

## coaxial valve

## type FCF 80

## 5-FCF 80

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-40 bar

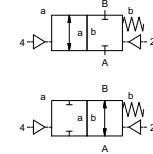
orifice DN 80 mm

connection flange

function valve

normally closed symbol NC

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 133,0		
vacuum	leak rate < 10 <sup>-4</sup> mbar·l·s <sup>-1</sup>		
pressure-vacuum	P <sub>1</sub> ↔ P <sub>2</sub>	pressure side max. 40 bar	
back pressure	P <sub>2</sub> > P <sub>1</sub>	vacuum side leak rate upon request	
media		available (max. 16 bar)	
abrasive media		emulsions - oils - neutral gases	
damping		other medias upon request	
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 50		
ambient temperature	ms opening 350-3000 closing 350-3000		
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			
manual override		inductive	
approvals		via pilot valve	
mounting		upon request	
weight	kg FCF 14,5		
additional equipment		sensor / manometer connection G 1/4	

## electrical specifications

## options

nominal voltage	U <sub>n</sub> DC 24 V	special voltage upon request
	U <sub>n</sub> 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 <sub>n</sub>	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 <sup>3</sup> /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

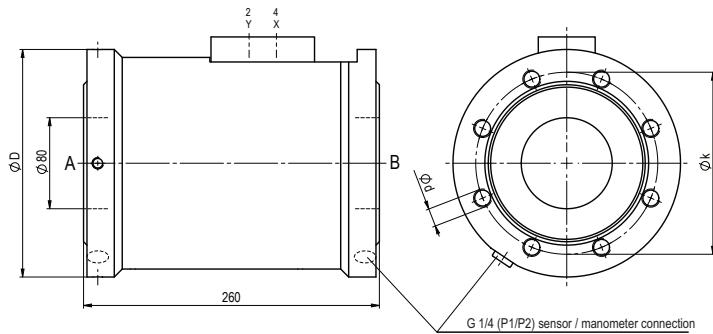
## options

actuation pressure range	bar 30-60	
control	preferably 4/2 way control valve	
actuator ports by media	X/Y G 1/4	NPT 1/4

■ specifications not highlighted are standard  
specifications highlighted in grey are optional

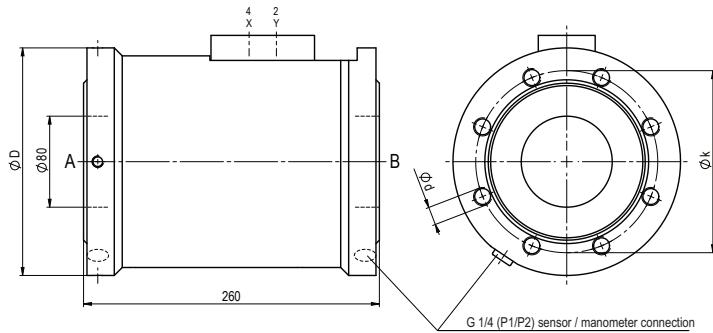
## type FCF 80

function: **NC**  
closed when not energized



## type FCF 80

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