coax[®] data sheet - coaxial valve

type FCF 100



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/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. 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

operating principle body material

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

by media

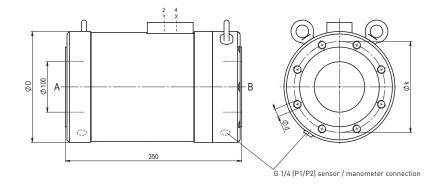
actuator ports

externally	controlled							
PN 0-40 ba								
DN 100 mr	n							
flange		2						
valve	^a							
normally c	47/1							
symbol N	c ·	A						
valve	а	B						
normally o	pen a	▶ W						
symbol N	0 41×L-							
proceuro b	alapsed with spring return							
-	pressure balanced, with spring return							
() alumini	um	2						
3		5						
4		6						
synthetic n	naterials on metal							
NBR, PU		PTFE, FPM, PE						
,								
general sp	ecifications	options						
•								
FCF	flanges PN 16 / 40							
	NC	NO						
bar	0-16 / 0-40							
m³/h	215,0							
leak rate	213,0	< 10 ⁻⁴ mbar•l•s ⁻¹						
P1⇔ P2		pressure side max. 40 bar						
P2 > P1		vacuum side leak rate upon request available (max. 16 bar)						
F2 2 F1	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						
Un	DC 24 V	special voltage upon request						
Un DC	AC 230 V 50 Hz 4,8 W	special voltage upon request						
AC	pick up 11,0 VA holding 8,5 VA							
IP65 (P54)	acc. DIN 40050							
ED	100%	positions v002 (wire discretes (0						
M12x1	plug acc. DIN EN 175301-803 form B, 4 connector acc. DESINA	connector acc. VDMA						
	illuminated plug with varistor							
media	60°C							
ambient E Ex e II T5	50°C nominal voltage Un	DC 24 V 3,25 W						
LEXCHIO	power consumption	AC 230 V 50 Hz 2,90 W						
	· · ·							
pneumatic	specifications	options						
bar	4-10	3-10 upon request						
cm³/stroke	250							
	main valve speed variable by throttleso	n 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							
VN	preferably 4/2 way control valve	NDT 1//						
X/Y	G 1/4	NPT 1/4						

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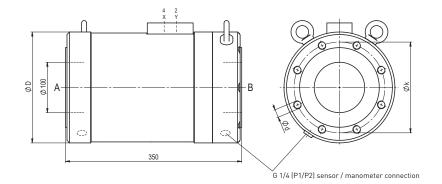
type FCF 100

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



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

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