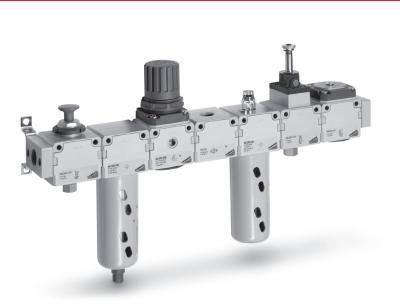
## Assembled FRL Series MC

Ports G1/4, G3/8 and G1/2



- » Clean design
- » Great modularity
- » Easy maintenance

The FRL Series MC in the assembled version can be easily assembled by means of modular tie rods on which it is possible to mount the single elements without any limits in the composition. The FRL groups Series MC are available already mounted (with a single code).

The connections can be made directly on the elements or on the terminal flanges (Kit A) with the advantage that in case of maintenance the group can be extracted without disconnecting the tubing. The version with flanges is supplied without tie-rods.

#### **GENERAL DATA**

Construction modular, compact Materials zama, NBR, technopolymer Ports G1/4 - G3/8 - G1/2

Mounting vertical, in-line or wall-mounting

Operating temperature -5°C ÷ 50°C at 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)

Finish

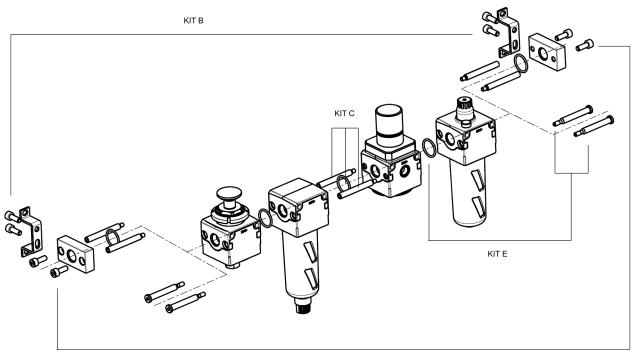
determined at 6 bar inlet supply with  $\Delta P$  1 bar ( $\Delta P$  0,5 only for FRL) Flow



#### COMPOSITION OF THE KITS

- EXAMPLE BODY TYPE [ M ] with female no through threads: regulator filter-regulator Manifold regulator group, an assembly of more manifold regulators counts as a body type "M".
- EXAMPLE BODY TYPE [P] with through holes: filter lubricator soft start valve take off block isolation valve

The "x" in the codes in the following table refer to the size, see the section 3/05.07 [ Accessories for FRL ]



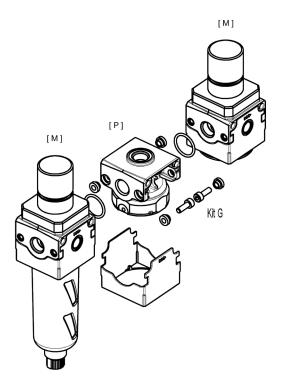
K	ľ	Γ	A

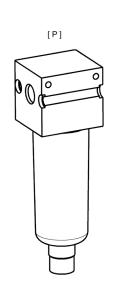
Mod.	Description	Supplied with:
MCxxx-FL	Kit A	1 right flange 1 left flange 4 screws - 2 O-ring
MCxxx-ST	Kit B	2 brackets + 4 screws
MCx-TMF	Kit C	2 tie rods male-female 1 O-ring
MCx-TFF	Kit D	2 tie rods female-female
MCx-VM	Kit E	2 male screws 1 O-ring
MCx-VMF	Kit F	2 male screws 2 female screws 1 O-ring
MCx-VMD	Kit G	4 screws 4 spacers + 2 O-ring To be used on a body type "P" positioned in between two body types "M".

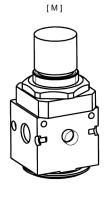




- the body types [M] are with female no through threads
- the body types [P] are with through holes

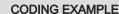






Assembly between types P and M	KIT for ass. without terminal flanges	KIT for ass. with terminal flanges
P+M	1 kit E	1 Kit A + 1 Kit C
M + P	1 kit E	1 Kit A + 1 Kit C
P+P	1 Kit F	1 Kit A + 1 Kit C + 1 Kit D
P+M+P	2 Kit E	1 Kit A + 2 Kit C
P+P+P	1 Kit F + 1 Kit C	1 Kit A + 2 Kit C + 1 Kit D
M+P+P	1 Kit E + 1 Kit C	1 Kit A + 2 Kit C
M + P + M	1 Kit G	1 Kit A + 1 Kit G
P+M+P+P	2 Kit E + 1 Kit C	1 Kit A + 3 Kit C
P+P+M+P+P	2 Kit F + 2 Kit C	1 Kit A + 4 Kit C

CK CAMOZZI



C 02 FL MC 2

MC = SERIES MC

SIZE 2

1 = G1/4 2 = G3/8 - G1/2

PORT 04 = G1/4 38 = G3/8 02 = G1/2 02

ASSEMBLY GROUP C C = D + LC=D+L E=V01+D+L FRL=F+R+L GN=D+L+V16+AV HNA=V01+D+L+V16+AV+PRESS NO HNC=V01+D+L+V16+AV+PRESS NC

HNC = V01 + D + L + V16 + AV + PRESS N = V01 + D + PN = D + V16 + AV QN = V01 + D + V16 + AV TN = V01 + D + L + V16 + AV U = F13 + FB3 (only for 3/8 - 1/2) ZNA = V01 + D + V16 + AV + PRESS NO ZNC = V01 + D + V16 + AV + PRESS NC

FILTERING ELEMENT 5  $5 = 5 \mu m$  (standard) 25 = 25  $\mu m$  (upon request)

VERSION FL FL = with terminal flanges (without brackets)

D = Filter-regulator 0.5-10 bar, semi-automatic-manual drain with relieving, filtering element 5  $\mu$ m or 25  $\mu$ m L = Lubricator

L = Luoricator
V01 = 3/2-way manually operated valve
F = Filter 5 µm or 25 µm
R = Regulator 0.5-10 bar with relieving
V16 = 3/2-way electropneumatically operated valve

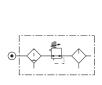
AV = Soft start valve
PRESS NO = Pressure switch, Normally Open

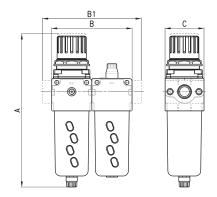
PRESS NC = Pressure switch, Normally Closed F13 = Filter 5 µm with automatic drain FB3 = Coalescing filter 0.01 µm with automatic drain

### Assembly group C

Components: Filter-regulator Lubricator





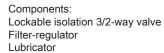


DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-C-5	193,5	90	-	45	1450
MC238-C-5	256,5	124	-	60	4800
MC202-C-5	256,5	124	-	60	4900
MC104-C-5-FL	193,5	-	114	45	1450
MC238-C-5-FL	256,5	-	152	60	4800
MC202-C-5-FL	256,5	-	152	60	4900

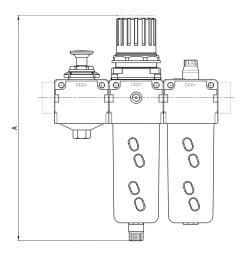


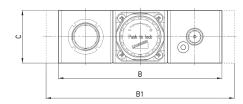




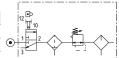








DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-E-5	193,5	135	-	45	1450
MC238-E-5	256,5	186	-	60	4800
MC202-E-5	256,5	186	-	60	4950
MC104-E-5-FL	193,5	-	159	45	1450
MC238-E-5-FL	256,5	-	214	60	4800
MC202-E-5-FL	256,5	-	214	60	4950

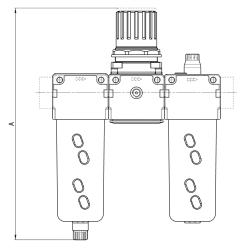


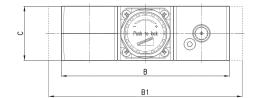


### Assembly group FRL

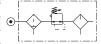
Components: Filter Regulator Lubricator







DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-FRL-5	193	135	-	45	1450
MC238-FRL-5	256,5	186	-	60	4800
MC202-FRL-5	256,5	186	-	60	4900
MC104-FRL-5-FL	193,5	-	159	45	1450
MC238-FRL-5-FL	256,5	-	214	60	4800
MC202-FRL-5-FL	256,5	-	214	60	4900



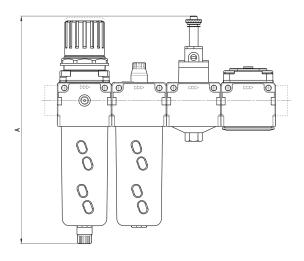


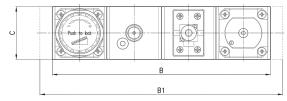


### Assembly group GN

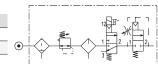


Components: Filter-regulator Lubricator Lockable isolation 3/2-way valve Soft start valve





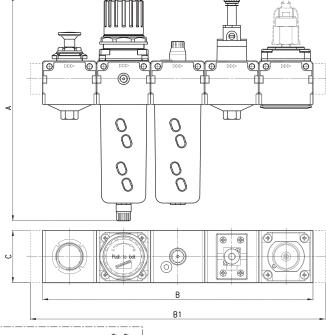
DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-GN-5	208	180	-	45	1450
MC238-GN-5	259	248	-	60	4800
MC202-GN-5	259	248	-	60	4900
MC104-GN-5-FL	208	-	204	45	1450
MC238-GN-5-FL	259	-	276	60	4800
MC202-GN-5-FL	259	-	276	60	4950



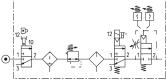
### Assembly group HN...



Components: Lockable isolation 3/2-way valve Filter-regulator Lubricator Lockable isolation 3/2-way valve Soft start valve + pressure switch (NC)

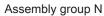


DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-HN5	208	225	-	45	1450
MC238-HN5	259	310	-	60	4800
MC202-HN5	259	310	-	60	4950
MC104-HN5-FL	208	-	249	45	1450
MC238-HN5-FL	259	-	338	60	4800
MC202-HN5-FL	259	_	338	60	4950



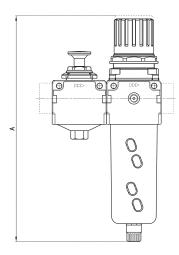


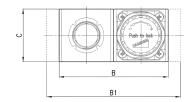




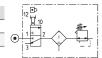
Components: Lockable isolation 3/2-way valve Filter-regulator







DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-N-5	193,5	90	-	45	1450
MC238-N-5	256,5	124	-	60	4800
MC202-N-5	256,5	124	-	60	4950
MC104-N-5-FL	193,5	-	114	45	1450
MC238-N-5-FL	256,5	-	152	60	4800
MC202-N-5-FL	256,5	-	152	60	4950

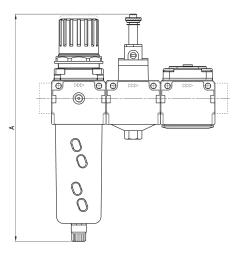


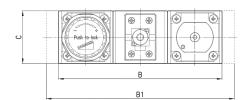


### Assembly group PN

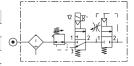
Components: Filter-regulator Lockable isolation 3/2-way valve Soft start valve







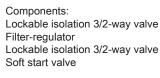
DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-PN-5	208	135	-	45	1450
MC238-PN-5	259	186	-	60	4800
MC202-PN-5	259	186	-	60	4950
MC104-PN-5-FL	208	-	159	45	1450
MC238-PN-5-FL	259	-	214	60	4800
MC202-PN-5-FL	259	-	214	60	4950

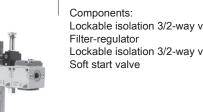


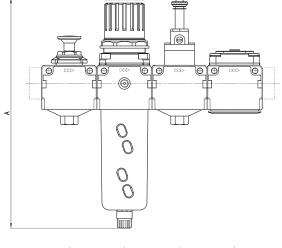


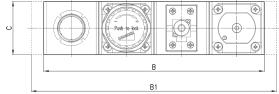


### Assembly group QN

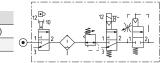








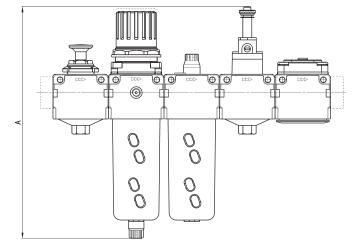
DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-QN-5	208	180	-	45	1450
MC238-QN-5	259	248	-	60	4800
MC202-QN-5	259	248	-	60	4950
MC104-QN-5-FL	208	-	204	45	1450
MC238-QN-5-FL	259	-	276	60	4800
MC202-QN-5-FL	259	-	276	60	4950

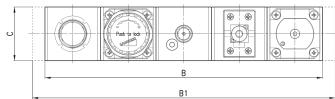


# Assembly group TN

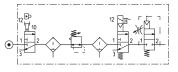


Components: Lockable isolation 3/2-way valve Filter-regulator Lubricator Lockable isolation 3/2-way valve Soft start valve





DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC104-TN-5	208	225	-	45	1450
MC238-TN-5	259	310	-	60	4800
MC202-TN-5	259	310	-	60	4950
MC104-TN-5-FL	208	-	249	45	1450
MC238-TN-5-FL	259	-	338	60	4800
MC202-TN-5-FL	259	-	338	60	4950



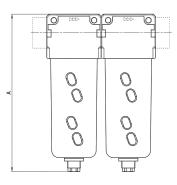


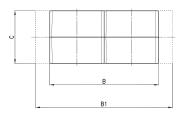


Assembly group U

Components: Filter Coalescing filter







DIMENSIONS					
Mod.	Α	В	B1	С	Flow rate (NI/min)
MC238- U-5	180	124	-	60	2050
MC202- U-5	180	124	-	60	2300
MC238-U-5-FL	180	-	152	60	2050
MC202-U-5-FL	180	-	152	60	2300





### Assembly group ZN...

Components: Lockable isolation 3/2-way valve Filter-regulator Lockable isolation 3/2-way valve Soft start valve + pressure switch (NO or NC)



