

03/2022



! 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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

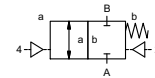
specifications not highlighted are standard
 specifications highlighted in grey are optional

2/2-way valve

pressure range
orifice
connection
function

externally controlled

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



operating principle

body material

pressure balanced, with spring return

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

valve seat

seal materials

synthetic materials on metal
 NBR, PU PTFE, FPM, PE

ports

function
pressure range

general specifications **options**
 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 emulsion - oil - neutral gases other medias upon request

back pressure
media

abrasive media
damping

opening
 closing by throttles on pilot valve
 A ⇔ B as marked bi-directional upon request
 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
leak ports
limit switches
manual override
approvals
mounting
weight
additional equipment

via pilot valve upon request
 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 **options**
 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 **options**
 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

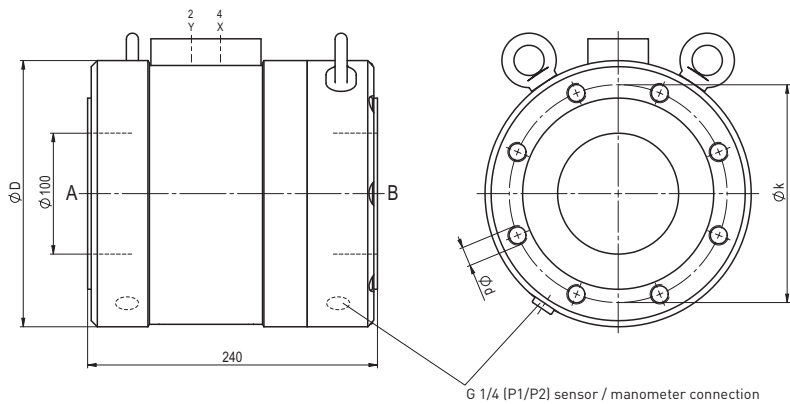
actuation pressure range
control
actuator ports
by media

hydraulic specifications **options**
 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

