

valve manifold

type CFM 08

3-CFM 08

valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-40 bar

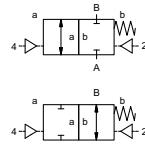
orifice DN 8 mm

connection thread

function valve

normally closed

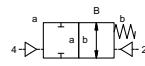
symbol NC



valve

normally open

symbol NO



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, PE

PU, PTFE

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

details needed for valve manifold

- 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

version	2-fold, 3-fold, 4-fold, 5-fold	
ports	CFM threads G 3/8	
function	NC	NO
pressure range	bar 0-40	
Kv value	m³/h 1,6	
vacuum	leak rate $\leq 10^{-6}$ mbar·l·s⁻¹	
pressure-vacuum	P ₁ ↔ P ₂	
back pressure	P ₂ > P ₁	available (max. 16 bar)
media	emulsions - oils - 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 holes	
weight	kg 2-fold 1,0 / 3-fold 1,4 / 4-fold 1,8 / 5-fold 2,2	

electrical specifications

options

nominal voltage	U _n DC 24V	special voltage upon request
	U _n AC 230V 40-60 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	IP 65 (P54) acc. DIN 40 050	
energized duty rating	ED 100%	
connection	plug acc. DIN EN 175301-803 form B, 4 positions x 90° / wire diameter 6-8 mm	
additional equipment	illuminated plug with varistor	
optional	M12x1 connector acc. DESINA	connector acc. VDMA
max. temperature	media 60°C	
	ambient 50°C	
explosion proof	EEx m II T5 nominal voltage U _n	direct current 24 V 3,25 W
	power consumption	alternating current 230 V 50 Hz 2,90 W

pneumatic specifications

options

actuation pressure range	bar 4-10	3-10 upon request
air consumption	cm³/stroke 1,2	
cycle speed		
control	by 3/2-way pilot valve	
pilot valve interface	co-ax	CNOMO upon request
actuator ports	2/4 G 1/8	

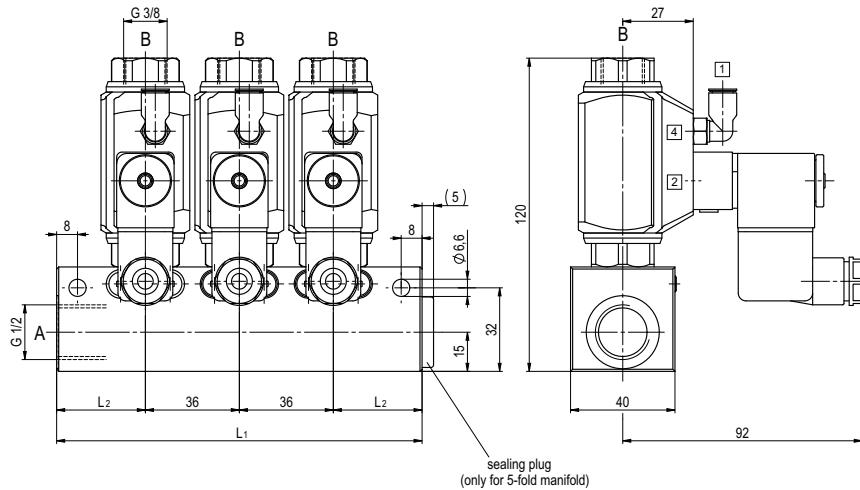
hydraulic specifications

options

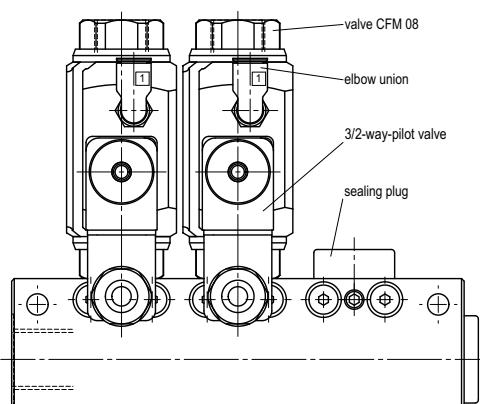
- specifications not highlighted are standard
- specifications highlighted in grey are optional

type valve manifold CFM 08

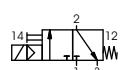
function: NC
closed when not energized



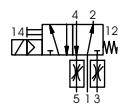
constructive length	L ₁	L ₂
2-fold	100	32
3-fold	140	34
4-fold	180	36
5-fold	210	33



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

The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

Rights reserved to make technical alterations

• Not responsible for printing errors

• Detailed drawings can be obtained upon request