

coaxial valve

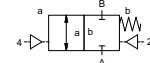
type FCF-K 80

5-FCF-K 80

valve type with pilot valve



2/2 way valve externally controlled
pressure range PN 0-40 bar
orifice DN 80 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

ports	FCF-K	flanges PN 16 / 40	options
function	NC		
pressure range	bar 0-16 / 0-40		
Kv value	m³/h 122,0		
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 50		
media temperature	ms opening 350-3000 closing 350-3000		
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	via pilot valve	upon request	
approvals			
mounting			
weight	kg FCF-K 11,5		
additional equipment		sensor / manometer connection G 1/4	

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	
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	3-10 upon request
air consumption	cm ³ /stroke 100	
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

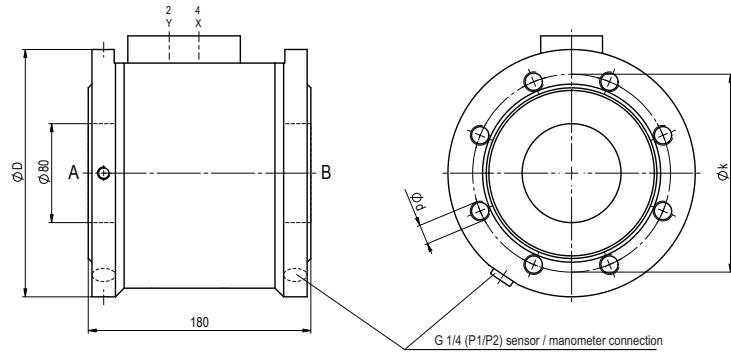
hydraulic specifications

actuation pressure range	bar 30-60	options
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 80

function: **NC**
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	200	160	M16
40	EN 1092-1	200	160	M16

pneumatic actuation

