

coaxial valve

type FCF 100

5-FCF 100

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-40 bar

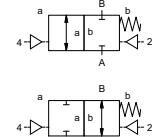
orifice DN 100 mm

connection flange

function valve

normally closed symbol NC

valve normally open symbol NO



design pressure balanced, with spring return

body materials ① aluminium

②

③

⑤

④

⑥

valve seat synthetic resin on metal

seal materials NBR, PU

PTFE, FPM, PE

⚠ 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
- pilot valve type

details needed for hydraulic actuation

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

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	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		
switching cycles	closing by throttles on pilot valve	bi-directional upon request (max. 16 bar)	
switching time	A → B as marked		
media temperature	1/min 40		
ambient temperature	ms opening 450-3000 closing 300-3000		
flush ports	°C direct mounted pilot valve 60	> 60 °C upon request	
leak ports	°C direct mounted pilot valve 50	> 50 °C upon request	
limit switches		inductive upon request	
manual override		via pilot valve	upon request
approvals			
mounting			
weight	kg FCF 34,0		
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	
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	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

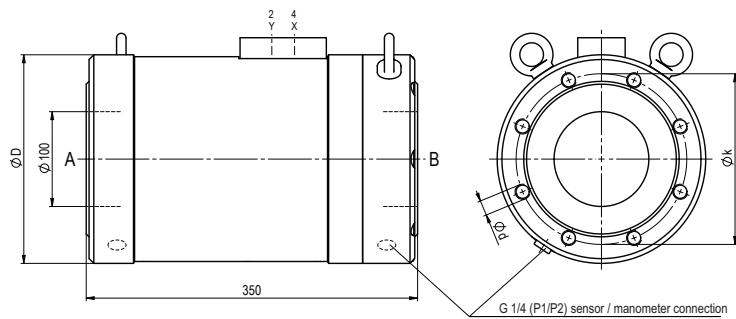
options

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

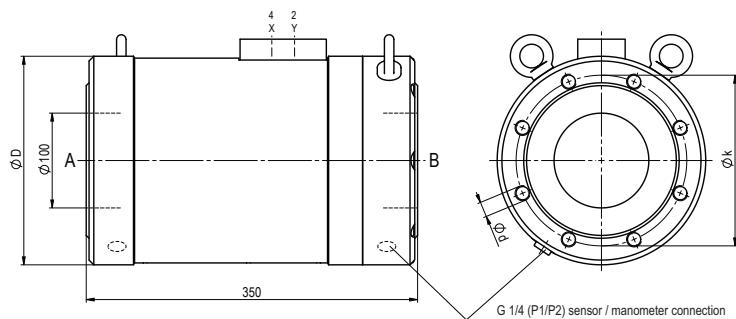
type FCF 100

function: **NC**
closed when not energized



type FCF 100

function: **NO**
open when not energized



pneumatic actuation

