

coaxial valve

type FCF 125

5-FCF 125

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-40 bar

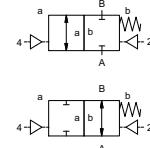
orifice DN 125 mm

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 227,0		
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		
switching time	A → B as marked	bi-directional upon request (max. 16 bar)	
media temperature	1/min 30		
ambient temperature	ms opening 700-3000 closing 450-3000		
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 52,0		
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 480	
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

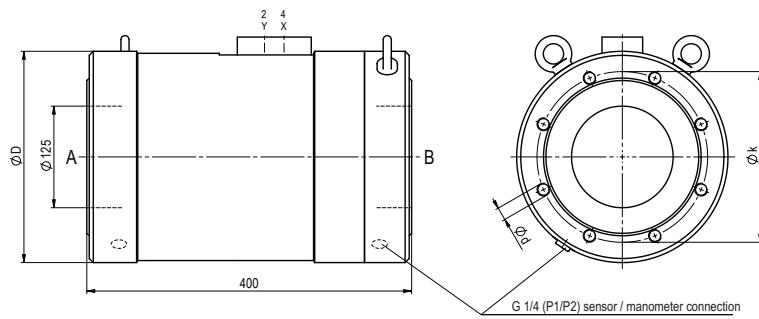
options

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

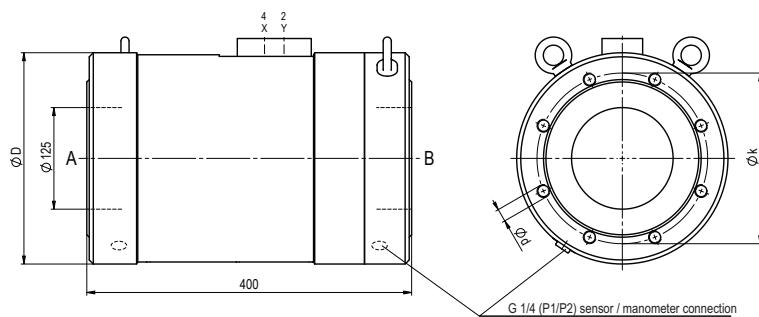
type FCF 125

function: **NC**
closed when not energized



type FCF 125

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