

08/2021



! 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
- 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.

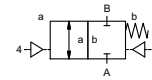
■ specifications not highlighted are standard
 ■ specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

externally controlled

PN 0-40 bar
 DN 100 mm
 flange
 valve
 normally closed
 symbol **NC**



design

body materials

pressure balanced, with spring return

- | | |
|-------------|---|
| ① aluminium | ② |
| ③ | ⑤ |
| ④ | ⑥ |

valve seat

seal materials

synthetic resin on metal

NBR, PU PTFE, FPM, PE

ports

function
pressure range

FCF-K flanges PN 16 / 40
 NC
 bar 0-16 / 0-40

Kv value
vacuum
pressure-vacuum

m³/h 193,0
 leak rate < 10⁻⁴ mbar•L•s⁻¹
 P₁ ⇄ P₂ pressure side max. 40 bar
vacuum side leak rate upon request
available (max. 16 bar)
 P₂ > P₁ other medias upon request
 emulsion - oil - neutral gases

back pressure
media

abrasive media
damping

opening
 closing by throttles on pilot valve
 A ⇄ B as marked bi-directional upon request

flow direction
switching cycles
switching time

1/min 40
 ms opening 450-3000
closing 300-3000
 °C direct mounted pilot valve 60 > 60 °C upon request
 °C direct mounted pilot valve 50 > 50 °C upon request

media temperature
ambient temperature
flush ports

via pilot valve upon request

leak ports
limit switches
manual override
approvals
mounting
weight
additional equipment

kg FCF-K 25,0
sensor / manometer connection G 1/4

nominal voltage

power consumption

protection
energized duty rating
connection
optional
additional equipment
max. temperature

electrical specifications

U_n DC 24 V special voltage upon request
 U_n AC 230 V 50 Hz special voltage upon request
 DC 4,8 W
 AC pick up 11,0 VA holding 8,5 VA
 IP65 (P54) acc. DIN 40050
 ED 100%
plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm
 M12x1 connector acc. DESINA connector acc. VDMA
illuminated plug with varistor
 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

explosion proof

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

pneumatic specifications

bar 4-10 3-10 upon request
 cm³/stroke 250
main valve speed variable by throttles on 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

actuation pressure range
control
actuator ports
by media

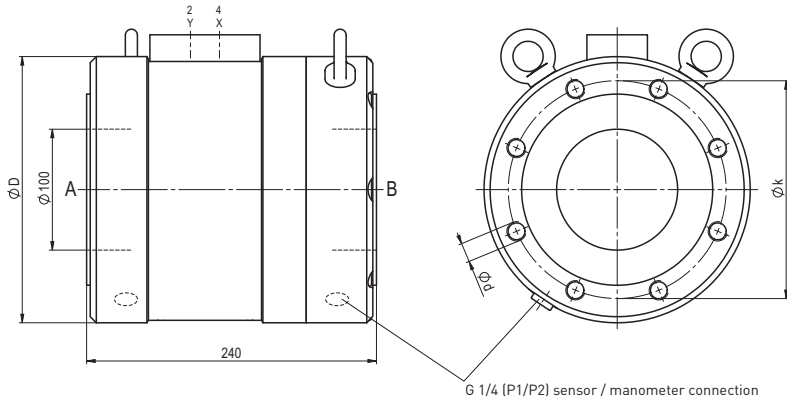
hydraulic specifications

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

coax® data sheet - coaxial valve

type FCF-K 100

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

pneumatic specifications

