

coaxial valve

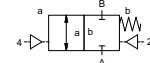
type FCF-K 100

5-FCF-K 100

valve type with pilot valve



2/2 way valve externally controlled
pressure range PN 0-40 bar
orifice DN 100 mm
connection flange
function valve
 normally closed
symbol NC



⚠ 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 aluminium ②
 ③ ④ ⑤ ⑥

valve seat synthetic resin on metal
seal materials NBR, PU

PTFE, FPM, PE

details needed for main valve

- orifice
- port
- function NC
- 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
- pilot valve type

details needed for hydraulic actuation

- actuation pressure range min/max
- hydraulic control valve function

general specifications

options

ports	FCF-K	flanges PN 16 / 40	
function	NC		
pressure range	bar 0-16 / 0-40		
Kv value	m³/h 193,0		
vacuum	leak rate < 10 ⁻⁴ mbar·l·s ⁻¹		
pressure-vacuum	P ₁ ↔ P ₂	pressure side max. 40 bar vacuum side leak rate upon request	
back pressure	P ₂ > P ₁	available (max. 16 bar)	
media		emulsions - oils - neutral gases other medias upon request	
abrasive media			
damping			
flow direction	opening by throttles on pilot valve		
switching cycles	closing as marked	bi-directional upon request (max. 16 bar)	
switching time	1/min 40		
media temperature	ms opening 450-3000 closing 300-3000		
ambient temperature	°C direct mounted pilot valve 60 > 60 °C upon request		
flush ports	°C direct mounted pilot valve 50 > 50 °C upon request		
leak ports			
limit switches			
manual override			
approvals	via pilot valve	upon request	
mounting			
weight	kg FCF-K 25,0		
additional equipment		sensor / manometer connection G 1/4	

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	
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

options

actuation pressure range	bar 4-10	3-10 upon request
air consumption	cm ³ /stroke 250	
cycle speed		main valve speed variable by throttles on pilot valve
control		preferably 5/2 way pilot valve
pilot valve interface	NAMUR acc. VDI / VDE 3845	ISO 1 acc. DIN 5599/1
actuator ports	2/4 G 1/4	G 3/8

hydraulic specifications

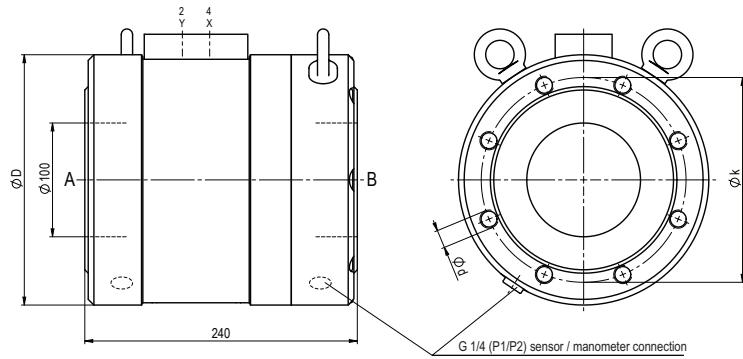
options

actuation pressure range	bar 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 FCF-K 100

function: **NC**
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	220	180	M16
40	EN 1092-1	235	190	M20

pneumatic actuation

