

coaxial valve

type FCF 100

5-FCF 100

valve type with pilot valve



Above stated body materials refer

to the valve port connections that get in contact with the media only!

2/2 way valve externally controlled

pressure range PN 0-40 bar orifice DN 100 mm connection flange

> function valve normally closed symbol NC

valve normally open

symbol NO



2

pressure balanced, with spring return

body materials aluminium

(3) (5) 4 6

valve seat synthetic resin on metal

seal materials NBR. PU PTFE, FPM, PE

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
- pilot valve type

details needed for hydraulic actuation

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

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.

	general specifications		options	
ports	FCF	flanges PN 16 / 40		
function		NC	NO	
pressure range	bar	0-16 / 0-40		
Kv value	m³/h	215,0		
vacuum	leak rate		< 10 ⁻⁴ mbar•l•s ⁻¹	
pressure-vacuum	P₁⇔ P₂		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	opening			
	closing	by throttles on pilot valve		
flow direction	A ⇒ B	as marked	bi-directional upon request (max. 16 bar)	
switching cycles	1/min	40		
switching time	ms	opening 450-3000 closing 300-3000		
media temperature	°C	direct mounted pilot valve 60	> 60 °C upon request	
mbient temperature	°C	direct mounted pilot valve 50	> 50 °C upon request	
flush ports				
leak ports				
limit switches			inductive upon request	
manual override		via pilot valve		
approvals			upon request	
mounting				
weight	kg	FCF 34,0		
dditional equipment	_	sensor / manometer connection G 1/4		

	electrical specifications		options		
nominal voltage	Un	DC 24 V	special voltage up	on request	
	Un	AC 230 V 50 Hz	special voltage up	on request	
power consumption	DC	4,8 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			
optional	M12x1	connector acc. DESINA	connector acc. VD	MA	
additional equipment		iluminated plug with varistor			
max. temperature	media	60°C			
	ambient	50°C			
explosion proof	E Ex e II T5	nominal voltage Un	DC 24 V	3,25 W	
		power consumption	AC 230 V 50 Hz	2,90 W	
	pneuma	tic specifications	options		
		4.40	0.40		

actuation pressure range air consumption cycle speed control pilot valve interface actuator ports

bar	4-10	3-10 upon request	
cm³/stroke	250		
	main valve speed variable by throttleson pilot valve		
	preferably 5/2 way pilot valve		
	NAMUR acc. VDI / VDE 3845	ISO 1 acc. DIN 5599/1	
2/4	G 1/4	G 3/8	
,			

options

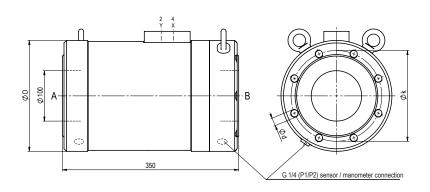
hydraulic specifications

actuation pressure range control actuator ports by media

bar	30-60		
	preferably 4/2 way control valve		
X/Y	G 1/4	NPT 1/4	

specifications not highlighted are standard specifications highlighted in grey are optional

function: NC closed when not energized

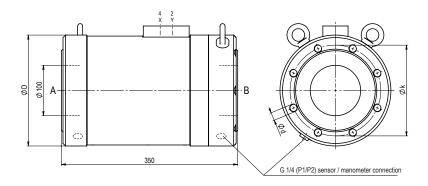


flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	220	180	M16
40	EN 1092-1	235	190	M20

type FCF 100

function: NO

open when not energized



pneumatic actuation



5/2 way pilot valve flow rate 700 l/min pressure range 3-10 bar G 1/8



5/2 way pilot valve ISO 1 flow rate 700 l/min pressure range 3-10 bar G 1/4