

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

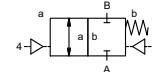
actuation pressure range
air consumption
cycle speed
control
pilot valve interface
actuator ports

actuation pressure range
control
actuator ports
by media

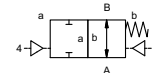
externally controlled

PN 0-40 bar
 DN 100 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	
m ³ /h	215,0	
leak rate		< 10 ⁻⁴ mbar•L•s ⁻¹
P ₁ ⇄ P ₂		pressure side max. 40 bar
		vacuum side leak rate upon request
		available (max. 16 bar)
P ₂ > P ₁	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	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
		inductive upon request
	via pilot valve	upon request
kg	FCF 34,0	
	sensor / manometer connection G 1/4	

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

pneumatic specifications

options

bar	4-10	3-10 upon request
cm ³ /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

hydraulic specifications

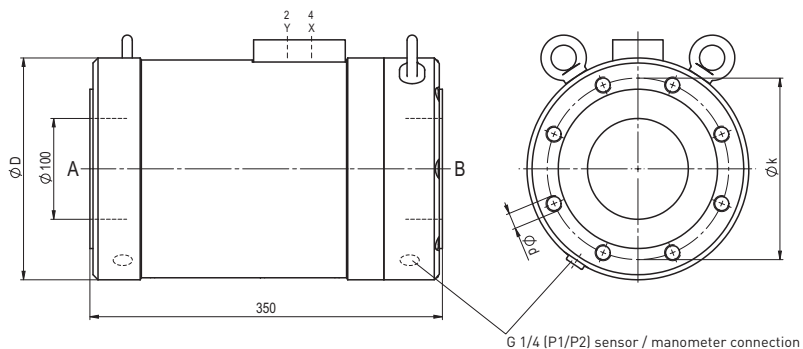
options

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

coax® data sheet - coaxial valve

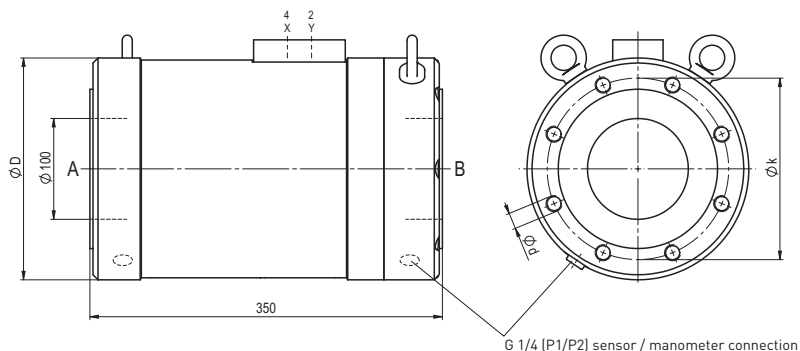
type FCF 100

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

function: **NO**
open when not energized



pneumatic specifications

