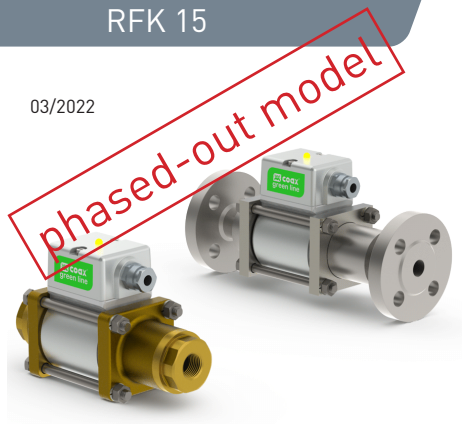
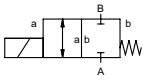
coax® data sheet - coaxial valve

type RMK 15
RFK 15

03/2022



2/2-way valve	**direct acting**
pressure range	PN 0-100 bar
orifice	DN 15 mm
connection	thread/flange
function	valve normally closed symbol **NC**



⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

operating principle	pressure balanced, with spring return
body material	① brass ② steel galvanized ③ brass, nickel plated ⑤ without non-ferr. Metals ④ steel, nickel plated ⑥ stainless steel ⓪ aluminium
valve seat	synthetic materials on metal
seal materials	FPM, PTFE, EPDM

details needed

- orifice
- port
- function NC
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- description of the operating mode

general specifications			**options**
ports	RMK	threads G 3/8 - G 3/4	special threads
	RFK	flanges PN 16 / 40 / 100	special flanges
function		NC	
pressure range	bar	0-16 / 0-40 / 0-63	> 63 bar upon request
Kv value	m^3/h	3,9 - Qmax. 80 l/min	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		available (max. 16 bar)
media		emulsion - oil	other medias upon request
abrasive media			upon request
damping	opening	refer to switching times	
	closing	refer to switching times	
flow direction	A ⇨ B	as marked	bi-directional (max. 16 bar)
switching cycles	1/min		
switching time	ms	selectable, ca. 200, 400, 800, 1000 ms	
media temperature	°C	DC: -20 to +100	
ambient temperature	°C	DC: -20 to +80	
limit switches		integrated	
manual override			
approvals			WAZ
mounting			mounting brackets
weight	kg	RMK 3,8 RFK 5,0	
additional equipment			

⚠ 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.

electrical specifications			**options**
nominal voltage	U_n	DC 24 V	
actuation	DC	direct-current magnet electronic control system with connectors integrated in the terminal box	
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection	M16x1,5	terminal box	
optional	M12x1		connector
additional equipment		LED indicator on the terminal box	(refer to operating manual)
current consumption		typical current consumption approx. 0,3 A	
		average power consumption approx. 7,5 W	
		short-term peak current (<0,5 s) 4 A	
		max. power consumption approx. 100 W	
operating mode	on - off	with damping -> 24 V digital control signal necessary	
limit switches		24 V digital signal	(refer to operating manual)
		tapped at terminal	

⚠ 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

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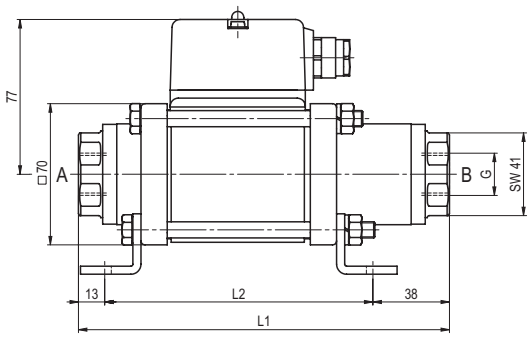
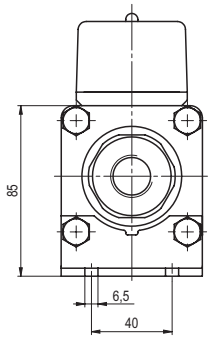
RFK 15

function: **NC**
closed when not energized





constructive length	L1	L2	L3
standard	184	133	241

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	95	65	14
40	EN 1092-1	95	65	14
100	EN 1092-1	105	75	14

function: **NC**
closed when not energized