

ACTIVATED CARBON FILTERS

SERIES MC

Ports: G1/4, G3/8 e G1/2
Modular
Metal bowl and bayonet-type mounting



- Removal of oil, liquid and gaseous components from compressed air through the active carbon
- Quality of delivered air according to ISO 8573-1:2010, Class [1:7:1]

The activated carbon filters Serie MC are available with port G1/4, G3/8 and G1/2.
The bowls of these filters are made of metal with a transparent sight glass.

General Data

Construction	Modular, compact with activated carbon filtering element		
Materials	Zama, NBR, tecnopolymer, activated carbon		
Ports	G1/4	G3/8	G1/2
Weight	0,342 Kg	0,718 Kg	0,688 Kg
Mounting	Vertical in line or wall-mounting		
Working temperature	10°C ÷ 40°C (t max = 60°C)		
Quality of delivered air according to ISO 8573-1:2010	Class [1:7:1]		
Condensate drain	Not present		
Working pressure	0,3 ÷ 16 bar		
Nominal flow	See FLOW DIAGRAMS on the following pages		
Filtering element	Active carbon		
Residual oil content	< 0,003 mg/m³		
Fluid	Compressed air		
Pre-filtering	It is recommended to use a filter with residual oil of 0,01mg/m³		

ACTIVATED CARBON FILTERS
SERIES MC - CODING EXAMPLES

Coding Example

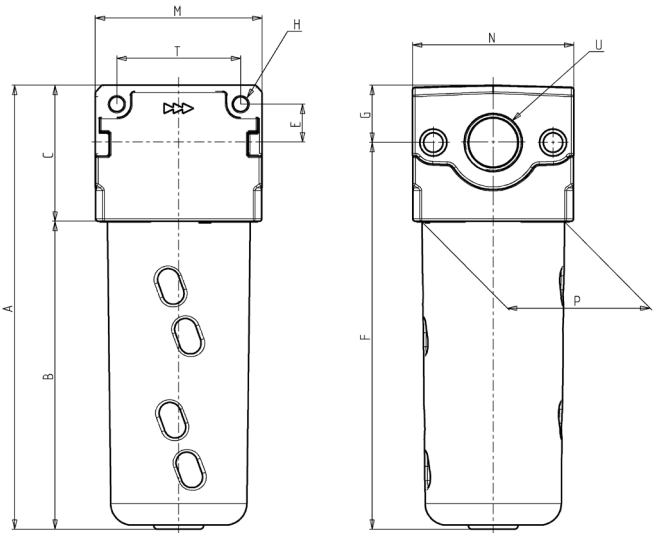
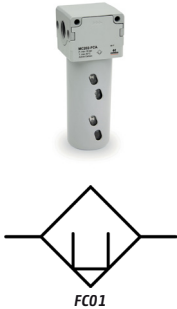
MC	2	02	-	F	CA
MC	SERIES				
2	SIZE 1 = G1/4 2 = G3/8 - G1/2				
02	PORTS 04 = G1/4 38 = G3/8 02 = G1/2				
F	FILTER				
CA	CA = Activated carbon				

AIR TREATMENT

9

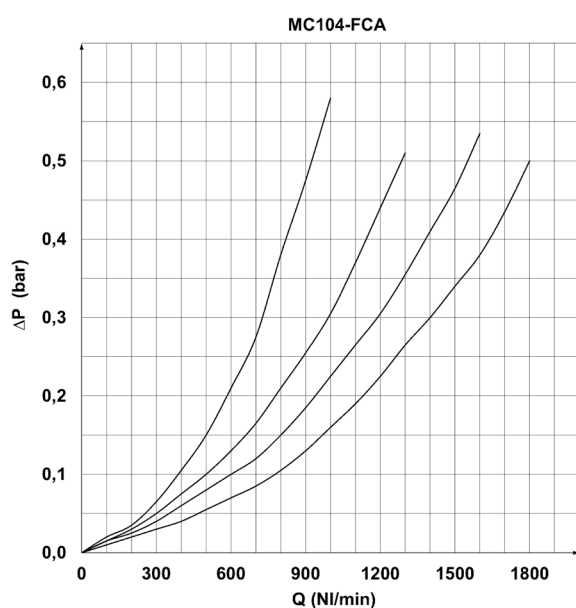
Series MC activated carbon filters

FC01 = Absorption function without bowl hole



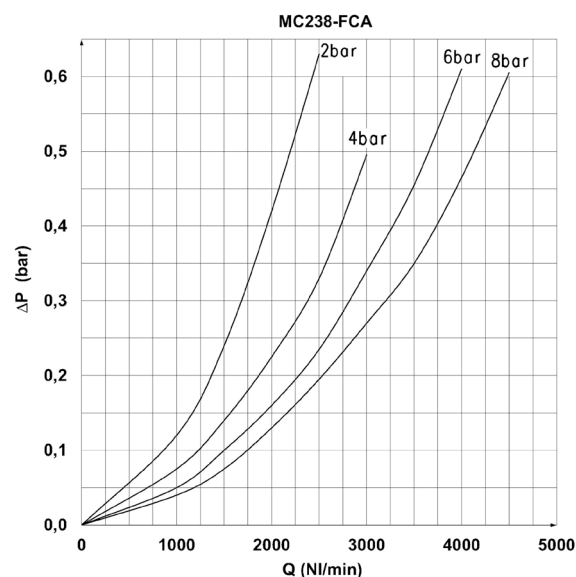
Mod.	A	B	C	E	F	G	H	M	N	P	T	U
MC104-FCA	124	83	41	11	107,5	16,5	4,5	45	45	37	35	G1/4
MC238-FCA	166	115	51	14	145	21	5,5	62	60	53	46	G3/8
MC202-FCA	166	115	51	14	145	21	5,5	62	60	53	46	G1/2

Flow diagrams



Flow diagram for model: MC104-FCA
ΔP = Pressure drop (bar)
Q = Flow (NL/min)

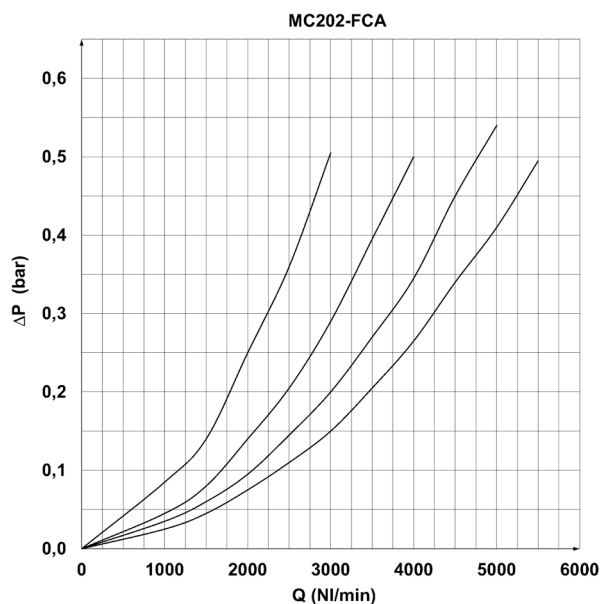
In order to guarantee the indicated performances, the maximum flow of the filter must be the one indicated in the graph. A higher flow rate is possible but the same performances are not guaranteed.



Flow diagram for model: MC238-FCA
ΔP = Pressure drop (bar)
Q = Flow (NL/min)

In order to guarantee the indicated performances, the maximum flow of the filter must be the one indicated in the graph. A higher flow rate is possible but the same performances are not guaranteed.

Flow diagram



Flow diagram for model: MC202-FCA
ΔP = Pressure drop (bar)
Q = Flow (NL/min)

In order to guarantee the indicated performances, the maximum flow of the filter must be the one indicated in the graph. A higher flow rate is possible but the same performances are not guaranteed.

ACTIVATED CARBON FILTERS SERIES MC - ACCESSORIES

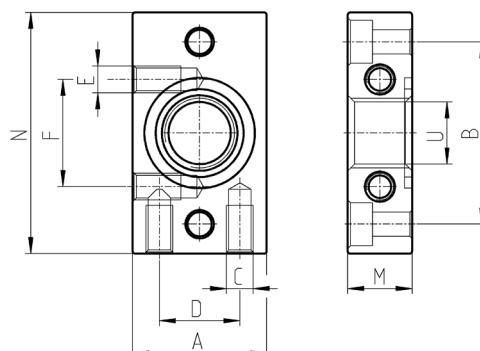
Terminal flanges (Kit A)



Materials:
painted aluminium flanges,
zinc-plated steel screws and
NBR O-ring.

The kit MC104-FL is supplied
with:
1x left flange,
1x right flange;
4x screws M4x14;
2x O-Ring 2068.

Each of the kits MC202-FL
and MC238-FL is supplied
with:
1x left flange,
1x right flange;
4x screws M5x14;
2x O-Ring 3100.



Mod.	A	B	C	D	E	F	N	M	U	Size
MC104-FL	25	34	M5	15	M5	20	45	12	G1/4	1
MC238-FL	35	44,5	M5	20	-	-	60	14	G3/8	2
MC202-FL	35	44,5	M5	20	-	-	60	14	G1/2	2

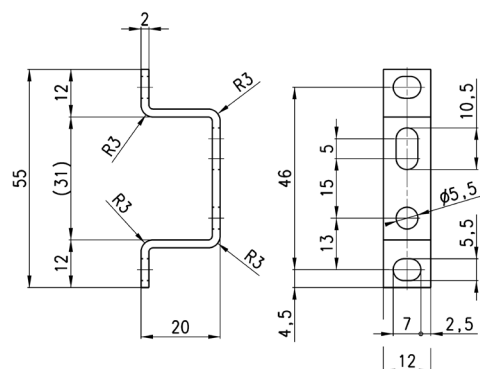
Mounting bracket for (Kit B)



**Mounting bracket for
terminals 1/4, 3/8, 1/2.**

Materials:
zinc-plated steel brackets
and screws.

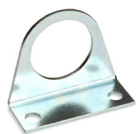
The kit MC104-ST is supplied
with:
2x terminal brackets
4x screws M5x10.



Mod.
MC104-ST

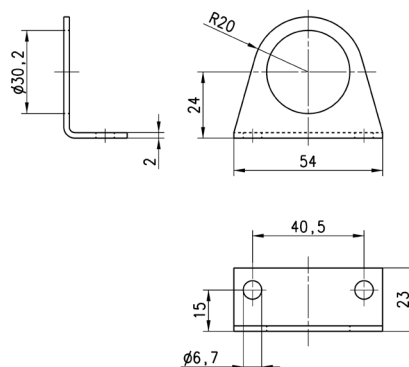
Mounting bracket Mod. C114ST

For regulators and filter-regulators MC1



Material:
zinc-plated steel

Supplied with:
1x bracket



Mod.

C114-ST

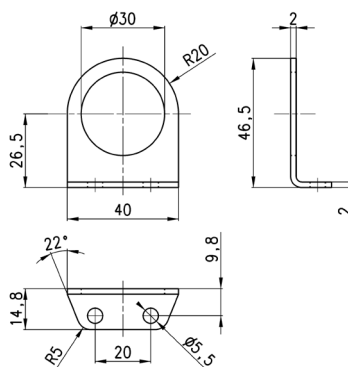
Mounting bracket Mod. 114-ST/1

For regulators and filter-regulators MC1



Material:
zinc-plated steel

Supplied with:
1x bracket



Mod.

C114-ST/1

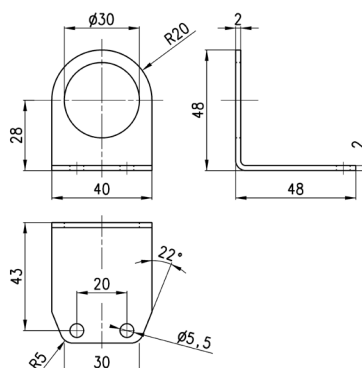
Mounting bracket C114-ST/2

For regulators and filter-regulators MC1



Material:
zinc-plated steel

Supplied with:
1x bracket



Mod.

C114-ST/2

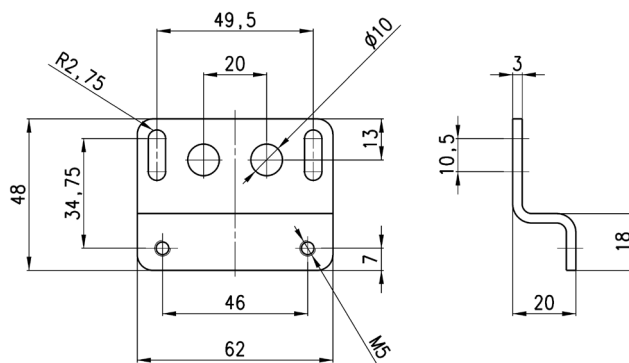
Mounting bracket Mod. C238-ST/1

For MC2



Materials:
zinc-plated steel bracket
and screws.

Supplied with:
1x bracket
2x screws M5X65.



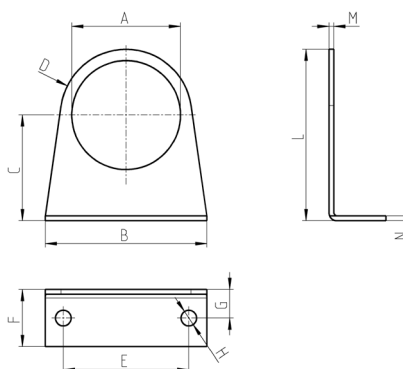
Mod.
C238-ST/1

Fixing bracket for regulators

For regulators MC2



Supplied with:
1x zinc-plated steel bracket



Mod.	A	B	C	D	E	F	G	H	L	M	N
MX2-S	Ø47,2	73	60,5	R29,5	54	25	15	Ø6,2	90	2,5	2,5

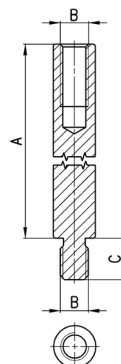
Tie-rods for assembling (Kit C)



Materials:
nickel-plated steel tie-rods
and NBR O-ring.

The kit MC1-TMF is supplied
with:
2x male/female tie-rods
1x O-ring 2068.

The kit MC2-TMF is supplied
with:
2x male/female tie-rods
1x O-ring 3100.



Mod.	A	B	C	Size
MC1-TMF	45	M4	6	1
MC2-TMF	62	M5	6	2

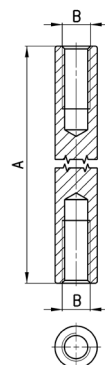
Tie-rods for assembling (Kit D)



Materials:
nickel-plated steel tie-rods.

The kit MC1-TFF is supplied with:
2x female tie-rods.

The kit MC2-TFF is supplied with:
2x female tie-rods.



Mod.	A	B	Size
MC1-TFF	44	M4	1
MC2-TFF	61	M5	2

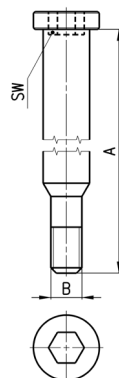
Screws for assembling (Kit E)



Materials:
zinc-plated steel screws and
NBR O-ring.

The kit MC1-VM is supplied with:
2x male screws
1x O-ring 2068.

The kit MC2-VM is supplied with:
2x male screws
1x O-ring 3100.



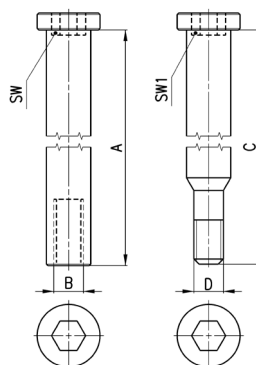
Mod.	A	B	SW	Size
MC1-VM	48,5	M4	3	1
MC2-VM	65,5	M5	4	2

Screws for assembling (Kit F)



Materials:
zinc-plated steel male
screws, nickel-plated steel
female screws and NBR
O-ring.

The kit is supplied with:
2x male screws
2x female screws
1x O-ring (OR 2068 for MC1-
VMF; OR 3100 for MC2-VMF).



Mod.	A	B	C	D	SW	SW1	Size
MC1-VMF	42	M4	48,5	M4	3	3	1
MC2-VMF	59	M5	68,5	M5	4	4	2

ACTIVATED CARBON FILTERS
SERIES MC - ACCESSORIES

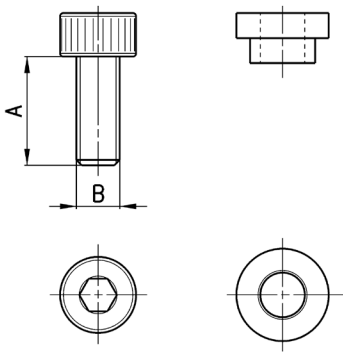
Screws (Kit G) to assemble 2 bodies type "M"



Materials:
zinc-plated steel screws,
brass spacers and NBR
O-ring.

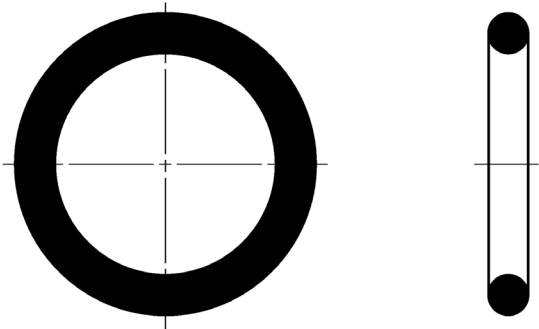
The kit MC1-VMD is supplied
with:
4x screws M4X10
4x spacers
2x O-ring 2068.

The kit MC2-VMD is supplied
with:
4x screws M5X12
4x spacers
2x O-ring 3100.



Mod.	A	B	Size	
MC1-VMD	10	M4	1	*
MC2-VMD	12	M5	2	*

O-ring for assembling

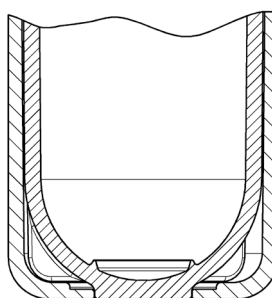


Mod.	O-ring	For assembly
160-39-11/19	OR 3125	MX2
OR 38x2,8 NBR	OR 38x2,8	MX3

Closed bowl



Assembled with Activated carbon filter.



Mod. filter	Closed bowl
N20...-FCA	N2-L71
MC104-FCA	MC1-L71
MC202-FCA	MC2-L71
MC238-FCA	MC2-L71
MX2...-FCA	MX2-L2-P
MX3...-FCA	MX3-L2-P
MD1-FCA..	MD1-FCASP01

Activated carbon filter



Assembled with Closed bowl.

Mod. filter	Activated carbon
N20...-FCA	MX1-F11
MC104-FCA	MX1-F11
MC202-FCA	MX2-F11
MC238-FCA	MX2-F11
MX2...-FCA	MX2-F11
MX3...-FCA	MX3-F11
MD1-FCA..*	MD1-F11