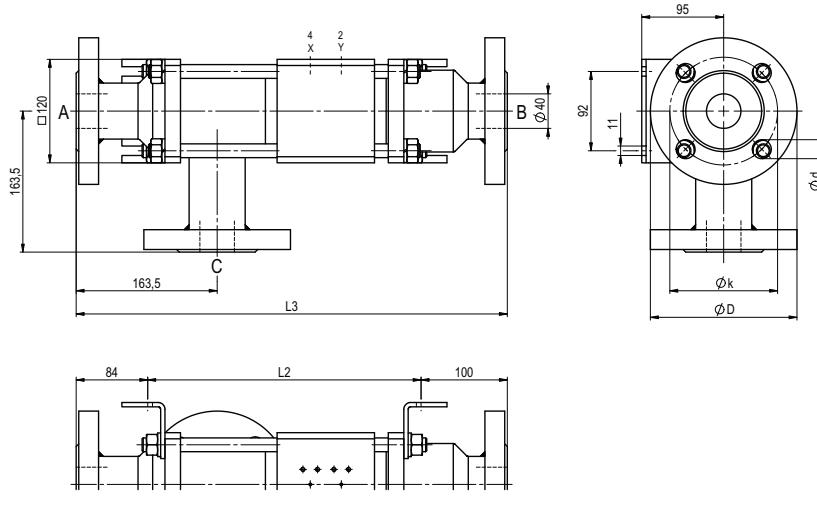


constructive length	L ₁	L ₂	L ₃
standard	400	316	500
with 1/2 inductive limit switches	400	316	500
with force-feed lubrication nipple	400	316	500
with mechanical limit switches	-	-	-

flanges PN	DIN	ØD	Øk	Ød
100	EN 1092-1	170	125	22

type VFK 40 DR

function: **NO**
open when not energized (A ▶ B)



pneumatic actuation

