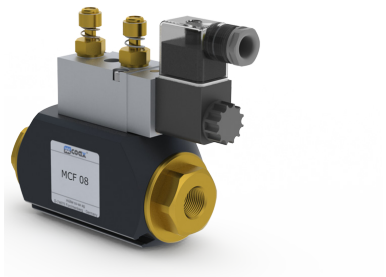
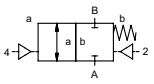
coaxial valve
type MCF 08

5-MCF 08

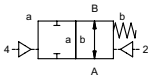
valve type with pilot valve



2/2 way valve	**externally controlled**
pressure range	PN 0-100 bar
orifice	DN 8 mm
connection	thread
function	valve normally closed symbol **NC**



valve
normally open
symbol **NO**



design	pressure balanced, with spring return
body materials	① brass ② ③ ⑤ ④ ⑥
valve seat	synthetic resin on metal
seal materials	NBR, FPM, 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
- low wattage coil, actuation pressure range 4-7 bar
- pilot valve type

general specifications			options
ports	MCF	threads G 3/8	
function		NC	NO
pressure range	bar	0-100	
Kv value	m³/h	1,6	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		pressure side max. 100 bar vacuum side leak rate upon request
back pressure	$P_2 > P_1$		available (max. 16 bar)
media		emulsions - oils - neutral gases	other medias upon request
abrasive media			
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ⇨ B	as marked	
switching cycles	1/min	600	
switching time	ms	opening 30-3000 closing 30-3000	
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	1,3	
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
	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, 4 positions x90° / wire diameter 6-8 mm	
optional	M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment		iluminated 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	4-10	3-10 upon request
air consumption	cm³/stroke	4,5	
cycle speed		main valve speed variable by throttleson pilot valve	
control		preferably 5/2 way pilot valve	
pilot valve interface		co-ax	NAMUR acc. VDI / VDE 3845
actuator ports	2/4	G 1/8	

hydraulic specifications	options
actuation pressure range	
control	
actuator ports	
by media	

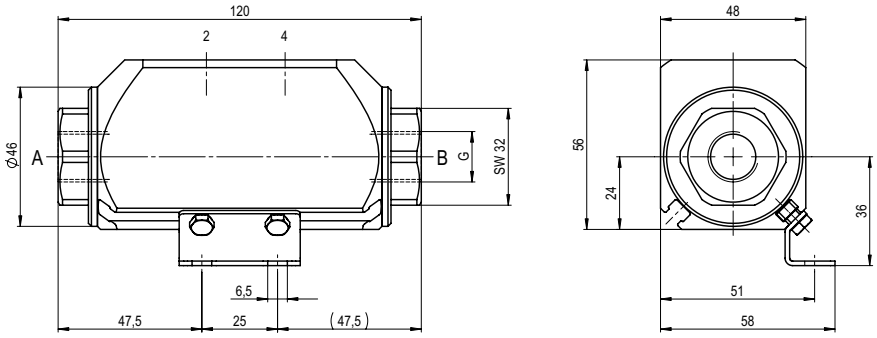
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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

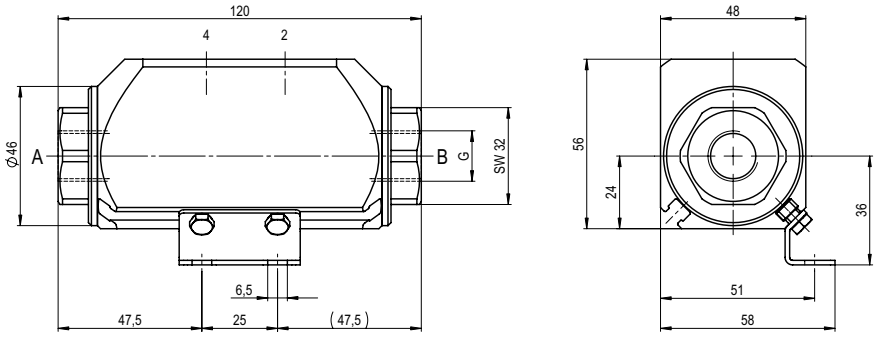
type **MCF 08**

function: **NC**
closed when not energized

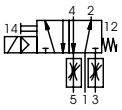


type **MCF 08**

function: **NO**
open when not energized



pneumatic actuation



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