coax® data sheet - coaxial valve

type CFM 08

09/2022

2/2-way valve	**externally controlled**
pressure range	PN 0-40 bar
orifice	DN 8 mm
connection	thread
function	valve normally closed symbol **NC**
	valve normally open symbol **NO**
operating principle	pressure balanced, with spring return
body material	① brass ②
	③ ⑤
	④ ⑥
valve seat	synthetic materials on metal
seal materials	NBR, FPM, PE PU, PTFE

⚠ 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

⚠ 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.

general specifications			**options**
ports	CFM	threads G 3/8	
function		NC	NO
pressure range	bar	0-40	
Kv value	m³/h	1.6	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		
back pressure	$P_2 > P_1$		available (max. 16 bar)
media		emulsion - oil - neutral gases	other medias upon request
abrasive media			
damping	opening		
	closing		
flow direction	A ⇨ B	as marked	
switching cycles	1/min	400	
switching time	ms	opening 70	
		closing 80	
media temperature	°C	direct mounted pilot valve 60	> 60 °C upon request
ambient temperature	°C	direct mounted pilot valve 50	> 50 °C upon request
flush ports			
leak ports			
limit switches			temperature range max 70°C
manual override		via pilot valve	
approvals			
mounting			mounting brackets
weight	kg	0.3	
additional equipment			

electrical specifications			**options**
nominal voltage	U_n	DC 24 V	special voltage upon request
	U_n	AC 230 V 50 Hz	special voltage upon request
power consumption	DC	4.8 W	2.5 W (actuation pressure range 4-7 bar)
	AC	pick up 11.0 VA holding 8.5 VA	
protection	IP65 (P54)	acc. DIN 40050	
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form B, 2 positions x180° / wire diameter 6-8 mm	
optional	M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment		illuminated plug with varistor	
max. temperature	media	60°C	
	ambient	50°C	
explosion proof	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**
actuation pressure range	bar	4-8	
air consumption	cm^3/stroke	1,2	
cycle speed			
control		via 3/2 way pilot valve	
pilot valve interface		co-ax	CNOMO upon request
actuator ports	2/4	G 1/8	

hydraulic specifications	**options**
actuation pressure range	
control	
actuator ports	
by media	

■ specifications not highlighted are standard
specifications highlighted in grey are optional

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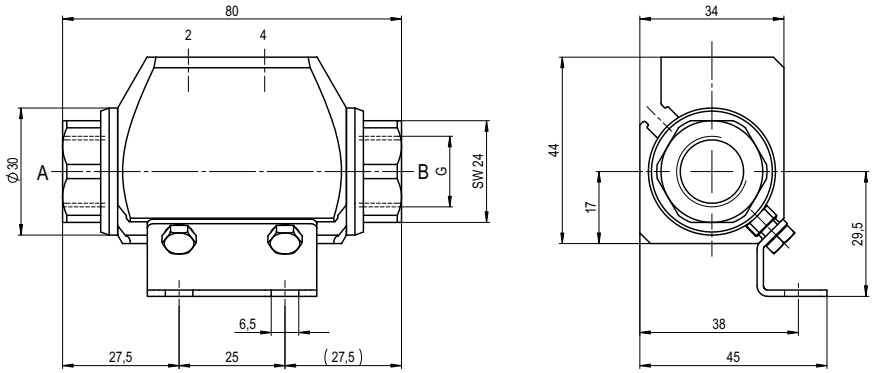
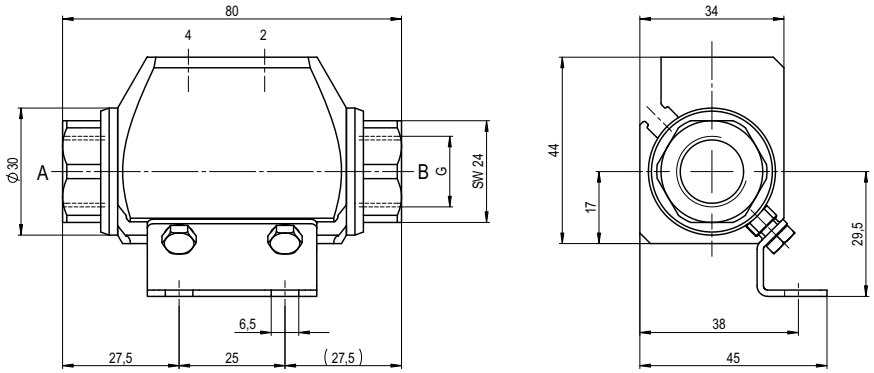
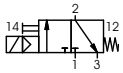
function: **NC**
closed when not energized



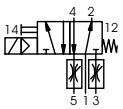
function: **NO**
open when not energized



pneumatic actuation (5/2 separately)



3/2-way pilot valve
flow rate 60 l/min
pressure range 3-10 bar



5/2 way pilot valve
flow rate 700 l/min
pressure range 3-10 bar G 1/8