

# 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

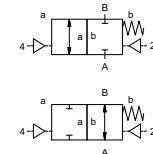
orifice DN 8 mm

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 <sup>-6</sup> mbar·l·s <sup>-1</sup>	
pressure-vacuum	P <sub>1</sub> ↔ P <sub>2</sub>	pressure side max. 100 bar vacuum side leak rate upon request	
back pressure	P <sub>2</sub> > P <sub>1</sub>	available (max. 16 bar)	
media		emulsions - oils - neutral gases other medias upon request	
abrasive media			
damping			
flow direction	opening		
switching cycles	closing	by throttles on pilot valve	
switching time	A → B	as marked	
media temperature	1/min	600	
ambient temperature	ms	opening 30-3000 closing 30-3000	
flush ports	°C	direct mounted pilot valve 60 > 60 °C upon request	
leak ports	°C	direct mounted pilot valve 50 > 50 °C upon request	
limit switches			
manual override		temperature range max 70 °C	
approvals			
mounting		via pilot valve	
weight		mounting brackets	
additional equipment	kg	1,3	

## electrical specifications

## options

nominal voltage	U <sub>n</sub> DC 24 V	special voltage upon request
	U <sub>n</sub> AC 230 V 50 Hz	special voltage upon request
power consumption	DC 4.8 W	2.5 W
protection	AC pick up 11.0 VA holding 8.5 VA	
energized duty rating	IP65 (P54) acc. DIN 40050	
connection	ED 100%	
optional	plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm	
additional equipment	M12x1 connector acc. DESINA	connector acc. VDMA
max. temperature	illuminated plug with varistor	
explosion proof	media 60°C	
	ambient 50°C	
	E Ex e II T5 nominal voltage U <sub>n</sub>	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	cm <sup>3</sup> /stroke	4,5	
cycle speed		main valve speed variable by throttles on 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

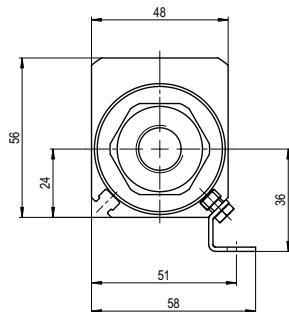
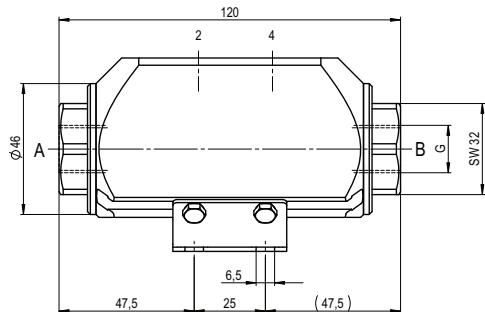
## options

actuation pressure range			
control			
actuator ports			
by media			

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

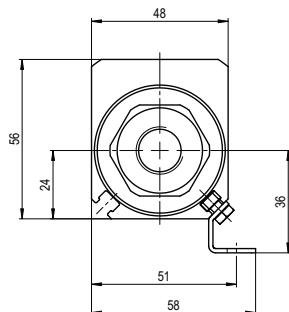
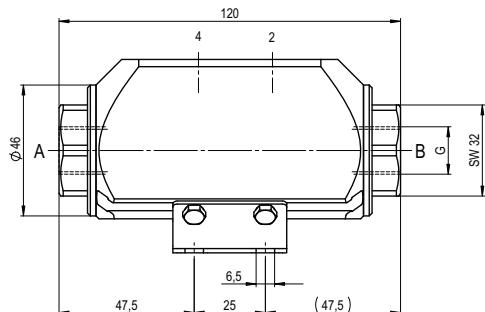
## type MCF 08

function: **NC**  
closed when not energized



## type MCF 08

function: **NO**  
open when not energized



### pneumatic actuation

