

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.

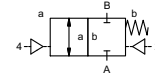
specifications not highlighted are standard  
 specifications highlighted in grey are optional

**2/2-way valve**

**pressure range**  
**orifice**  
**connection**  
**function**

**externally controlled**

PN 0-40 bar  
 DN 80 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**

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

**Kv value**  
**vacuum**  
**pressure-vacuum**

m<sup>3</sup>/h 122,0  
 leak rate < 10<sup>-4</sup> mbar•L•s<sup>-1</sup>  
 P<sub>1</sub> ↔ P<sub>2</sub> pressure side max. 40 bar  
 vacuum side leak rate upon request  
 available (max. 16 bar)  
 P<sub>2</sub> > P<sub>1</sub> emulsion - oil - neutral gases other medias upon request

**back pressure**  
**media**

**abrasive media**  
**damping**

opening by throttles on pilot valve  
 closing as marked bi-directional upon request  
 A ↔ B as marked  
 1/min 50  
 ms opening 350-3000  
 closing 350-3000  
 °C direct mounted pilot valve 60 > 60 °C upon request  
 °C direct mounted pilot valve 50 > 50 °C upon request

**flow direction**  
**switching cycles**  
**switching time**

**media temperature**  
**ambient temperature**  
**flush ports**  
**leak ports**

via pilot valve upon request

**limit switches**  
**manual override**  
**approvals**  
**mounting**  
**weight**  
**additional equipment**

kg FCF-K 11,5  
 sensor / manometer connection G 1/4

**nominal voltage**

**power consumption**

**electrical specifications**

U<sub>n</sub> DC 24 V special voltage upon request  
 U<sub>n</sub> 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<sub>n</sub> DC 24 V 3,25 W  
 power consumption AC 230 V 50 Hz 2,90 W

**protection**  
**energized duty rating**  
**connection**  
**optional**  
**additional equipment**  
**max. temperature**

**explosion proof**

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

**pneumatic specifications**

bar 4-10 3-10 upon request  
 cm<sup>3</sup>/stroke 100  
 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**

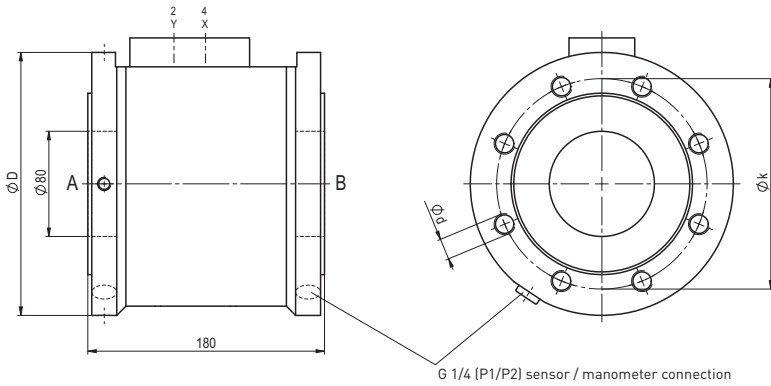
**hydraulic specifications**

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

# coax® data sheet - coaxial valve

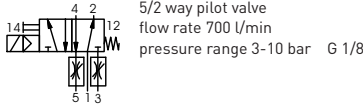
type FCF-K 80

function: **NC**  
closed when not energized

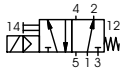


flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	200	160	M16
40	EN 1092-1	200	160	M16

**pneumatic specifications**



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