

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/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

**!** 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**

**design**

**body materials**

**valve seat**

**seal materials**

**ports**

**function**  
**pressure range**

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

**back pressure**  
**media**

**abrasive media**  
**damping**

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

**media temperature**  
**ambient temperature**  
**flush ports**  
**leak ports**  
**limit switches**  
**manual override**  
**approvals**  
**mounting**  
**weight**  
**additional equipment**

**nominal voltage**

**power consumption**

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

**explosion proof**

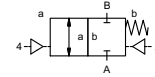
**actuation pressure range**  
**air consumption**  
**cycle speed**  
**control**  
**pilot valve interface**  
**actuator ports**

**actuation pressure range**  
**control**  
**actuator ports**  
**by media**

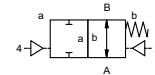
**externally controlled**

PN 0-40 bar  
 DN 65 mm  
 flange

valve normally closed  
 symbol **NC**



valve normally open  
 symbol **NO**



pressure balanced, with spring return

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

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

**general specifications**

**options**

FCF	flanges PN 16 / 40	
	NC	NO
bar	0-16 / 0-40	
m³/h	107,0	
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
opening		
closing	by throttles on pilot valve	
A ⇔ B	as marked	bi-directional upon request
1/min	50	
ms	opening 250-3000 closing 400-3000	
°C	direct mounted pilot valve 60	> 60 °C upon request
°C	direct mounted pilot valve 50	> 50 °C upon request
		inductive
	via pilot valve	upon request
kg	FCF 12,5	
	sensor / manometer connection G 1/4	

**electrical specifications**

**options**

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

**pneumatic specifications**

**options**

bar	4-10	3-10 upon request
cm³/stroke	77	
	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

**hydraulic specifications**

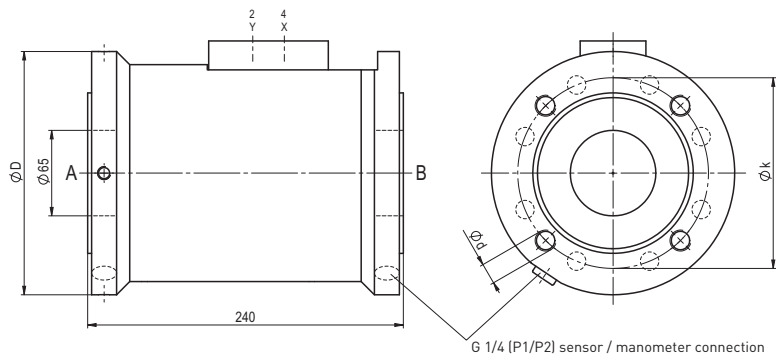
**options**

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

# coax® data sheet - coaxial valve

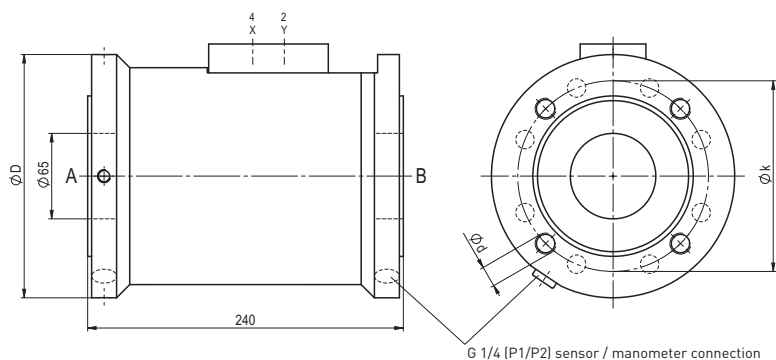
## type FCF 65

function: **NC**  
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	185	145	4x M16
40	EN 1092-1	185	145	8x M16

function: **NO**  
open when not energized



### pneumatic specifications

