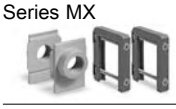
3 / 1 Series MX Modular FRL Units

		Section	Page
Series MX	**Filters** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	3/1.05	801
Series MX	**Coalescing filters** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	3/1.10	805
Series MX	**Activated carbon filters** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	3/1.15	809
Series MX	**Pressure regulators** MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1 Manifold ports: G1/2 (MX2 only). Modular Available with built-in pressure gauges or with ports for gauges	3/1.20	812
Series MX	**Lubricators** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	3/1.25	817
Series MX	**Filter-regulators** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Bowl with technopolymer cover and bayonet-type mounting	3/1.30	820
Series MX	**Lockable isolation 3/2-way valves** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1. Modular Manual, electro-pneumatic, servo-pilot and pneumatic control	3/1.35	824
Series MX	**Soft start valves** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1 Modular	3/1.40	829
Series MX	**Take-off blocks** MX2 port: G1/2 MX3 port: G1 Modular	3/1.45	833
Series MX 	**Accessories** Systems of rapid connections designed to make the mouting easier	3/1.49	836
Series MX	**Assembled FRL** MX2 ports: G3/8, G1/2, G3/4 MX3 ports: G3/4, G1 Assembly through rapid clamps	3/1.50	841

3 / 2 Series MC Modular FRL Units

		Section	Page
Series MC	**Filters** Ports: G1/4, G3/8, G1/2 Modular Metal bowl and bayonet-type mounting	3/2.05	852
Series MC	**Coalescing filters** Ports: G1/4, G3/8, G1/2 Modular Metal bowl and bayonet-type mounting	3/2.10	855
Series MC	**Pressure regulators** Ports: G1/4, G3/8, G1/2 Modular	3/2.15	858
Series MC	**Lubricators** Ports: G1/4, G3/8, G1/2 Modular With metal bowl and bayonet-type mounting	3/2.20	861
Series MC	**Filter-regulators** Ports: G1/4, G3/8, G1/2 Modular Metal bowl and bayonet-type mounting	3/2.25	864
Series MC	**Lockable isolation 3/2-way valves** Electropneumatic, pneumatic and manual version Modular Ports: G1/4, G3/8, G1/2	3/2.30	867
Series MC	**Soft start valves** Ports: G1/4, G3/8, G1/2 Modular	3/2.35	871
Series MC	**Take-off blocks** Ports: G1/4, G1/2 Modular	3/2.40	874
Series MC	**Accessories** Systems of rapid connections designed to make the mouting easier	3/2.44	876
Series MC	**Assembled FRL** Ports: G1/4, G3/8, G1/2	3/2.45	881
Series MC	**Manifold pressure regulators** Ports: G1/4 Modular	3/2.50	890

3 / 3 Pressure regulators

		Section	Page
Series CLR	**Micro pressure regulators** Ports: G1/8, G1/4 Micro pressure regulators with or without banjo in technopolymer	3/3.03	894
Series M	**Pressure microregulators** Ports: G1/8, G1/4	3/3.05	897
Series T	**Pressure microregulators** Ports: G1/8, G1/4	3/3.10	900
Series M, T	**Accessories** Systems of rapid connections designed to make the mouting easier	3/3.12	902
Series PR	**Precision regulators with manual override** Port: G1/4	3/3.15	904

3 / 4 FRL Units

		Section	Page
Series N	**Filters and coalescing filters** Ports: G1/8, G1/4 With screw-on transparent bowl	3/4.05	908
Series N	**Pressure regulators** Ports: G1/8, G1/4	3/4.10	911
Series N	**Lubricators** Ports: G1/8, G1/4 With screw-on transparent bowl	3/4.15	914
Series N	**Filter-regulators** Ports: G1/8, G1/4 With screw-on transparent bowl	3/4.20	917
Series N	**Accessories** Systems of rapid connections designed to make the mouting easier	3/4.25	920

3 / 5 Accessories for the air treatment

		Section	Page
Series M043, M053, M063	**Pressure gauges** Precision classe CL1,6	3/5.05	923
Series PG	**Digital pressure gauges** Possibility of a direct mounting with rear or panel connection	3/5.06	926
Series MX, MC, N	**Condensate drains Filtering elements** Semi-automatic manual drain; Automatic drain; Depressurisation drain; Depressurisation drain, protected Port 1/8 (without drain)	3/5.10	930

Series MX filters

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular
Bowl with technopolymer cover and bayonet-type mounting

- Removal of impurities and condensate
- High flow with minimum pressure decreases
- Cartridge filters of 25 or 5 µm
- Manual, automatic or depressuring drain
- Bowl locking system reducing the risk of accidents

MX is the new series of air treatment components realized by Camozzi, characterized by a modern, linear and compact design, offering high performances. The perfect integration between metal alloys and technopolymers has allowed the realization of a reliable product, light and strong at the same time. Thanks to a new concept of modularity, moreover, the mounting of components has become easier.

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs.
A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact with filtering element in HDPE
Materials	see TABLE OF MATERIALS (pag. 3/1.05.02)
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Condensate capacity	MX2: 55 cc MX3: 85 cc
Mounting	vertical in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Porosity of filtering element	25 µm (standard) 5 µm
Draining of condensate	MX2: manual-semi automatic (standard), automatic, depressurization protected, without drain with port G1/8 MX3: manual-semi automatic (standard), without drain with port G1/8
Operating pressure	0,3 ÷ 16 bar (with automatic drain 1,5 ÷ 12 bar)
Nominal flow	see FLOW DIAGRAMS (pag. 3/1.05.03)
Fluid	compressed air

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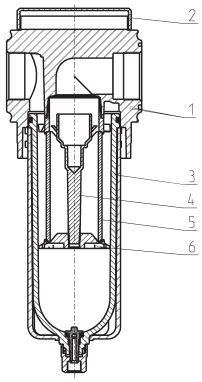
CODING EXAMPLE

MX	2	-	3/8	-	F	0	0	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
F	FILTER
0	FILTERING ELEMENT: 0 = 25 µm (standard) 1 = 5 µm
0	DRAINING OF CONDENSATE: 0 = semiautomatic-manual drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = without drain, with port G1/8
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Filters Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide
4 = Valve-guide	Polyacetal
5 = Filtering element	Polyethylene
6 = Separation deflector	Polyacetal
Seals	NBR

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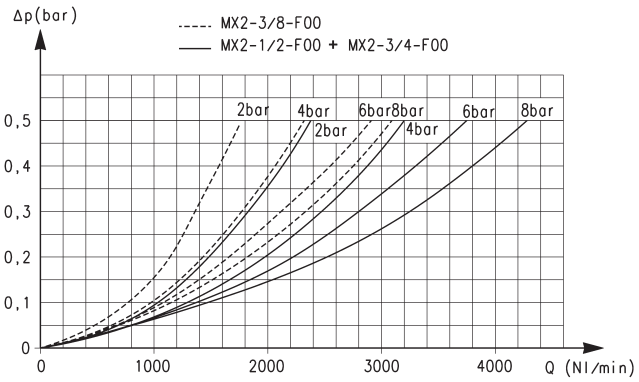
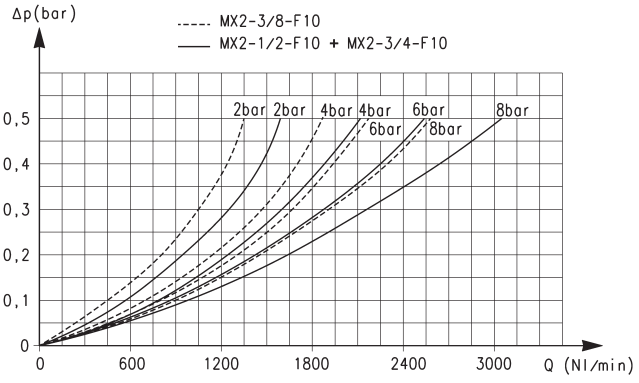
MX2 FLOW DIAGRAMS



Reference diagram for models with filtering element = 25 µm

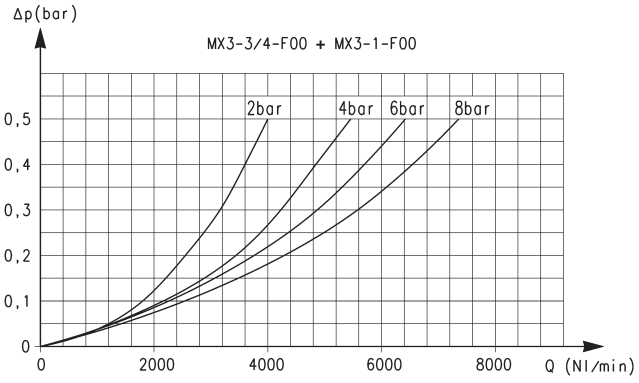
Δp = Pressure drop
Q = Flow



Reference diagram for models with filtering element = 5 µm

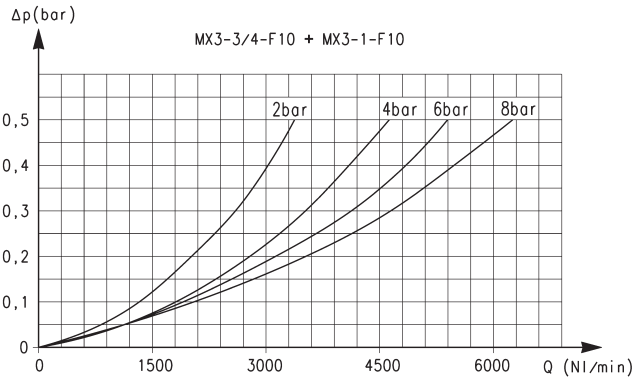
Δp = Pressure drop
Q = Flow

MX3 FLOW DIAGRAMS



Reference diagram for models with filtering element = 25 µm

Δp = Pressure drop
Q = Flow



Reference diagram for models with filtering element = 5 µm

Δp = Pressure drop
Q = Flow

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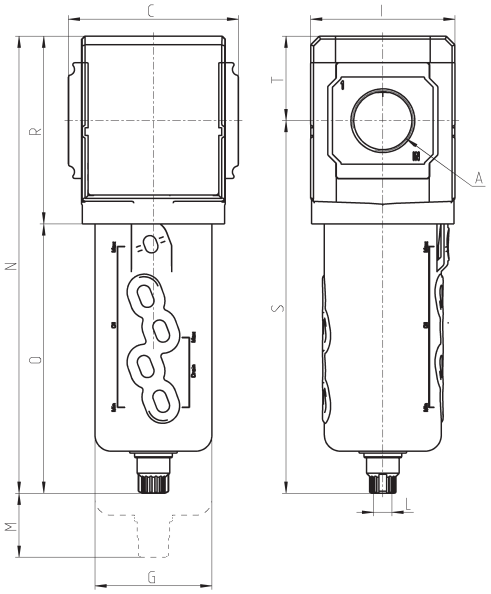
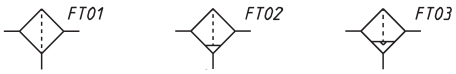
Filters Series MX - dimensions



Mod.	A	C	G	I	L	M	N	O	R	S	T	Weight (Kg)
MX2-3/8-F00	G3/8	70	55,3	68	G1/8	57,5	212	127	85	174,5	37,5	0.5
MX2-1/2-F00	G1/2	70	55,3	68	G1/8	57,5	212	127	85	174,5	37,5	0.5
MX2-3/4-F00	G3/4	70	55,3	68	G1/8	57,5	212	127	85	174,5	37,5	0.5
MX3-3/4-F00	G3/4	89,5	61,5	76	G1/8	75	241	142	99	196,5	44,5	0.8
MX3-1-F00	G1	89,5	61,5	76	G1/8	75	241	142	99	196,5	44,5	0.8



FT01 = filter without drain with threaded port

FT02 = filter with semiautomatic manual drain

FT03 = filter with automatic or depressuring drain

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Series MX coalescing filters

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular
Bowl with technopolymer cover and bayonet-type mounting

- High performance and compressed air purity
- Air quality according to ISO 8573-1 standard
- Cartridge filters 1 or 0,01 µm
- Manual, automatic or depressing drain
- Bowl locking system reducing the risk of accidents

MX is the new series of air treatment components realized by Camozzi, characterized by a modern, linear and compact design, offering high performances. The perfect integration between metal alloys and technopolymers has allowed the realization of a reliable product, light and strong at the same time. Thanks to a new concept of modularity, moreover, the mounting of components has become easier.

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact	
Materials	see TABLE OF MATERIALS (pag. 3/1.10.02)	
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1	
Condensate capacity	MX2: 55 cc MX3: 85 cc	
Mounting	vertical in-line wall-mounting (by means of clamps)	
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)	
Draining of condensate	MX2: manual-semi automatic (standard), automatic, depressurization protected, without drain with port G1/8 MX3: manual-semi automatic (standard), without drain with port G1/8	
Operating pressure	0,3 ÷ 16 bar (with automatic drain 1,5 ÷ 12 bar)	
Nominal flow	see FLOW DIAGRAMS (pag. 3/1.10.03)	
Porosity of filtering element	0,01 µm	1 µm
Residual oil content with inlet at 3 mg/m³	< 0,01mg/m³	< 0,1mg/m³
Oil retain efficiency	99,80%	97%
Particles retain efficiency	99,99999%	99,999%
Fluid	compressed air	
Pre-filtering with filtering element of 1 µm	it is recommended to use a filter of 5 µm	
Pre-filtering with filtering element of 0,01 µm	it is recommended to use a filter with residual oil of 0,1 mg/m³	

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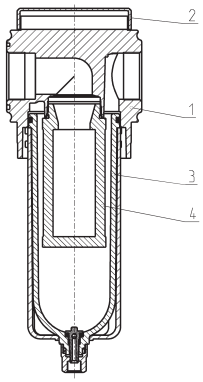
CODING EXAMPLE

MX	2	-	3/8	-	FC	0	0	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORTS: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
FC	COALESCING FILTER
0	FILTERING ELEMENT: 0 = 0,01 µm (standard) 1 = 1 µm
0	DRAINING OF CONDENSATE: 0 = semiautomatic-manual drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = without drain, with port G1/8
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Coalescing filters Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide
4 = Filtering element	Borosilicate
Seals	NBR

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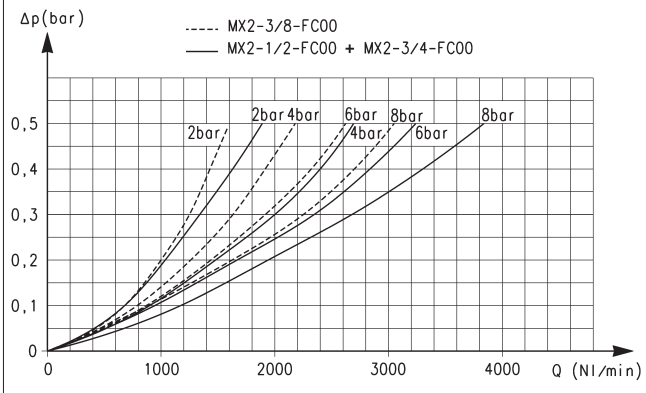
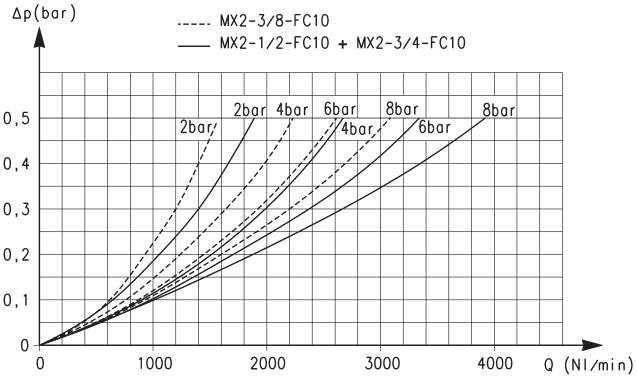
MX2 FLOW DIAGRAMS



Reference diagram for models with filtering element = 0,01 µm

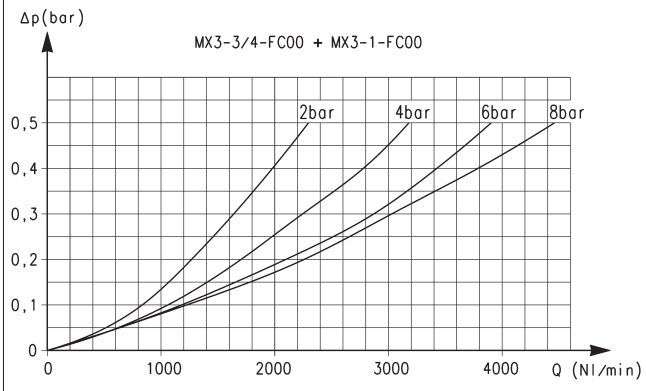
Δp = Pressure drop
Q = Flow



Reference diagram for models with filtering element = 1 µm

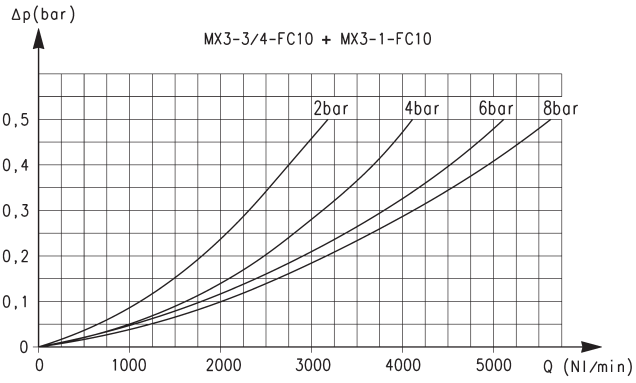
Δp = Pressure drop
Q = Flow

MX3 FLOW DIAGRAMS



Reference diagram for models with filtering element = 0,01 µm

Δp = Pressure drop
Q = Flow



Reference diagram for models with filtering element = 1 µm

Δp = Pressure drop
Q = Flow

Products designed for industrial applications.
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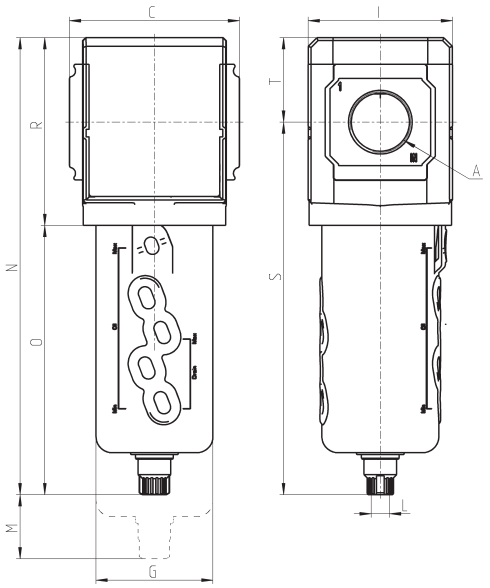
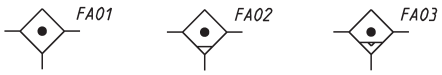
Coalescing filters Series MX - dimensions



Mod.	A	C	G	I	L	M	N	O	R	S	T	Weight (Kg)
MX2-3/8-FC00	G3/8	70	55,3	68	G1/8	52	212	127	85	174,5	37,5	0.5
MX2-1/2-FC00	G1/2	70	55,3	68	G1/8	52	212	127	85	174,5	37,5	0.5
MX2-3/4-FC00	G3/4	70	55,3	68	G1/8	52	212	127	85	174,5	37,5	0.5
MX3-3/4-FC00	G3/4	89,5	61,5	76	G1/8	75	241	142	99	196,5	44,5	0.8
MX3-1-FC00	G1	89,5	61,5	76	G1/8	75	241	142	99	196,5	44,5	0.8



FA01 = coalescing filter without drain with threaded port

FA02 = coalescing filter with semi-automatic manual drain

FA03 = coalescing filter with automatic or depressuring drain

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Series MX
activated carbon filters

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular
Bowl with technopolymer cover and bayonet-type mounting

- Removal of compressed air oil, liquid, and gas components through the active carbons
- Air quality in compliance with ISO 8573-1 standard, up to class 1.7.1
- Bowl locking system reducing the risk of accidents

MX is the new series of air treatment components realized by Camozzi, characterized by a modern, linear and compact design, offering high performances. The perfect integration between metal alloys and technopolymers has allowed the realization of a reliable product, light and strong at the same time. Thanks to a new concept of modularity, moreover, the mounting of components has become easier.

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact with activated carbon filtering element
Materials	see TABLE OF MATERIALS (pag. 3/1.15.02)
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Mounting	vertical in-line wall-mounting (by means of clamps)
Operating temperature	10°C ÷ 40°C (t max = 60°C)
Draining of condensate	NO DRAINING
Operating pressure	0,3 ÷ 16 bar
Nominal flow	see FLOW DIAGRAMS (pag. 3/1.15.03)
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

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

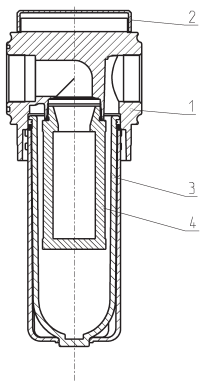
CODING EXAMPLE

MX	2	-	3/8	-	FCA	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
FCA	ACTIVATED CARBON FILTER
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Activated carbon filters Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide
4 = Filtering element	Active carbon
Seals	NBR

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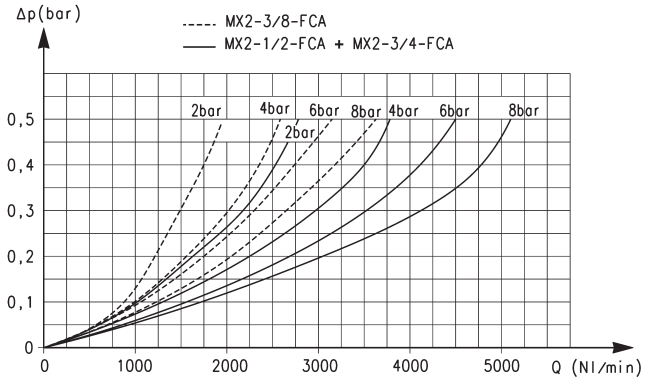
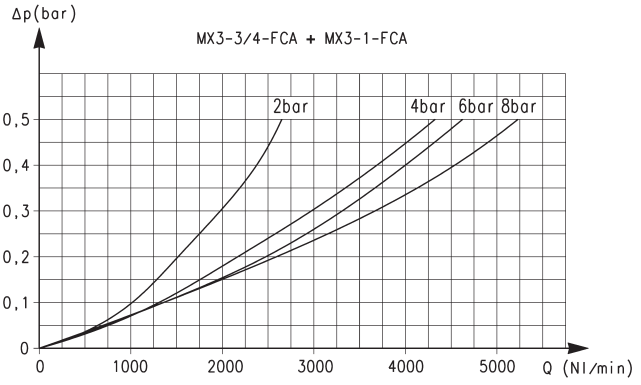
FLOW DIAGRAMS



Reference diagram for MX2

Δp = Pressure drop
Q = Flow

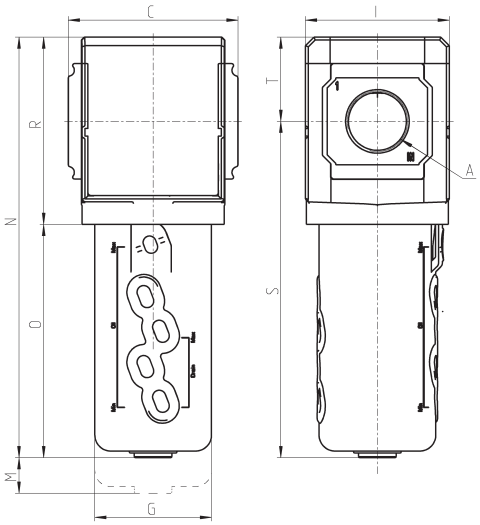


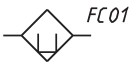
Reference diagram for MX3

Δp = Pressure drop
Q = Flow

3 TREATMENT

Activated carbon filters Series MX - dimensions





Mod.	A	C	G	I	M	N	O	R	S	T	Weight (Kg)
MX2-3/8-FCA	G3/8	70	55,3	68	89,5	189,5	104,5	85	152	37,5	0.5
MX2-1/2-FCA	G1/2	70	55,3	68	89,5	189,5	104,5	85	152	37,5	0.5
MX2-3/4-FCA	G3/4	70	55,3	68	89,5	189,5	104,5	85	152	37,5	0.5
MX3-3/4-FCA	G3/4	89,5	61,5	76	107	222	123	99,0	177,5	44,5	0.8
MX3-1-FCA	G1	89,5	61,5	76	107	222	123	99,0	177,5	44,5	0.8

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Series MX pressure regulators

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Manifold ports: G1/2 (MX2 only)
Modular - Available with built-in pressure gauges or ports for gauges

- Minimal pressure decreases
- Knob with closure
- Tamper-proof system (lockable regulator)
- Integral return exhaust (relieving)
- Manifold version also available

The availability of constant values of the secondary pressure ensures performance optimization and energy saving. The tamper-proof system allows to adjust pressure safely through 2 intervals with primary pressure compensation. All regulators are equipped with an integrated locking system and built-in pressure gauges for a more compact product. The regulators Series MX are suitalbe also for panel mountings.

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact, diaphragm type
Materials	see TABLE OF MATERIALS (pag. 3/1.20.02)
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1 Manifold regulator: G1/2 (MX2 only)
Mounting	vertical in-line wall-mounting (by means of clamps) panel mouting
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Inlet pressure	0 ÷ 16 bar
Outlet pressure	0,5 ÷ 10 bar (standard) 0 ÷ 4 bar 0,5 ÷ 7 bar (MX2 only)
Overpressure exhaust	with relieving (standard) without relieving
Nominal flow	see FLOW DIAGRAMS (pag. 3/1.20.03)
Fluid	compressed air
Pressure gauge	version with built-in pressure gauge (standard) version with G1/4 ports for pressure gauge (MX3 only) version with G1/8 ports for pressure gauge (MX2 only)

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CODING EXAMPLE

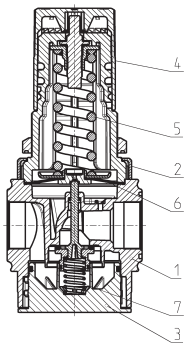
MX	2	-	3/8	-	R	0	0	4	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORTS: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
R	TYPER OF REGULATOR: R = pressure regulator M = Manifold pressure regulator (MX2 - G1/2 only)
0	OPERATING PRESSURE (1 bar = 14,5 psi) 0 = 0,5 ÷ 10 bar (standard) 4 = 0 ÷ 4 bar 7 = 0,5 ÷ 7 bar (MX2 only)
0	DESIGN TYPE: 0 = relieving (standard) 1 = without relieving
4	PRESSURE GAUGE: 0 = without pressure gauge (with threaded port for gauges) 2 = with built-in pressure gauge 0-6 and working pressure 0 ÷ 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0 ÷ 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0,5 ÷ 10 bar (standard)
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

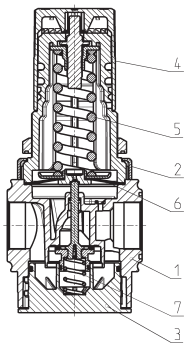
For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Pressure regulators Series MX - materials

R = pressure regulator
M = Manifold pressure regulator



R



M

PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Valve holder plug	Polyacetal
4 = Regulator knob	Polyamide
5 = Upper spring	Zinc-plated steel
6 = Diaphragm	NBR
7 = Lower spring	Stainless steel
Seals	NBR

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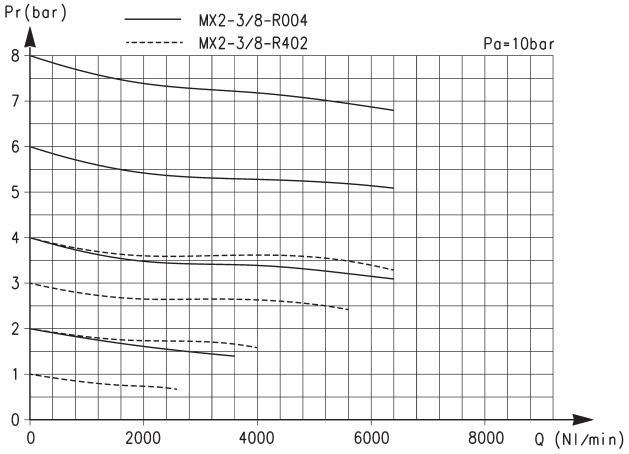
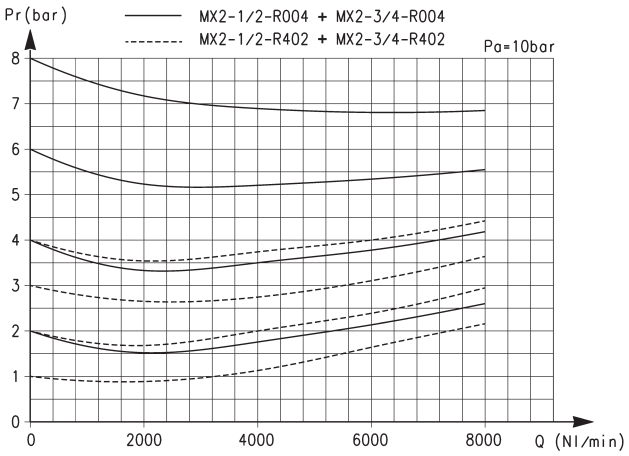
MX2 FLOW DIAGRAMS



Pr = Regulated pressure
Q = Flow

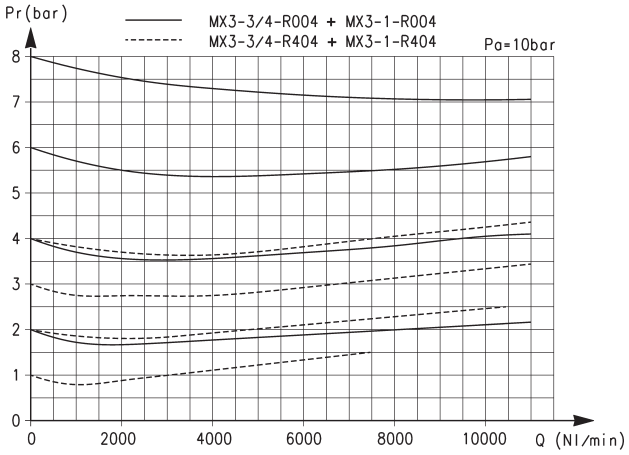
Pa = Inlet pressure



Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

MX3 FLOW DIAGRAM



Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

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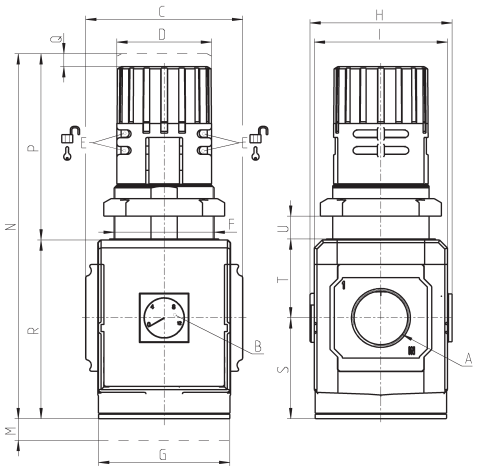
Pressure regulators Series MX - dimensions



PR01 = regulator without relieving
PR02 = regulator with relieving
PR05 = regulator without relieving and with pressure gauge
PR06 = regulator with relieving and pressure gauge

Mod.	A	B (bar)	C	D	E	F	G	H	I	M	N	P	Q	R	S	T	U	Weight (Kg)
MX2-3/8-R004	G3/8	0 ÷ 12	70	45	Ø 4	M47x1,5	70	74,5	68	45	166	78	5	88	50,5	37,5	0 ÷ 13	0.6
MX2-1/2-R004	G1/2	0 ÷ 12	70	45	Ø 4	M47x1,5	70	74,5	68	45	166	78	5	88	50,5	37,5	0 ÷ 13	0.6
MX2-3/4-R004	G3/4	0 ÷ 12	70	45	Ø 4	M47x1,5	70	74,5	68	45	166	78	5	88	50,5	37,5	0 ÷ 13	0.6
MX3-3/4-R004	G3/4	0 ÷ 12	89,5	54	Ø 4	M57x1,5	75	81	76	45	206	104	5	102	57,5	44,5	0 ÷ 20	1
MX3-1-R004	G1	0 ÷ 12	89,5	54	Ø 4	M57x1,5	75	81	76	45	206	104	5	102	57,5	44,5	0 ÷ 20	1

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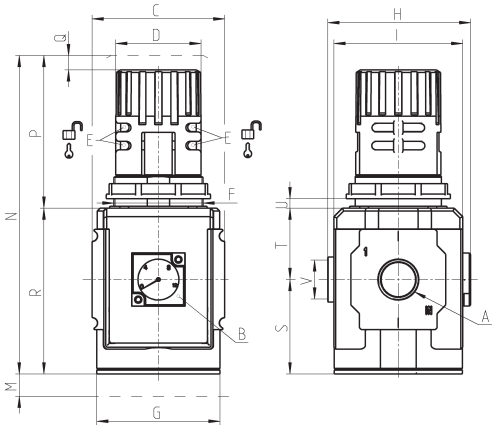
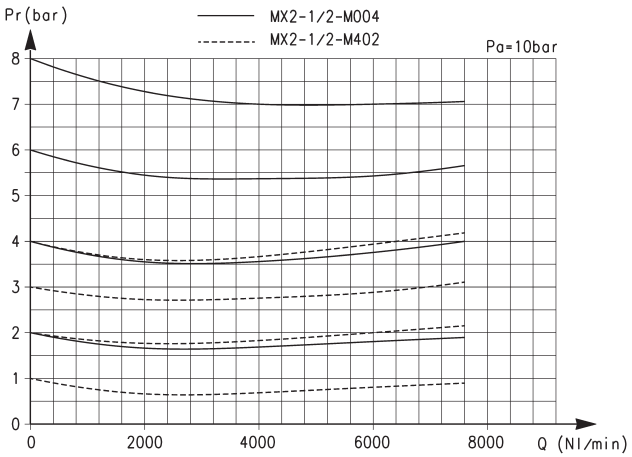
MANIFOLD pressure regulator Series MX - dimensions

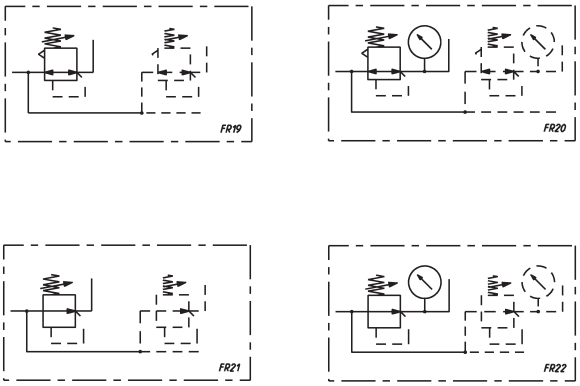
The picture on the left side shows that it is possibile to assembly a certain numer of regulators with the same inlet pressure using proper mounting kits, with or without terminals.
The regulation of the outlet pressure (OUT port) of each regulator can be set up rotating the knob clockwise or anticlockwise unitl the desired pressure is reached.
This regulation has no effect on pressures of previous or following regulators.



Mod.	A	B (bar)	C	D	E	F	G	H	I	M	N	P	Q	R	S	T	U	V (OUT)	Weight (Kg)
MX2-1/2-M004	G1/2	0 ÷ 12	70	45	Ø 4	M47x1,5	70	75,5	68	45	166	78	5	88	50,5	37,5	0 ÷ 13	G1/2	0,6

MANIFOLD REGULATOR - FLOW DIAGRAM and PNEUMATIC SYMBOLS





Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

FR19 = Manifold regulator with relieving and without manometer
FR20 = Manifold regulator with relieving and manometer
FR21 = Manifold regulator without relieving nor manometer
FR22 = Manifold regulator without relieving and with manometer

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General terms and conditions for sale are available on www.camozzi.com.

Series MX lubricators

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular
Bowl with technopolymer cover and bayonet-type mounting

- Regulation screw
- Ability to refill the oil even with system under pressure
- High flow
- Check of the oil level through plastic cover openings
- Bowl locking system reducing the risk of accidents

MX is the new series of air treatment components realized by Camozzi, characterized by a modern, linear and compact design, offering high performances. The perfect integration between metal alloys and technopolymers has allowed the realization of a reliable product, light and strong at the same time. Thanks to a new concept of modularity, moreover, the mounting of components has become easier.
These proportional lubricators enable a precision metering.

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact
Materials	see TABLE OF MATERIALS (pag. 3/1.25.02)
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Oil capacity	MX2: 118 cc MX3: 170 cc
Oil refilling	even during use
Mounting	vertical in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Oil for lubrication	da 3°E ÷ 10°E (ask our engineers)
Operating pressure	0 ÷ 16 bar
Min. air consumption for lubrication at 1 bar	MX2: 17 Nl/min MX3: 50 Nl/min
Min. air consumption for lubrication at 6 bar	MX2: 38 Nl/min MX3: 90 Nl/min
Nominal flow	see FLOW DIAGRAMS (pag 3/1.25.03)

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

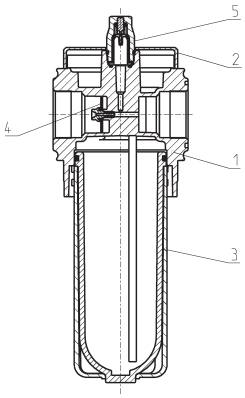
CODING EXAMPLE

MX	2	-	3/8	-	L	00	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 1/2 = G1/2 3/4 = G3/4 1 = G1
L	LUBRICATOR
00	DESIGN TYPE: 00 = atomized oil
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Lubricators Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide
4 = Diaphragm	NBR
5 = Viewer	Polyamide
Seals	NBR

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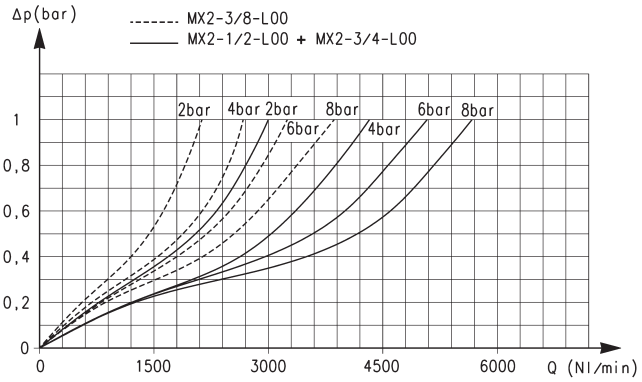
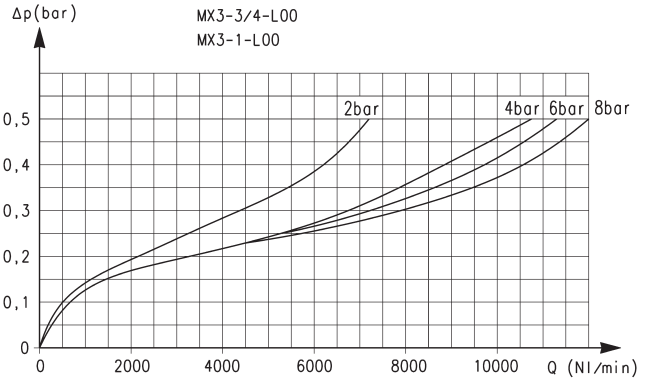
FLOW DIAGRAMS



Reference diagram for MX2

Δp = Pressure drop
Q = Flow

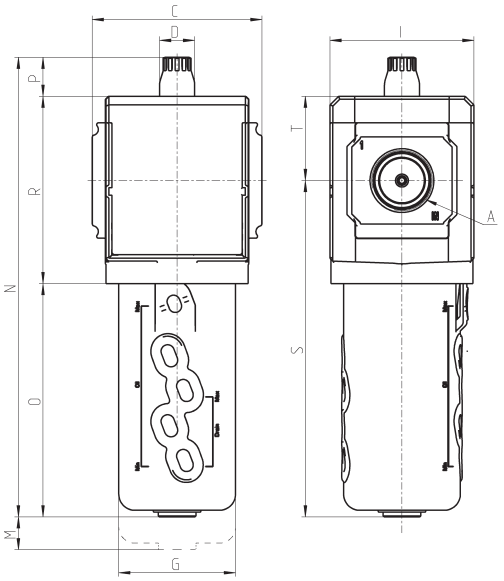


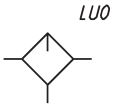
Reference diagram for MX3

Δp = Pressure drop
Q = Flow

3 TREATMENT

Lubricators Series MX - dimensions





Mod.	A	C	D	G	I	M	N	O	P	R	S	T	Weight (Kg)
MX2-3/8-L00	G3/8	70	18,5	55,5	68	84,5	210	104,5	20,5	85	152	37,5	0.5
MX2-1/2-L00	G1/2	70	18,5	55,5	68	84,5	210	104,5	20,5	85	152	37,5	0.5
MX2-3/4-L00	G3/4	70	18,5	55,5	68	84,5	210	104,5	20,5	85	152	37,5	0.5
MX3-3/4-L00	G3/4	89,5	18,5	61,5	76	100	243	123	21	99	178	44,5	0.8
MX3-1-L00	G1	89,5	18,5	61,5	76	100	243	123	21	99	178	44,5	0.8

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Series MX filter-regulators

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular
Bowl with technopolymer cover and bayonet-type mounting

- Filtering between 25 µm or 5 µm
- Available versions: with built-in gauge or with ports for gauge
- Lockable knob with closure
- Bowl locking system reducing the risk of accidents

Series MX filter-regulators integrate filter and pressure reducer in one unit. They are, therefore, compact and suitable for pre-filtering functions.
Available with or without draining (relieving), they are equipped with a valve diaphragm for a direct pressure regulation and with an integrated condensate drainer, manual or automatic. Moreover, they are equipped with a built-in pressure gauge.

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact with filtering element in HDPE
Materials	see TABLE OF MATERIALS (pag. 3/1.30.02)
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Condensate capacity	MX2: 55 cc MX3: 85 cc
Mounting	vertical in-line wall-mounting (by means of clamps) panel mounting
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Porosity of filtering element	25 µm (standard) 5 µm
Draining of condensate	MX2: manual-semi automatic (standard), automatic, depressurization protected, without drain with port G1/8 MX3: manual-semi automatic (standard), without drain with port G1/8
Operating pressure	0,3 ÷ 16 bar ((with automatic drain 1,5 ÷ 12)
Nominal flow	see FLOW DIAGRAMS (pag. 3/1.30.03)
Fluid	compressed air
Pressure gauge	version with built-in pressure gauge (standard) version with G1/4 ports for pressure gauge (MX3 only) version with G1/8 ports for pressure gauge (MX2 only)

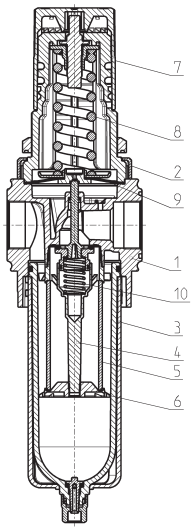
CODING EXAMPLE

MX	2	-	3/8	-	FR	0	0	0	4	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
FR	FILTER-REGULATOR
0	FILTERING ELEMENT WITH DESIGN TYPE: 0 = 25 µm with relieving (standard) 1 = 5 µm with relieving 2 = 25 µm without relieving (with semiautomatic-manual drain only) 3 = 5 µm without relieving (with semiautomatic-manual drain only)
0	DRAINING OF CONDENSATE: 0 = semiautomatic-manual drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = without drain, with port G1/8
0	OPERATING PRESSURE: 0 = 0,5 ÷ 10 bar (standard) 4 = 0 ÷ 4 bar 7 = 0,5 ÷ 7 bar (MX2 only)
4	PRESSURE GAUGE: 0 = without pressure gauge(with threaded port) 2 = with built-in pressure gauge 0-6 and working pressure 0 ÷ 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0 ÷ 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0,5 ÷ 10 bar (standard)
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Filter-regulators Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide
4 = Valve guide	Polyacetal
5 = Filtering element	Polyethylene
6 = Separation deflector	Polyacetal
7 = Knob	Polyamide
8 = Upper spring	Zinc-plated steel
9 = Diaphragm	NBR
10 = Lower spring	Stainless steel
Seals	NBR

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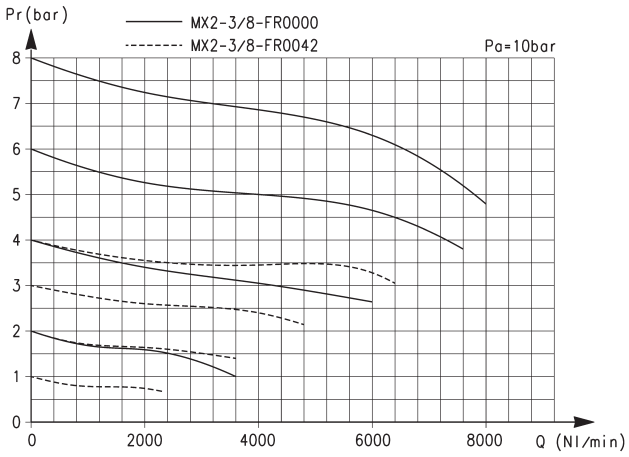
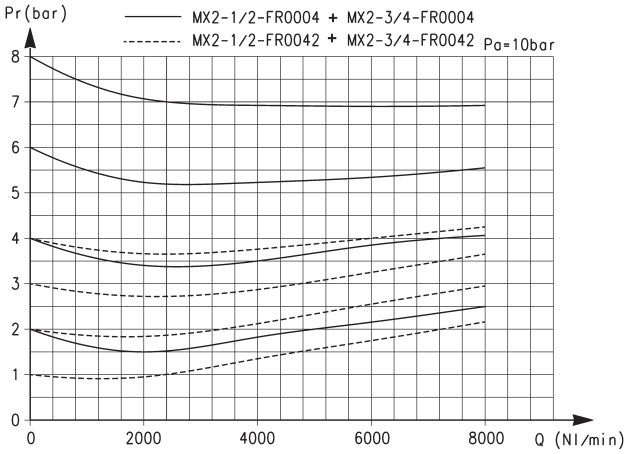
MX2 FLOW DIAGRAMS



Pr = Regulated pressure
Q = Flow

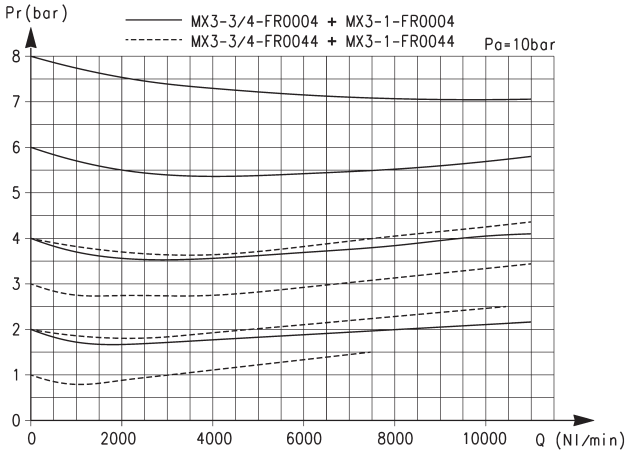
Pa = Inlet pressure



Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

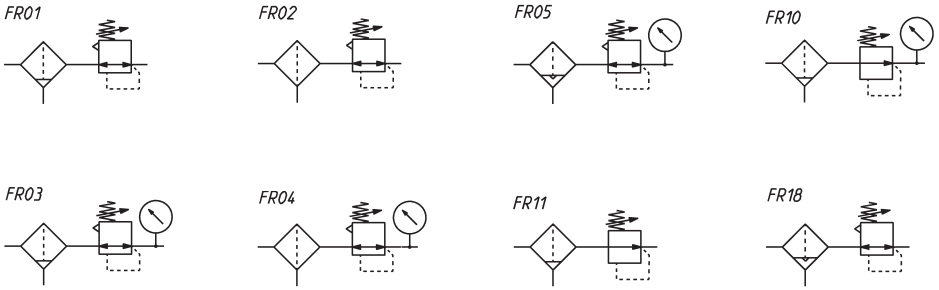
MX3 FLOW DIAGRAM



Pr = Regulated pressure
Q = Flow

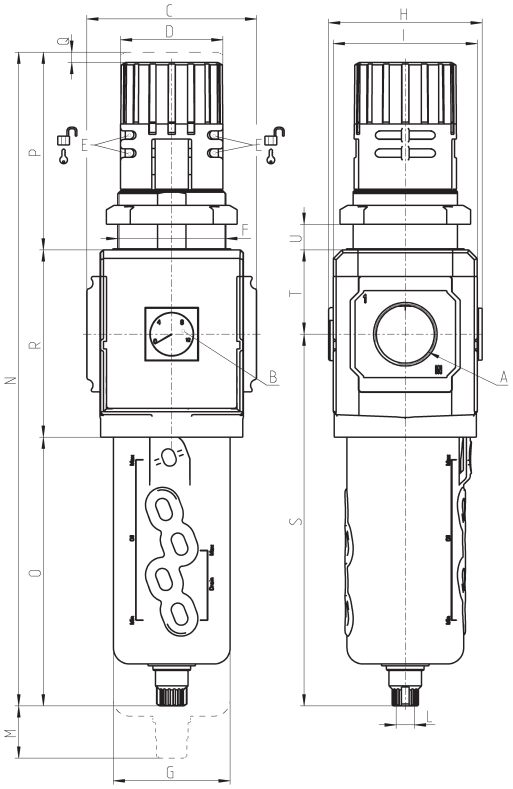
Pa = Inlet pressure

PNEUMATIC SYMBOLS



FR01 = filter-regulator with relieving and manual drain
FR02 = filter-regulator with relieving and without drain
FR03 = filter-regulator with relieving, manual drain and pressure gauge
FR04 = filter-regulator with relieving, without drain and with pressure gauge
FR05 = filter-regulator with relieving, automatic drain and pressure gauge
FR10 = filter-regulator with manual drain, without relieving and with pressure gauge
FR11 = filter-regulator with manual drain and wiithout relieving
FR18 = filter-regulator with relieving and automatic drain

Filter-regulators Series MX - dimensions



Mod.	A	B (bar)	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	U	Weight (Kg)
MX2-3/8-FR0004	G3/8	0 ÷ 12	70	45	Ø 4.7	M47x1,5	55,5	74,5	68	G1/8	66	290	127	78	5	85	174,5	37,5	0 ÷ 16	0.8
MX2-1/2-FR0004	G1/2	0 ÷ 12	70	45	Ø 4.7	M47x1,5	55,5	74,5	68	G1/8	66	290	127	78	5	85	174,5	37,5	0 ÷ 16	0.8
MX2-3/4-FR0004	G3/4	0 ÷ 12	70	45	Ø 4.7	M47x1,5	55,5	74,5	68	G1/8	66	290	127	78	5	85	174,5	37,5	0 ÷ 16	0.8
MX3-3/4-FR0004	G3/4	0 ÷ 12	89,5	54	Ø 4	M57x1,5	61,5	81	76	G1/8	75	345	142	104	5	99	196,5	44,5	0 ÷ 20	1.3
MX3-1-FR0004	G1	0 ÷ 12	89,5	54	Ø 4	M57x1,5	61,5	81	76	G1/8	75	345	142	104	5	99	196,5	44,5	0 ÷ 20	1.3

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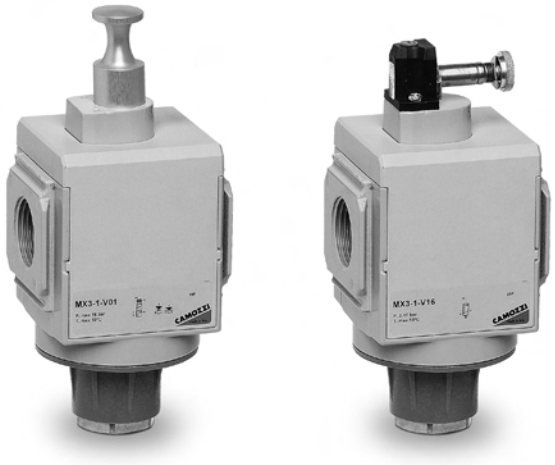
Series MX
lockable isolation 3/2-way valves

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular
Manual, electro-pneumatic, servo-pilot and pneumatic control



Manual isolation valves are ideal to allow an easy access to the FRL group. The system is depressurized with the de-activation of the valve.
Electropneumatic isolation valves: ideal where manual access is difficult, they allow a maximum positioning flexibility and are designed to pressurize or depressurize pneumatic systems. The built-in manual override guarantees security in case of an emergency.

- Standard tamperproof lock-out (manual valve)
- One/more locks for the lock-out feature (manual valve)
- Actuation at 24 V, 110 V or 230 V
- Exhaust in atmosphere
- Silencers available on request

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact, spool-type
Materials	see TABLE OF MATERIALS (pag. 3/1.35.01)
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Mounting	in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Operating pressure	Manual valve: -0,8 bar ÷ 10 bar Electro-pneumatic valve: 2 bar ÷ 10 bar Servopilot or pneumatic valve: -0,8 bar ÷ 10 bar (with pilot 2 ÷ 10 bar)
Nominal flow	see FLOW DIAGRAMS (pag. 3/1.35.03 e 3/1.35.04)
Nominal exhaust flow at 6 bar with Δp = 1 bar	MX2: 6000 Nl/min MX3: 9200 Nl/min
Fluid	compressed air

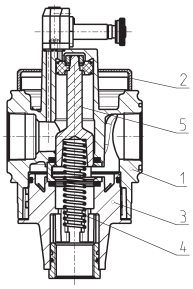
CODING EXAMPLE

MX	2	-	3/8	-	V	01	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
V	3/2-WAY VALVE
01	DESIGN TYPE: 01 = lockable manual control 16 = electro-pneumatic control 17 = servo-pilot control 36 = pneumatic control
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Lockable isolation 3/2-way valves Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Valve holder plug	Polyacetal
4 = Lower spring	Zinc-plated steel
5 = Spool	Stainless steel (MX...V16 - V17 - V36) Aluminium (MX...V01)
Seals	NBR

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NOMINAL FLOW DIAGRAM for valves Mod. MX...V01

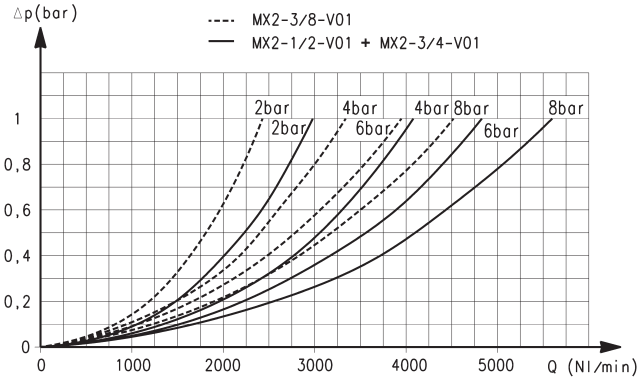


Diagram for lockable manual control valves MX2

Δp = Pressure drop
Q = Flow

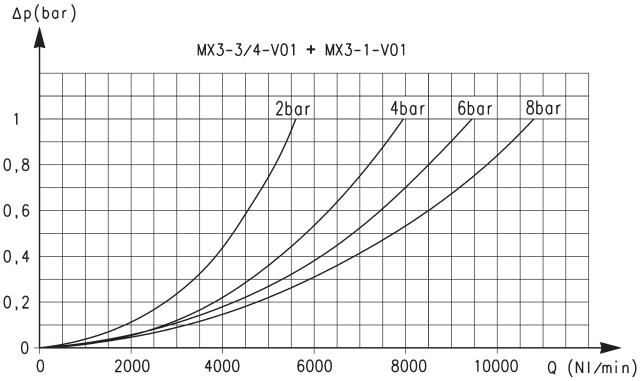


Diagram for lockable manual control valves MX3

Δp = Pressure drop
Q = Flow

Lockable manual valves Series MX - dimensions

Fig. 1 = closed valve
Fig. 2 = open valve

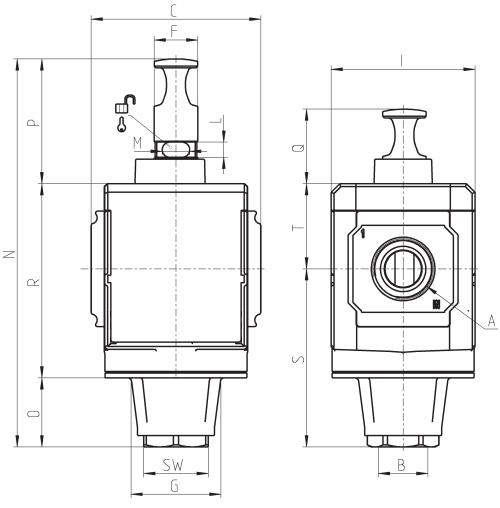
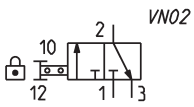


FIG.1 FIG.2



Mod.	A	B	C	F	G	I	L	M	N	O	P	Q	R	S	SW	T	Weight (Kg)
MX2-3/8-V01	G3/8	G 1/2	70	18	34,5	68	9	8	152	13	51	31	88	63,5	27	37,5	0.5
MX2-1/2-V01	G 1/2	G 1/2	70	18	34,5	68	9	8	152	13	51	31	88	63,5	27	37,5	0.5
MX2-3/4-V01	G3/4	G 1/2	70	18	34,5	68	9	8	152	13	51	31	88	63,5	27	37,5	0.5
MX3-3/4-V01	G3/4	G3/4	89,5	23	48	76	8	14,5	205,5	37	66,5	40	102	94,5	34	44,5	0.9
MX3-1-V01	G1	G3/4	89,5	23	48	76	8	14,5	205,5	37	66,5	40	102	94,5	34	44,5	0.9

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NOMINAL FLOW DIAGRAM for valves Mod. MX...V16 and MX...V36

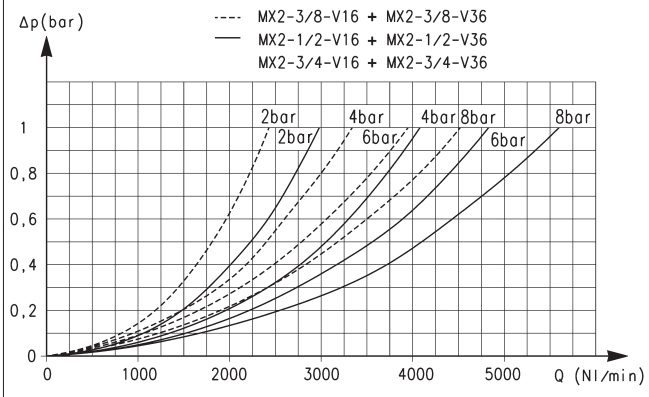


Diagram for electro-pneumatic or pneumatic control valves MX2

Δp = Pressure drop
Q = Flow

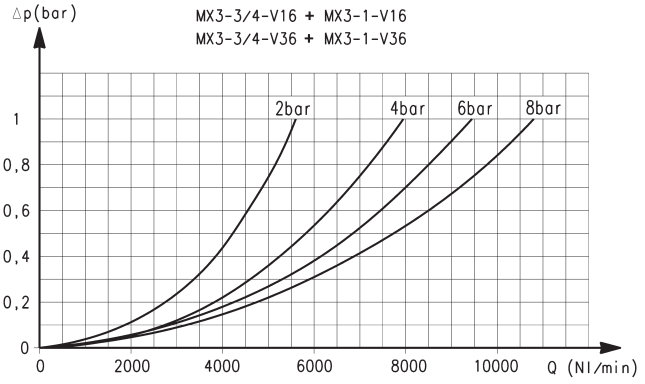


Diagram for electro-pneumatic or pneumatic control valves MX3

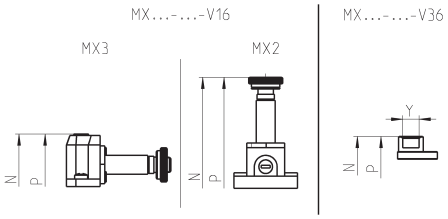
Δp = Pressure drop
Q = Flow

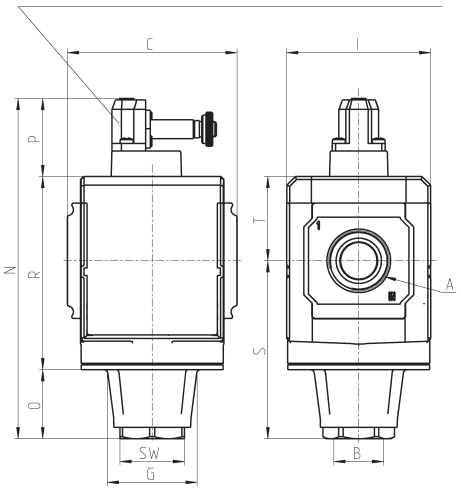
3/2-way isolation valves Series MX - dimensions

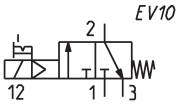
Electro-pneumatic or pneumatic valves

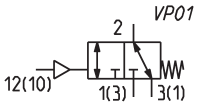
EV10 = solenoid valve, 3/2 NC, monostable, with bistable manual override

VP01 = pneumatically operated valve, 3/2, monostable, mechanical spring









Mod.	A	B	C	G	I	N	O	P	R	S	SW	T	Y	Weight (Kg)	Symbol
MX2-3/8-V16	G3/8	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	-	0.5	EV10
MX2-1/2-V16	G1/2	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	-	0.5	EV10
MX2-3/4-V16	G3/4	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	-	0.5	EV10
MX2-3/8-V36	G3/8	G1/2	70	34,5	68	122	13	21	88	63,5	34	37,5	G1/8	0.5	VP01
MX2-1/2-V36	G1/2	G1/2	70	34,5	68	122	13	21	88	63,5	34	37,5	G1/8	0.5	VP01
MX2-3/4-V36	G3/4	G1/2	70	34,5	68	122	13	21	88	63,5	34	37,5	G1/8	0.5	VP01
MX3-3/4-V16	G3/4	G3/4	89,5	48	76	180,5	37	41,5	102	94,5	34	44,5	-	0.9	EV10
MX3-1-V16	G1	G3/4	89,5	48	76	180,5	37	41,5	102	94,5	34	44,5	-	0.9	EV10
MX3-3/4-V36	G3/4	G3/4	89,5	48	76	164	37	25,5	102	94,5	34	44,5	G1/8	0.9	VP01
MX3-1-V36	G1	G3/4	89,5	48	76	164	37	25,5	102	94,5	34	44,5	G1/8	0.9	VP01

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FLOW DIAGRAM for valves Mod. MX...V17

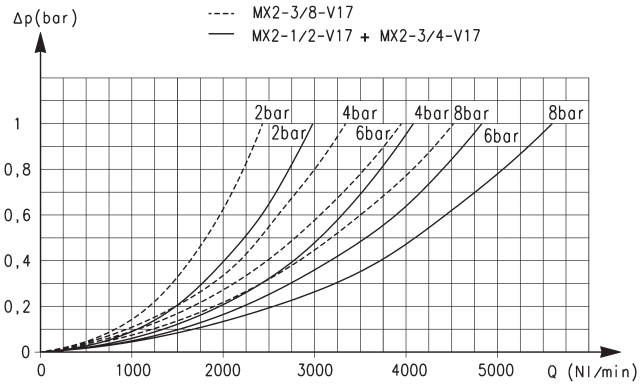


Diagram for servo-pilot control valves MX2

Δp = Pressure drop
Q = Flow

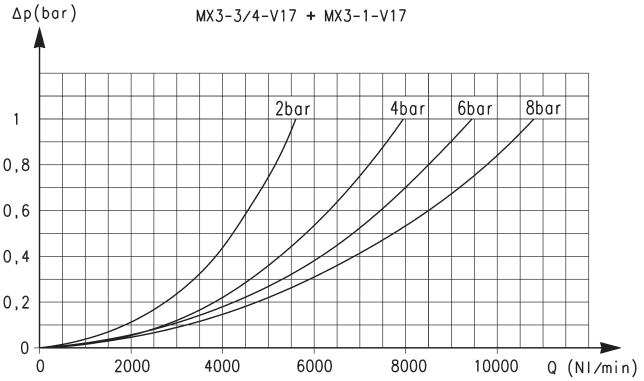


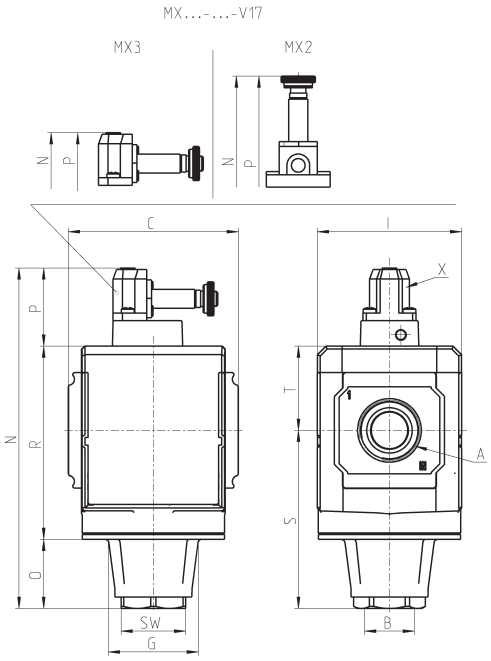
Diagram for servo-pilot control valves MX3

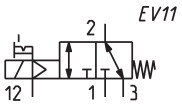
Δp = Pressure drop
Q = Flow

3/2-way isolation valves Series MX - dimensions

Servo-pilot valves

EV11 = solenoid valve, 3/2, monostable,
solenoid pilot with separate air supply and
bistable manual override





Mod.	A	B	C	G	I	N	O	P	R	S	SW	T	X	Weight (Kg)
MX2-3/8-V17	G3/8	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	M5	0.5
MX2-1/2-V17	G1/2	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	M5	0.5
MX2-3/4-V17	G3/4	G1/2	70	34,5	68	171	13	70	88	63,5	34	37,5	M5	0.5
MX3-3/4-V17	G3/4	G3/4	89,5	48	76	180,5	37	41,5	102	94,5	34	44,5	M5	0.9
MX3-1-V17	G1	G3/4	89,5	48	76	180,5	37	41,5	102	94,5	34	44,5	M5	0.9

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Series MX soft start valves

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Modular

- Security function to maintain the command sequence
- Opening of the main air path at about 50% of the value of the inlet pressure
- Pressure switches available on request

These soft start valves allow a gradual increase of the pressure in pneumatic systems. The pressure increases slowly according to the set regulation until it reaches half of the set value, then it increases rapidly. The valve poppet shifts slowly and securely to the open position to prevent sudden and unsafe movements of the pneumatic components in the system.

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact, poppet-type
Materials	see TABLE OF MATERIALS (pag. 3/1.40.02)
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Mounting	in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) 50°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Operating pressure	2 ÷ 16 bar
Nominal flow (at 6 bar with ΔP 1 bar)	MX2: 5800 l/min (G1/2, G3/4) MX2: 4500 l/min (G3/8) MX3: 8500 l/min
Fluid	compressed air

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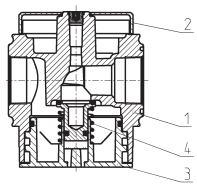
CODING EXAMPLE

MX	2	-	3/8	-	AV	-	LH

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORT: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
AV	SOFT START VALVE
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Soft start valves Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Valve holder plug	Polyacetal
4 = Lower spring	Stainless steel
Seals	NBR

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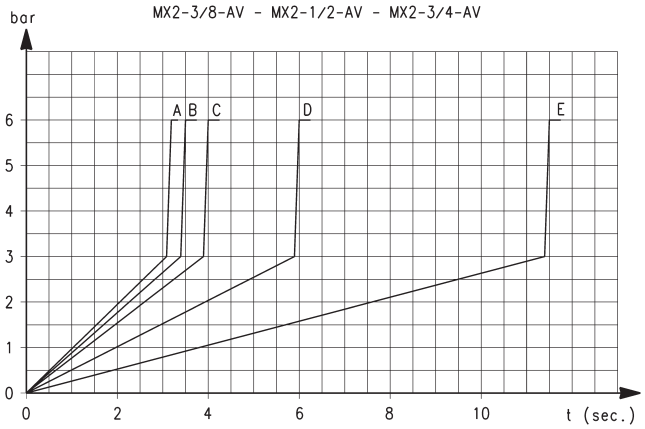
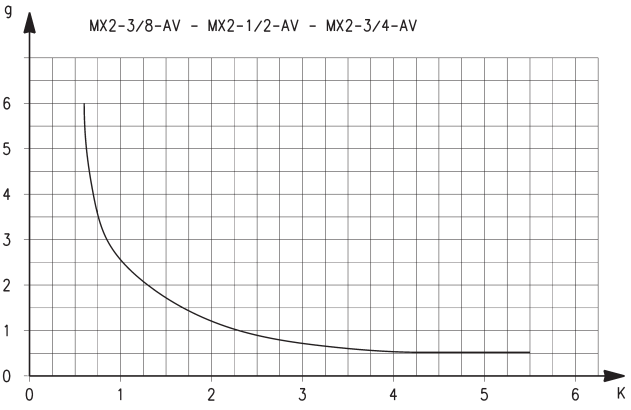
MX2 DIAGRAMS FOR PRESSURISATION TIMES



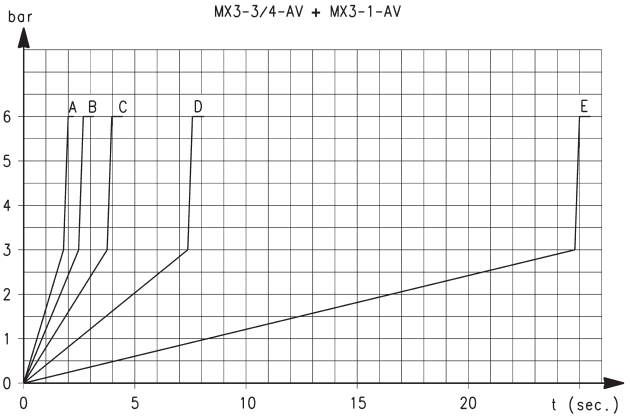


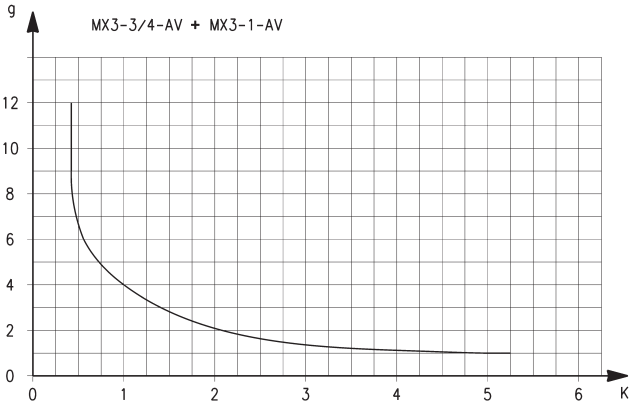
Pressurisation times as to the number of turns of the regulation screw, with downstream volume of 5 litres. A = 5 turns - B = 4 turns - C = 3 turns - D = 2 turns - E = 1 turn. K = number of turns of the regulation screw required to obtain the required pressurisation time with an inlet pressure of 6 bar. Variations of the inlet pressure can cause deviations of the pressure time by ± 20%. K = t/V where: V = volume of the downstream system in litres; t = desired pressuring time in seconds.

EXAMPLE:
V = 5 litres
t = 16 seconds
K = 16/5 = 3,2

Using in the graph this value K, the number of turns of the regulation screw will be approx. 0,8.

MX3 DIAGRAMS FOR PRESSURISATION TIMES





Pressurisation times as to the number of turns of the regulation screw, with downstream volume of 5 litres. A = 5 turns - B = 4 turns - C = 3 turns - D = 2 turns - E = 1 turn. K = number of turns of the regulation screw required to obtain the required pressurisation time with an inlet pressure of 6 bar. Variations of the inlet pressure can cause deviations of the pressure time by ± 20%. K = t/V where: V = volume of the downstream system in litres; t = desired pressuring time in seconds.

EXAMPLE:
V = 5 litres
t = 16 seconds
K = 16/5 = 3,2

Using in the graph this value K, the number of turns of the regulation screw will be approx. 1,8.

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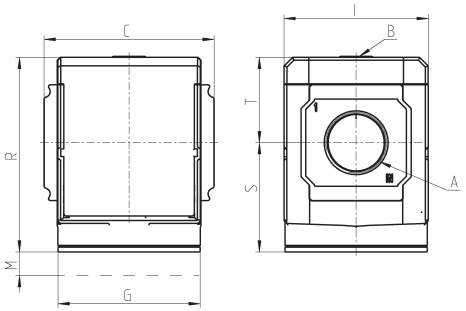
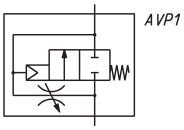
Soft start valves Series MX - dimensions





Mod.	A	B	C	G	I	M	R	S	T	Weight (Kg)
MX2-3/8-AV	G3/8	G1/8	70	65	68	46,5	88	50,5	37,5	0.4
MX2-1/2-AV	G1/2	G1/8	70	65	68	46,5	88	50,5	37,5	0.4
MX2-3/4-AV	G3/4	G1/8	70	65	68	46,5	88	50,5	37,5	0.4
MX3-3/4-AV	G3/4	G1/8	89,5	75	76	48	102	57,5	44,5	0.7
MX3-1-AV	G1	G1/8	89,5	75	76	48	102	57,5	44,5	0.7

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Series MX take-off blocks

MX2 port: G1/2 - MX3 port: G1
Modular

The Take-off blocks, when equipped with a no return valve, can be used to bleed non lubricated air.

- Compact design
- Available with or without VNR (no return valve)
- Pressure switches available on request

The Series MX has been realized to offer a multi-sector solution that guarantees saving in terms of installation time, space and costs. A special configurator, available on Camozzi website at http://catalogue.camozzi.com (sec. Configurators), allows the customer to choose the most suitable solution for his application, selecting single components or by configuring assembled FRLs.

GENERAL DATA

Construction	modular, compact, diaphragm-type
Materials	see TABLE OF MATERIALS (pag. 3/1.45.02)
Ports	MX2: G1/2 MX3: G1
Take-off ports	MX2: G1/2 MX3: G1
Mounting	in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Operating pressure	0 ÷ 16 bar
Nominal flow at 6 bar with Δp = 1 bar	MX2-1/2-B00 = 6800 Nl/min MX2-1/2-B01 = 5700 Nl/min MX3-1-B00 = 14500 Nl/min MX3-1-B01 = 10500 Nl/min
Fluid	compressed air

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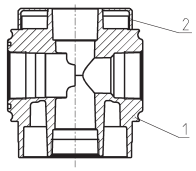
CODING EXAMPLE

MX	2	-	1/2	-	B	00	-	LH

MX	SERIES
2	SIZE: 2 = G1/2 3 = G1
1/2	PORT: 2 = G1/2 3 = G1
B	TAKE-OFF BLOCK
00	DESIGN TYPE: 00 = without no return valve (standard) 01 = with no return valve 02 = without no return valve, with double O-ring seat
LH	FLOW DIRECTION: = from left to right (standard) LH = from right to left

For the assembly of a single component with fixing flanges or wall-mounting, see the section “FRL Series MX Assembled” (pag. 3/1.50.01)

Take-off blocks Series MX - materials



PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
Seals	NBR

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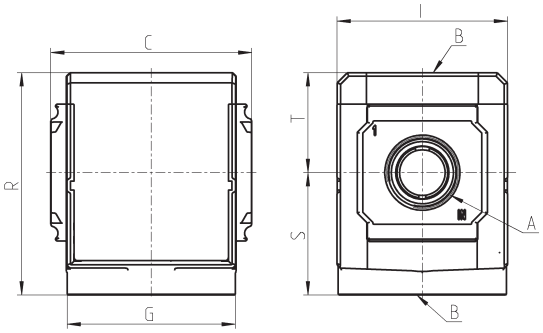
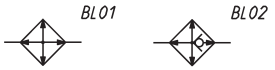
Series MX take-off blocks - dimensions

TABLE NOTE:
* to complete the code see the CODING EXAMPLE





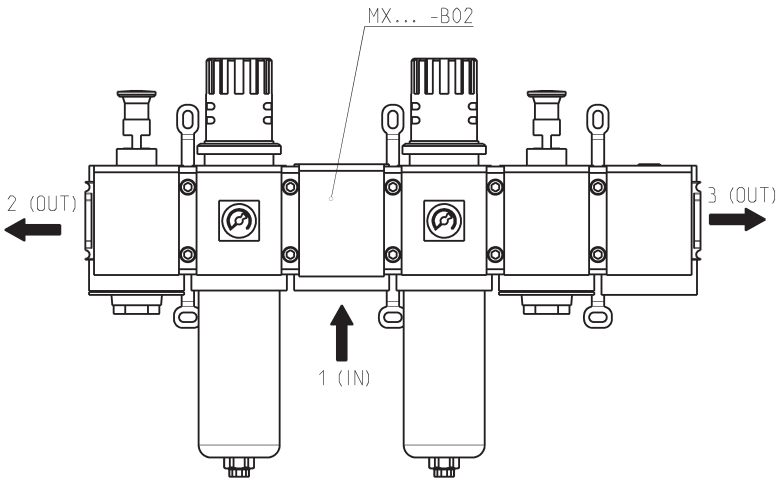
BL01 = take-off block

BL02 = take-off block with VNR

Mod.	A	B	C	G	I	R	S	T	Weight (Kg)
MX2-1/2-B*	G1/2	G1/2	70	65	68	86	47,5	38,5	0.4
MX3-1-B*	G1	G1	89,5	75	76	99	54,5	44,5	0.6

Use of the take-off block MX...- B02

The take-off block with double O-ring seat is particularly suitable when Series MX modules have to be supplied through the same pressure source.
The modules which are connected to the left side are of LH kind.



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ACCESSORIES FOR SERIES MX

Rapid clamps

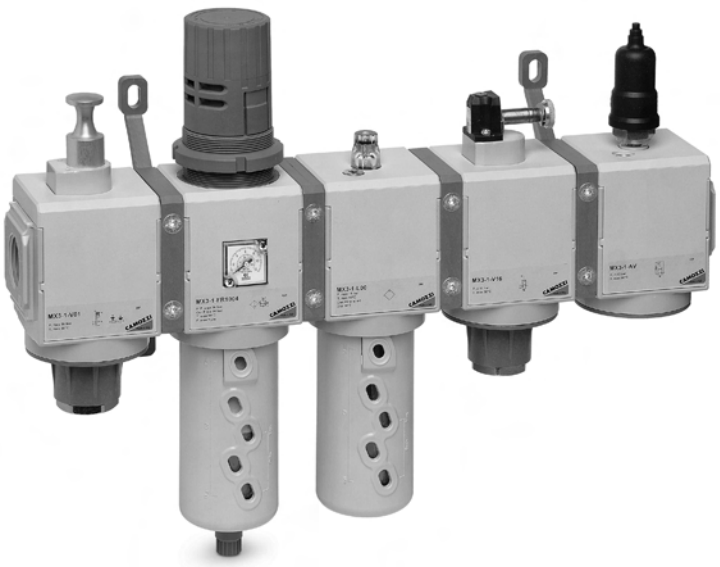
Rapid clamps
with brackets

Terminal flanges
(IN/OUT)

Fixing brackets
for regulators

Block for pressure gauge
fixing

Assembly O-ring



Systems of rapid connections designed to make mounting easier.

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Rapid clamp kit Mod. MX2-... and MX3...

The kit MX2-X is supplied with:
1 rapid clamp, 1 O-ring OR 3125 *,
2 exagonal nuts M5, 2 screws M5x69.

The kit MX2-Z is supplied with:
1 rapid clamp, 1 O-ring OR 3125 *,
1 exagonal nut M5, 1 screw M5x69,
1 screw M5x85 for wall fixing.

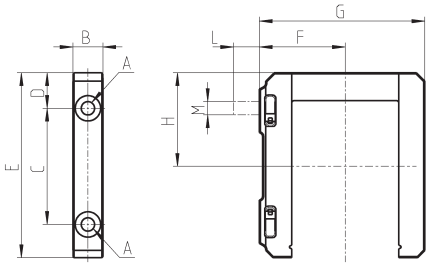
* it can be ordered separately (cod. 160-39-11/19)

The kit MX3-X is supplied with:
1 rapid clamp, 1 O-ring OR 38X2,8 **,
2 square nuts M6, 2 screws M6x75.

The kit MX3-Z is supplied with:
1 rapid clamp, 1 O-ring OR 38X2,8 **,
1 square nut M6, 1 screw M6x75,
1 screw M6x90 for wall fixing.

** it can be ordered separately (OR 38X2,8 NBR)

Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.



See positioning scheme on p. 3/1.50.04

DIMENSIONS

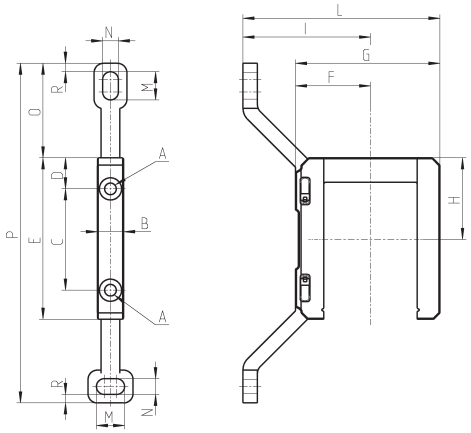
Mod.	A	B	C	D	E	F	G	H	L	M	Notes
MX2-X	5.2	12	46	14	73.5	37.5	70.5	37	-	-	
MX2-Z	5.2	12	46	14	73.5	37.5	70.5	37	14	M5	kit with wall fixing screw
MX3-X	6.2	14	54	16.5	86	40	77	43.5	-	-	
MX3-Z	6.2	14	54	16.5	86	40	77	43.5	13	M6	kit with wall fixing screw

Rapid clamp kit with wall fixing brackets for series MX - size 2

The kit MX2-Y is supplied with:
1 wall rapid clamp, 1 O-ring OR 3125 **, 2 exagonal nuts, 2 screws M5x69.

** it can be separately ordered (cod. 160-39-11/19)

Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.



Mod.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	R
MX2-Y	5,2	12	46	14	73,5	32,5	70,5	37	70,5	103	12	6,5	42	152	4

See positioning scheme on p. 3/1.50.04

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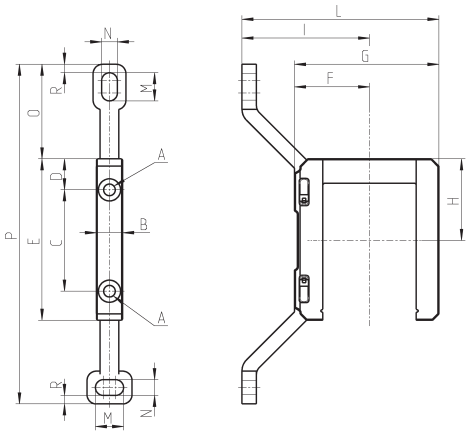
Rapid clamp kit with wall fixing brackets for series MX - size 3

The kit MX3-Y is supplied with:
1 wall rapid clamp, 1 O-ring 38X2,8 **,
2 square nuts M6, 2 screws M6x75

** it can be also separately ordered (OR 38X2,8 NBR)

Materials: technopolymer clamp, NBR O-ring, zinc-plated steel nuts and screws.



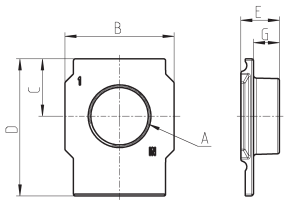
Mod.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	R
MX3-Y	6,2	14	54	16,5	86	40	77	43,5	68	105	15	8,4	50,5	181	4,5

See positioning scheme on p. 3/1.50.04

Terminal flanges (IN/OUT)

The kit is supplied with:
- 1 flange INLET side
- 1 flange OUTLET side

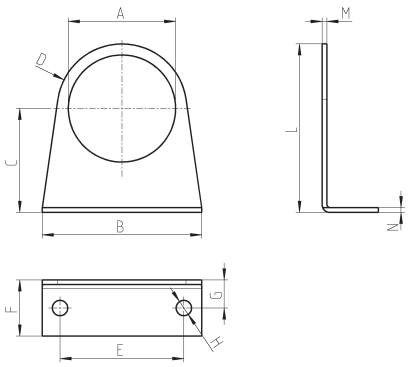
Materials: painted aluminium flanges.



Mod.	A	B	C	D	E	G
MX2-3/8-FL	G3/8	50	26,5	63,5	17	11
MX2-1/2-FL	G1/2	50	26,5	63,5	17	11
MX2-3/4-FL	G3/4	50	26,5	63,5	17	11
MX3-3/4-FL	G3/4	58	30,5	73	20,5	13,5
MX3-1-FL	G1	58	30,5	73	20,5	13,5

Fixing bracket for regulators

The kit is supplied with 1 zinc-plated steel bracket



Mod.	A	B	C	D	E	F	G	H	L	M	N
MX2-S	Ø 47,2	73	60,5	R29,5	54	25	15	Ø 6,2	90	2,5	2,5
MX3-S	Ø 57,2	85	55,5	R34,5	66	30	15	Ø 8,2	90	2,5	2,5

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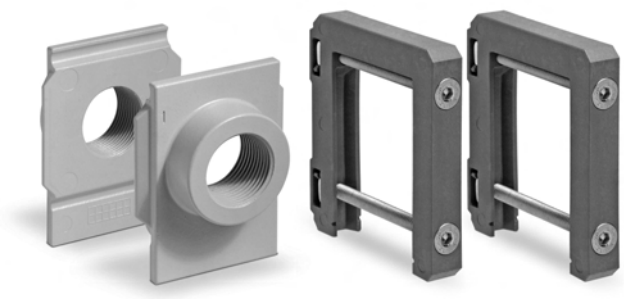
Rapid clamps kit + flanges

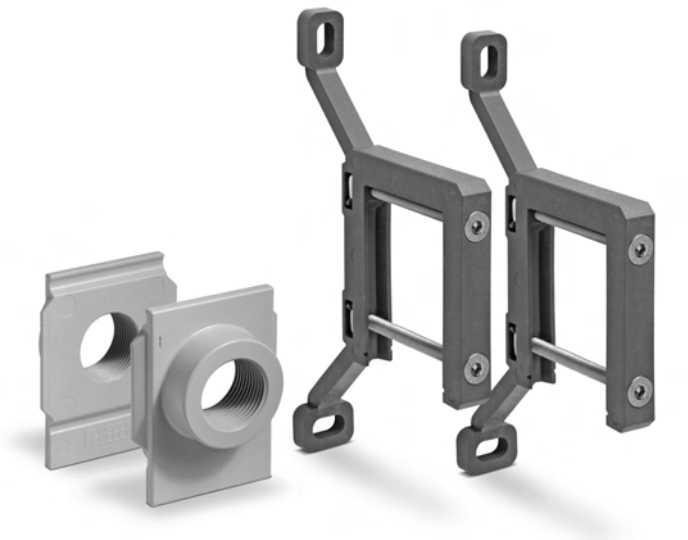
See positioning scheme on page 3/1.50.04



Mod.	The kit is supplied with:
MX2-3/8-HH	1x MX2-3/8-FL + 2x MX2-X
MX2-1/2-HH	1x MX2-1/2-FL + 2x MX2-X
MX2-3/4-HH	1x MX2-3/4-FL + 2x MX2-X
MX2-3/8-JJ	1x MX2-3/8-FL + 2x MX2-Z
MX2-1/2-JJ	1x MX2-1/2-FL + 2x MX2-Z
MX2-3/4-JJ	1x MX2-3/4-FL + 2x MX2-Z
MX3-3/4-HH	1x MX3-3/4-FL + 2x MX3-X
MX3-1-HH	1x MX3-1-FL + 2x MX3-X
MX3-3/4-JJ	1x MX3-3/4-FL + 2x MX3-Z
MX3-1-JJ	1x MX3-1-FL + 2x MX3-Z

Rapid clamps kit with wall fixing brackets + flanges

See positioning scheme on page 3/1.50.04.



Mod.	The kit is supplied with:
MX2-3/8-KK	1x MX2-3/8-FL + 2x MX2-Y
MX2-1/2-KK	1x MX2-1/2-FL + 2x MX2-Y
MX2-3/4-KK	1x MX2-3/4-FL + 2x MX2-Y
MX3-3/4-KK	1x MX3-3/4-FL + 2x MX3-Y
MX3-1-KK	1x MX3-1-FL + 2x MX3-Y

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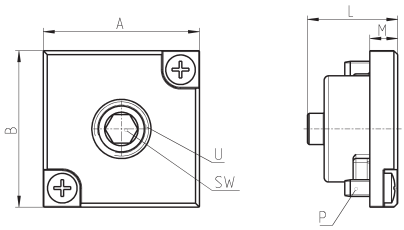
Block for pressure gauge fixing

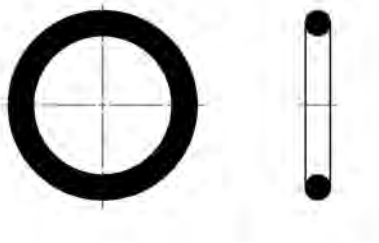
New

The kit is supplied with:
1 block
1 grain
2 screws
1 seal



DIMENSIONS							
Mod.	A	B	L	M	P	U	SW
MX2-R26-P	28	28	16.5	5	M3X7	1/8	5
MX3-R26-P	28	28	16.5	5	M3X7	1/4	6

O-ring for assembling



Mod.	O-ring	For assembly
160-39-11/19	OR 3125	MX2
OR 38X2,8 NBR	OR 38X2,8	MX3

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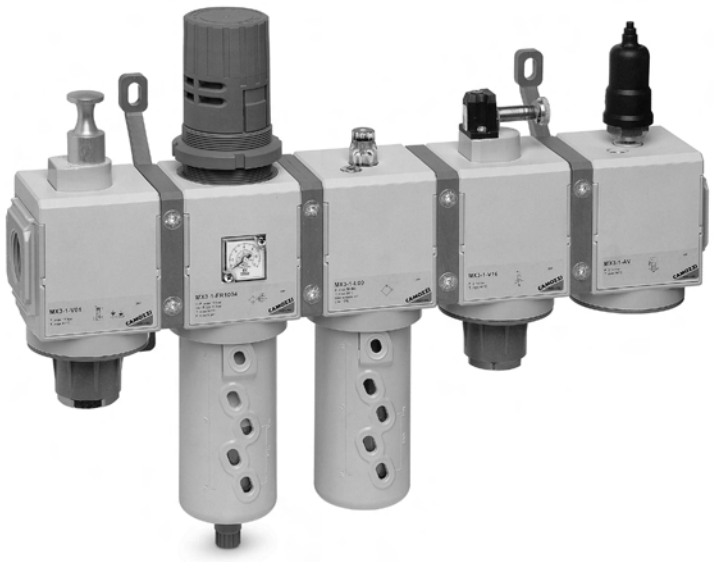
Series MX assembled FRL

MX2 ports: G3/8, G1/2, G3/4 - MX3 ports: G3/4, G1
Assembly through rapid clamps



- Compact design
- Dimensions optimization
- Great reliability
- Easy and quick maintenance
- Reduced weight

Series MX FRL can be easily assembled through rapid clamps which allow the connection among single components creating an unlimited number of compositions.
The FRL groups Series MX are also available in the already mounted version (with a single code).

The use of three different types of rapid clamps (standard, with wall fixing screws or with brackets) allows an easy mounting of the assembled groups and to carry out maintenance operations on the single components with no need to disassemble the group.

GENERAL DATA

Construction	modular, compact
Materials	see catalogue pages referring to the single component
Ports	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1
Mounting	vertical in-line wall-mounting (by means of clamps) panel mounting
Operating temperature	-5°C ÷ 50°C up to 16 bar (according to the single component characteristics) -5°C ÷ 60°C up to 10 bar (according to the single component characteristics)

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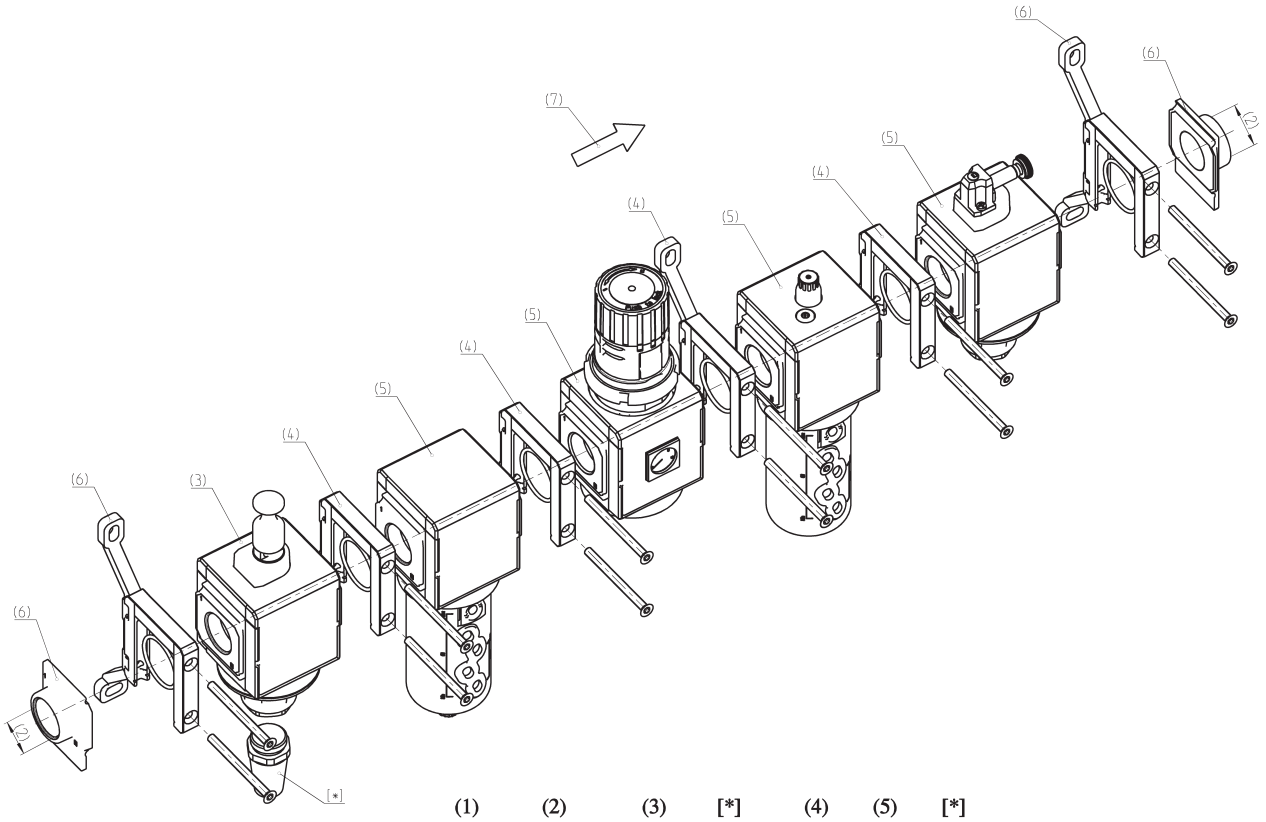
CONFIGURATION OF ASSEMBLED GROUPS SERIES MX

TO CONFIGURE THE ASSEMBLED GROUPS SERIES MX, USE THE HERE BELOW EXAMPLE AND THE RELATED LEGEND ON PAGE 3/1.50.03.

Configuration of the assembled group in the drawing below:

MX2-3/8-V01+A32XF00XR004YL00XV16-KK



CONFIGURATOR OF ASSEMBLED GROUPS SERIES MX

MX	2	-	3/8	-	V01	X	F00	-	KK	-	LH

MX		SERIES
2	(1)	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
-		
3/8	(2)	IN / OUT THREADS: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
-		
V01	(3)	MODULE + [*] (to configure the modules, see the single components pages): F... = Filter FC... = Coalescing filter FCA... = Activated carbons filter R... = Pressure regulator L... = Lubricator FR... = Filter-Regulator V... = Lockable isolation valve AV... = Soft start valve B... = Take-off block (MX2: G1/2 only - MX3: G1 only)
	[*]	The following ACCESSORIES can be added after every single module: REGULATOR AND FILTER-REGULATOR MX2 +A56 = M053-P06 (Pressure gauge) +A57 = M053-P10 (Pressure gauge) +A58 = M063-P12 (Pressure gauge) REGULATOR AND FILTER-REGULATOR MX3 +A60 = M063-P06 (Pressure gauge) +A61 = M063-P12 (Pressure gauge) LOCKABLE ISOLATION VALVE MX2 +A30 = 2901 1/2" (Silencier) +A31 = 2921 1/2" (Silencier) +A32 = 2931 1/2" (Silencier) +A33 = 2938 1/2" (Silencier) LOCKABLE ISOLATION VALVE MX3 +A34 = 2901 3/4" (Silencier) +A35 = 2921 3/4" (Silencier) +A36 = 2931 3/4" (Silencier) SOFT START VALVE +A00 = PM11-NA (Pressure switch, normally open) +A01 = PM11-NC (Pressure switch, normally closed) TAKE-OFF BLOCK MX2 +A08 = PM11-NA (normally open pressure switch) with fitting for fixing to the module +A09 = PM11-NC (normally closed pressure switch) with fitting for fixing to the module +A03 = PM11-SC with fitting for fixing to the module Example: MX2-3/8-V01+A32XF00-KK-LH TAKE-OFF BLOCK MX3 +A06 = PM11-NA (normally open pressure switch) with fitting for fixing to the module +A07 = PM11-NC (normally closed pressure switch) with fitting for fixing to the module +A02 = PM11-SC with fitting for fixing to the module Example: MX3-3/4-V01+A36XF00-KK-LH
X	(4)	MODULES CONNECTION (according to the positioning scheme on p. 3/1.50.04): X = Rapid clamp kit Z = Rapid clamp kit with wall fixing screw Y = Rapid clamp kit with wall fixing brackets
F00	(5) + [*]	see MODULE (3)
-		
KK	(6)	TERMINAL CONNECTIONS + [**] (according to the positioning scheme on p. 3/1.50.04): = no terminal connection HH = n° 1 rapid clamp kit with flanges (IN / OUT) JJ = n° 1 rapid clamp kit with wall fixing screws + flanges (IN / OUT) KK = n° 1 rapid clamp kit with wall fixing brackets + flanges (IN / OUT)
	[**]	WALL CONNECTION: REGULATOR and FILTER-REGULATOR S = Bracket (only with clamps mod. X o HH) Codes examples: MX3-1-R..XV..-S; MX3-1-R..XV..-HSH
-		
LH	(7)	FLOW DIRECTION: = from left to right (standard) LH = from right to left
	(4) + (5) + [*]	REPEATABLE COMBINATION for a "n" number of times

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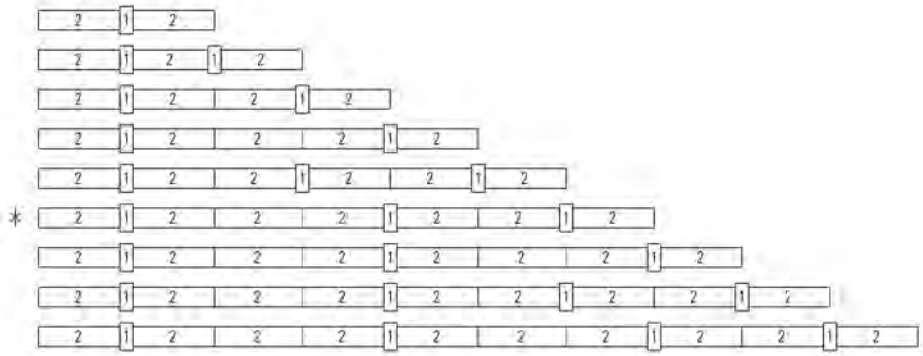
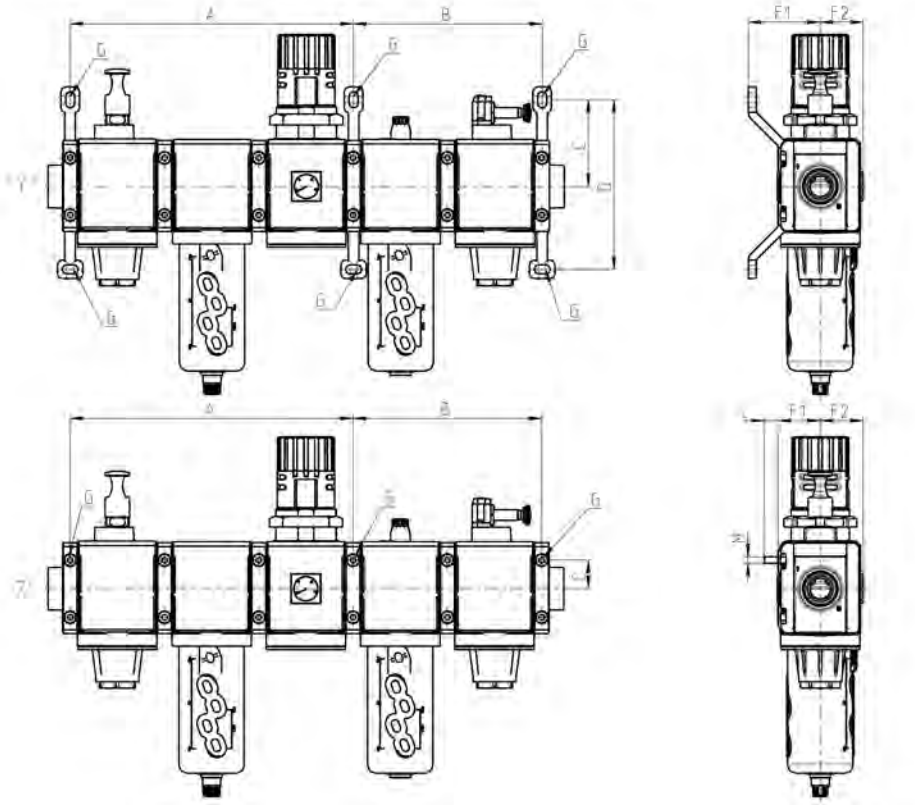
Wall fixing - mounting dimensions and positioning scheme

Legend of the POSITIONING SCHEME:
1 = rapid clamp with wall fixing screw
or with wall fixing bracket
2 = module / flange

* POSITIONING SCHEME referring to drawings " Y " and " Z ".

Legend of the ASSEMBLED GROUPS DRAWINGS:
" Y " = with rapid clamps with wall fixing brackets (MX...-Y)
" Z " = with rapid clamp with wall fixing screws (MX...-Z)
G = fixing point





Mod.	A	B	C	D	F1	F2	L	M
MX2-Y	210	140	68,5	134,5	70	37	-	-
MX2-Z	210	140	23	-	37,5	37	13,5	M5
MX3-Y	267	178	82	160	68	40,5	-	-
MX3-Z	267	178	27	-	40,5	40,5	13	M6

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CODING EXAMPLE

MX	2	-	3/8	-	0...1

MX	SERIES
2	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
3/8	PORTS: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
000001	GROUP COMPOSITION: 000001 = F10 + R004 + L00 000002 = FR1004 + L00 000003 = V01 + FR1004 + L00 000004 = V01 + FR1004 000005 = FR1004 + V16 + AV 000006 = FR1004 + L00 + V16 + AV 000007 = V01 + FR1004 + V16 + AV 000008 = V01 + FR1004 + L00 + V16 + AV + PRESS. NO 000009 = V01 + FR1004 + L00 + V16 + AV + PRESS. NC 000010 = V01 + FR1004 + V16 + AV + PRESS. NO 000011 = V01 + FR1004 + V16 + AV + PRESS. NC 000012 = F13 + FC03

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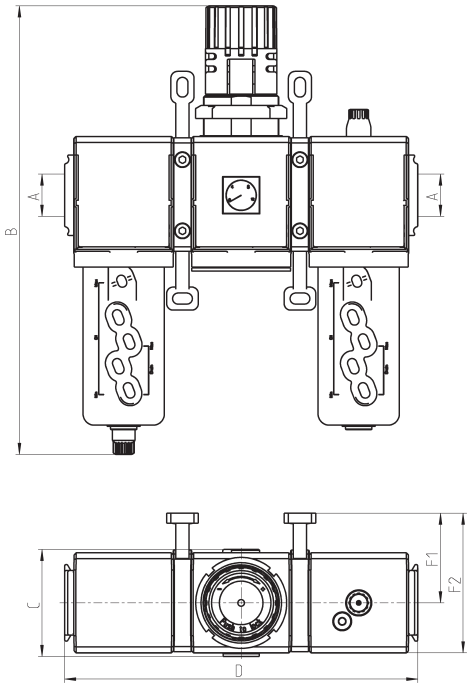
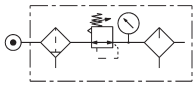
Composition of the assembled group 000001

Components:
Filter
Regulator
Lubricator

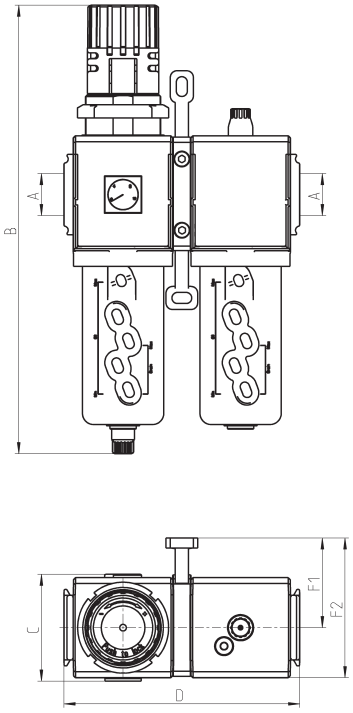


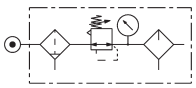


Mod.	A	B	C	D	F1	F2
MX2-3/8-000001	G3/8	289	74,5	210	70	104,5
MX2-1/2-000001	G1/2	289	74,5	210	70	104,5
MX2-3/4-000001	G3/4	289	74,5	210	70	104,5
MX3-3/4-000001	G3/4	345	81	268,5	68	106
MX3-1-000001	G1	345	81	268,5	68	106

Composition of the assembled group 000002

Components:
Filter-regulator
Lubricator





Mod.	A	B	C	D	F1	F2
MX2-1/2-000002	G3/8	289	74,5	140	70	104,5
MX2-3/8-000002	G1/2	289	74,5	140	70	104,5
MX2-3/4-000002	G3/4	289	74,5	140	70	104,5
MX3-3/4-000002	G3/4	345	81	179	68	106
MX3-1-000002	G1	345	81	179	68	106

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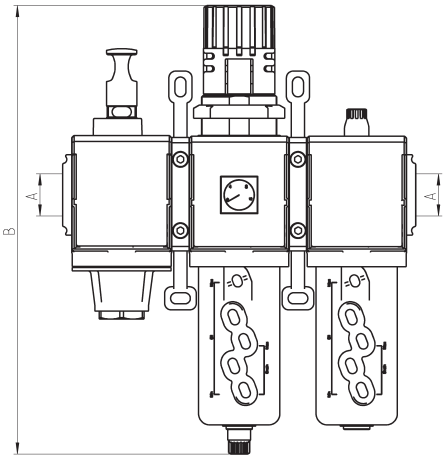
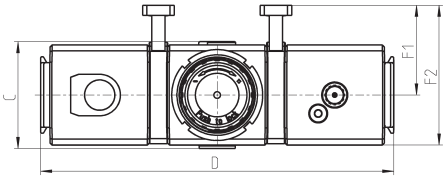
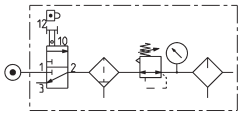
Composition of the assembled group 000003

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



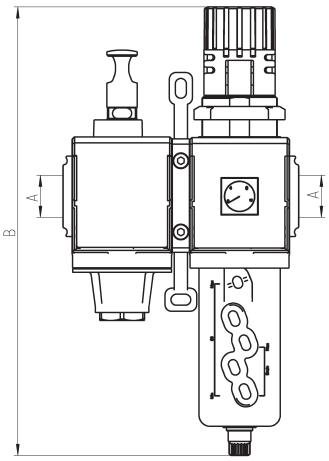


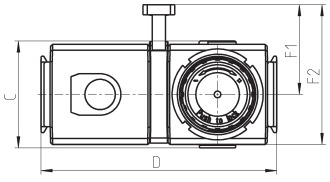


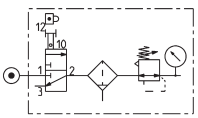
Mod.	A	B	C	D	F1	F2
MX2-3/8-000003	G3/8	289	74,5	210	70	104,5
MX2-1/2-000003	G1/2	289	74,5	210	70	104,5
MX2-3/4-000003	G3/4	289	74,5	210	70	104,5
MX3-3/4-000003	G3/4	345	81	268,5	68	106
MX3-1-000003	G1	345	81	268,5	68	106

Composition of the assembled group 000004

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







Mod.	A	B	C	D	F1	F2
MX2-3/8-000004	G3/8	289	74,5	140	70	104,5
MX2-1/2-000004	G1/2	289	74,5	140	70	104,5
MX2-3/4-000004	G3/4	289	74,5	140	70	104,5
MX3-3/4-000004	G3/4	345	81	179	68	106
MX3-1-000004	G1	345	81	179	68	106

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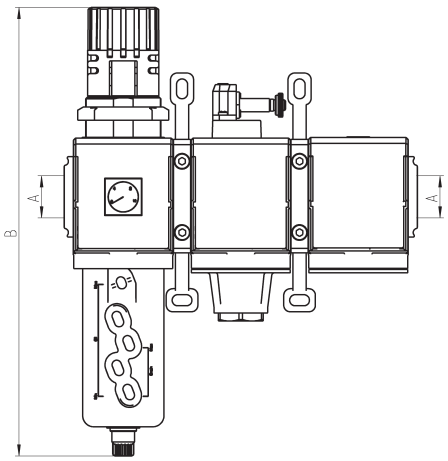
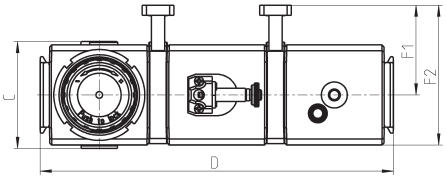
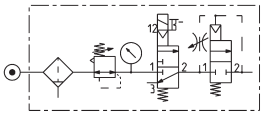
Composition of the assembled group 000005

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



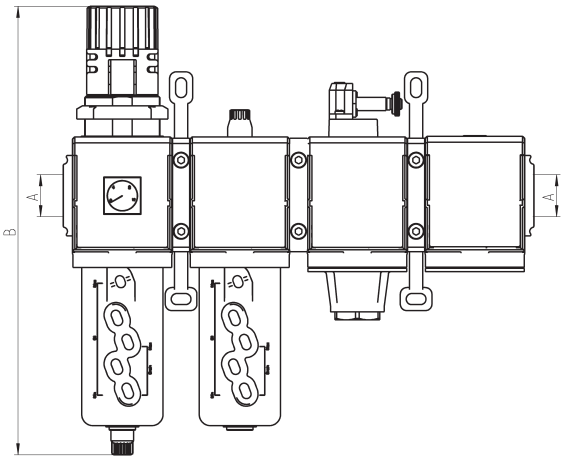


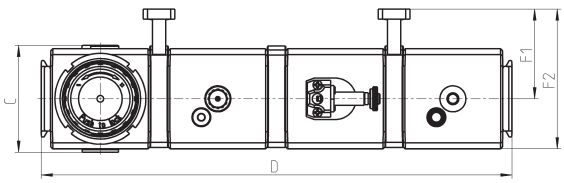


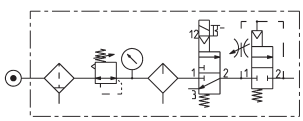
Mod.	A	B	C	D	F1	F2
MX2-3/8-000005	G3/8	289	74,5	210	70	104,5
MX2-1/2-000005	G1/2	289	74,5	210	70	104,5
MX2-3/4-000005	G3/4	289	74,5	210	70	104,5
MX3-3/4-000005	G3/4	345	81	268,5	68	106
MX3-1-000005	G1	345	81	268,5	68	106

Composition of the assembled group 000006

Components:
Filter-regulator
Lubricator
Soft start valve







Mod.	A	B	C	D	F1	F2
MX2-3/8-000006	G3/8	289	74,5	280	70	104,5
MX2-1/2-000006	G1/2	289	74,5	280	70	104,5
MX2-3/4-000006	G3/4	289	74,5	280	70	104,5
MX3-3/4-000006	G3/4	345	81	358	68	106
MX3-1-000006	G1	345	81	358	68	106

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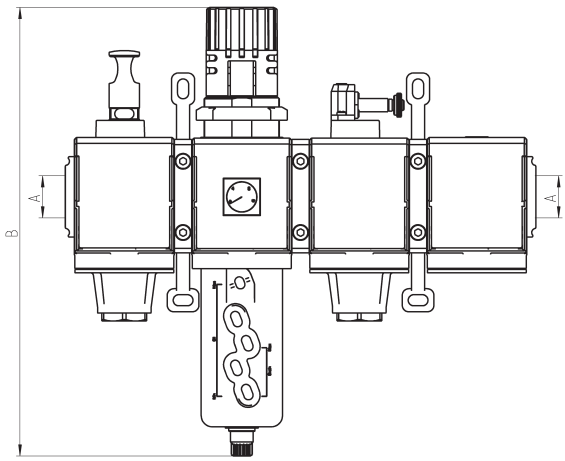
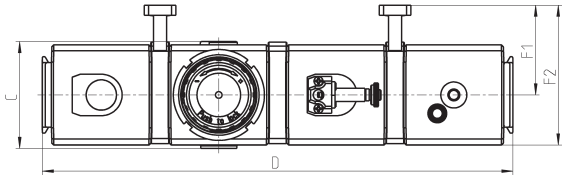
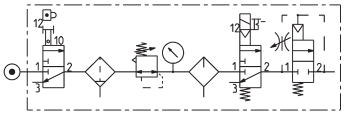
Composition of the assembled group 000007

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



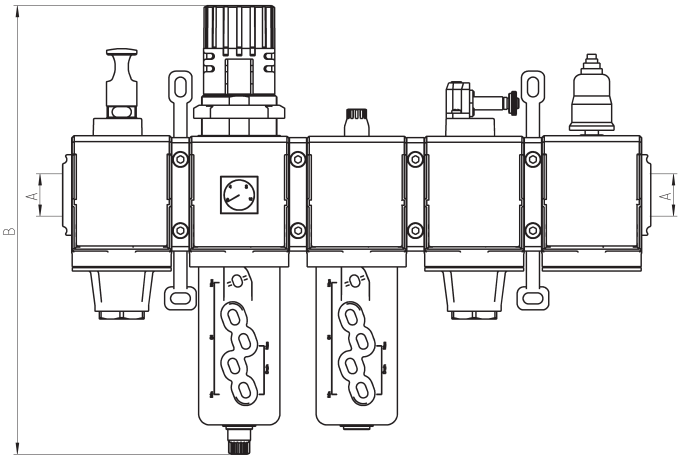


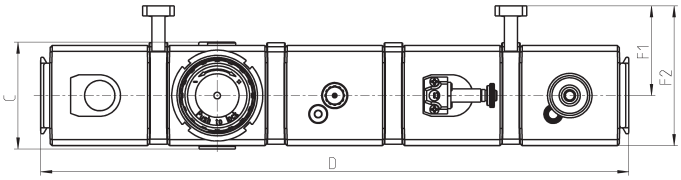


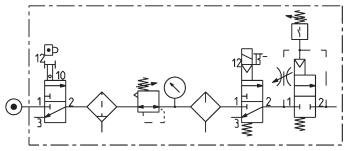
Mod.	A	B	C	D	F1	F2
MX2-3/8-000007	G3/8	289	74,5	280	70	104,5
MX2-1/2-000007	G1/2	289	74,5	280	70	104,5
MX2-3/4-000007	G3/4	289	74,5	280	70	104,5
MX3-3/4-000007	G3/4	345	81	358	68	106
MX3-1-000007	G1	345	81	358	68	106

Composition of the assembled group 000008

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







Mod.	A	B	C	D	F1	F2
MX2-3/8-000008	G3/8	289	74,5	350	70	104,5
MX2-1/2-000008	G1/2	289	74,5	350	70	104,5
MX2-3/4-000008	G3/4	289	74,5	350	70	104,5
MX3-3/4-000008	G3/4	345	81	447,5	68	106
MX3-1-000008	G1	345	81	447,5	68	106

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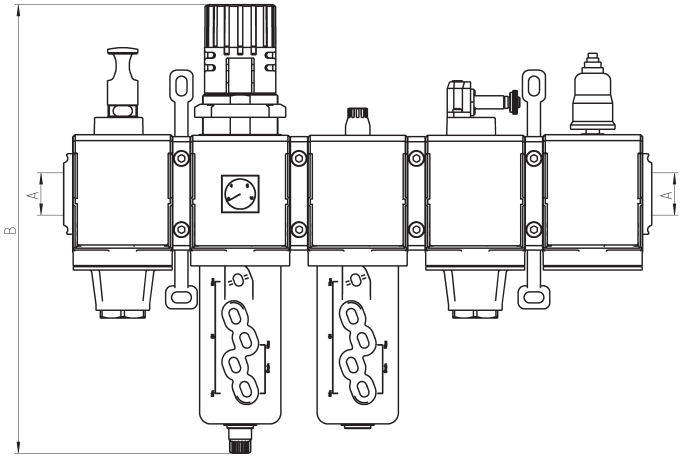
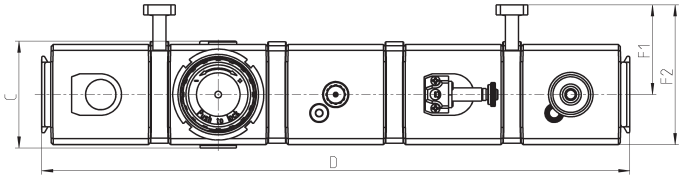
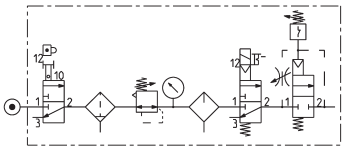
Composition of the assembled group 000009

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



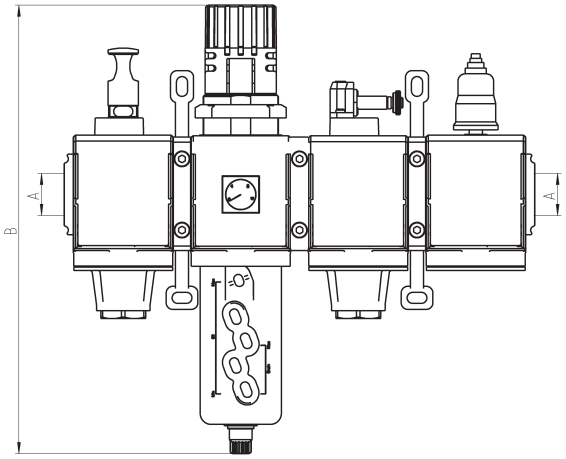


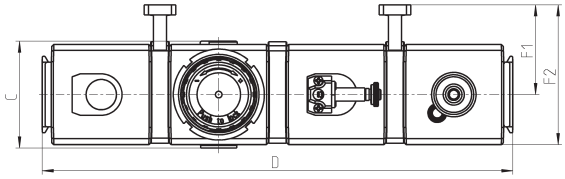


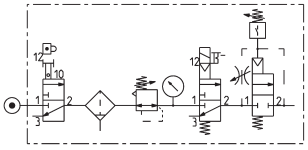
Mod.	A	B	C	D	F1	F2
MX2-3/8-000009	G3/8	289	74,5	350	70	104,5
MX2-1/2-000009	G1/2	289	74,5	350	70	104,5
MX2-3/4-000009	G3/4	289	74,5	350	70	104,5
MX3-3/4-000009	G3/4	345	81	447,5	68	106
MX3-1-000009	G1	345	81	447,5	68	106

Composition of the assembled group 000010

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







Mod.	A	B	C	D	F1	F2
MX2-3/8-000010	G3/8	289	74,5	280	70	104,5
MX2-1/2-000010	G1/2	289	74,5	280	70	104,5
MX2-3/4-000010	G3/4	289	74,5	280	70	104,5
MX3-3/4-000010	G3/4	345	81	358	68	106
MX3-1-000010	G1	345	81	358	68	106

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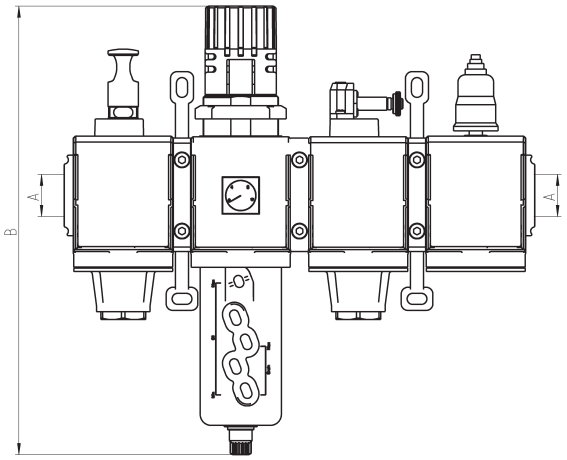
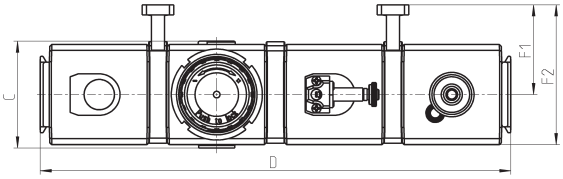
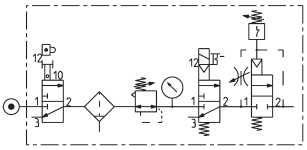
Composition of the assembled group 000011

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



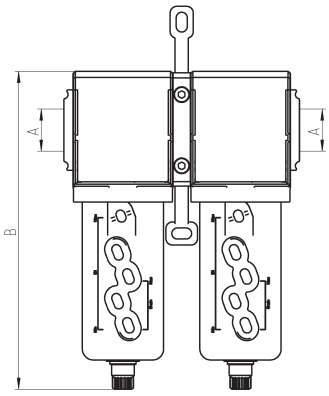


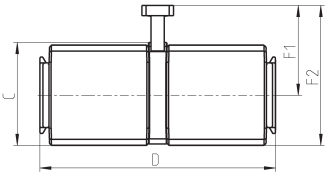


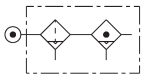
Mod.	A	B	C	D	F1	F2
MX2-3/8-000011	G3/8	289	74,5	280	70	104,5
MX2-1/2-000011	G1/2	289	74,5	280	70	104,5
MX2-3/4-000011	G3/4	289	74,5	280	70	104,5
MX3-3/4-000011	G3/4	345	81	358	68	106
MX3-1-000011	G1	345	81	358	68	106

Composition of the assembled group 000012

Components:
Filter
Coalescing filter







Mod.	A	B	C	D	F1	F2
MX2-3/8-000012	G3/8	210	72	140	70	104,5
MX2-1/2-000012	G1/2	210	72	140	70	104,5
MX2-3/4-000012	G3/4	210	72	140	70	104,5
MX3-3/4-000012	G3/4	231	78	179	68	106
MX3-1-000012	G1	231	78	179	68	106

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Series MC filters

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

Filters with filtering elements which are different from the standard ones, as well as further drainings of condensate can be ordered on request (see the coding example).

Series MC filters are available with ports G1/4, G3/8 and G1/2.
Bowls are made of metal with a transparent sight glass and have a condensate drain valve which can provide either a manual or semi-automatic function.

GENERAL DATA

Construction	compact modular with filtering element in HDPE
Materials	zama, NBR, tecnopolymer
Ports	G1/4 G3/8 G1/2
Max condensate capacity	cm³ 28 cm³ 72 cm³ 72
Weight	kg 0,339 kg 0,718 kg 0,688
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)
Porosity of filtering element	25 µm standard - 5 µm upon request
Draining of condensate	manual - semi automatic standard
Finishing	enamelled
Operating pressure	with standard drain and protected depressurisation 0,3 ÷ 16 bar with depressurisation 0,3 ÷ 10 bar with automatic drain 1,5 ÷12 bar for G3/8 and G1/2
Nominal flow	see graphs

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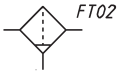
CODING EXAMPLE

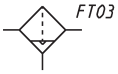
MC	2	02	-	F	0	0

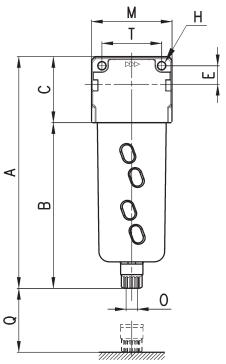
MC	SERIES
2	SIZE: 1 = G1/4 2 = G3/8 - G1/2
02	PORTS: 04 = G1/4 38 = G3/8 02 = G1/2
F	F = FILTER
0	FILTERING ELEMENT: 0 = 25µm (standard) 1 = 5µm
0	DRAINING OF CONDENSATE: 0 = normal - semiautomatic (standard) 3 = automatic drain (only for G3/8 and G1/2) 4 = depressurisation (only G1/4) 5 = depressurisation, protected 8 = no drain, port 1/8 For condensate drains see the section 3/5.10

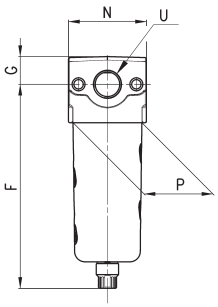
Filters Series MC

FT01 = filter without drain with threaded port
FT02 = filter with semiautomatic manual drain
FT03 = filter with automatic drain









DIMENSIONS

Mod.	A	B	C	E	F	G	H	M	N	O	P	Q	T	U
MC104-F00	143	102	41	11	126,5	16,5	4,5	45	45	G1/8	37	58	35	G1/4
MC238-F00	184	133	51	14	163	21	5,5	62	60	G1/8	53	72	46	G3/8
MC202-F00	184	133	51	14	163	21	5,5	62	60	G1/8	53	72	46	G1/2

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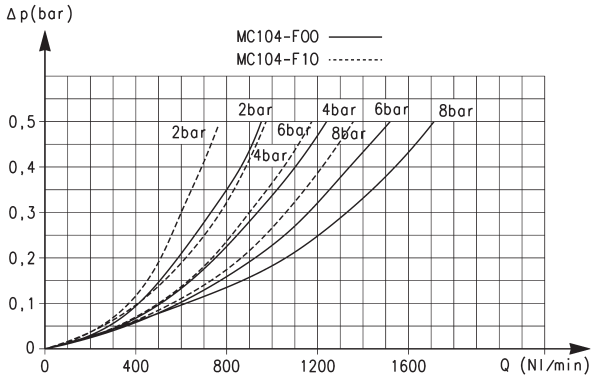
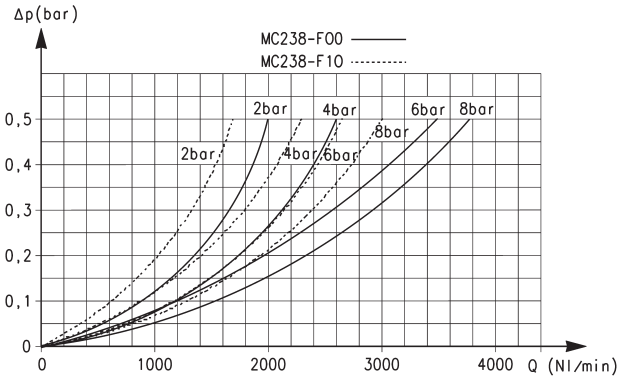
FLOW DIAGRAMS FOR FILTERS SERIES MC, G1/4 - G3/8 PORTS



Flow diagram for models: MC238-F00 and MC238-F10

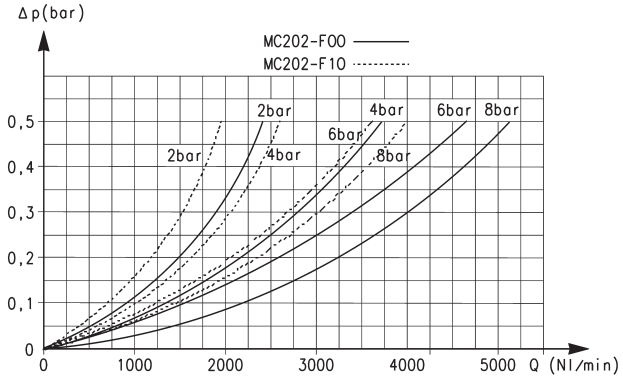
ΔP = Pressure drop
Q = Flow



Flow diagram for models: MC104-F00 and MC104-F10

ΔP = Pressure drop
Q = Flow

FLOW DIAGRAM FOR FILTERS SERIES MC, G1/2 PORTS



Flow diagram for models: MC202-F00 and MC202-F10

ΔP = Pressure drop
Q = Flow

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Series MC coalescing filters

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

Series MC coalescing filters are available with G1/4, G3/8 and G1/2 ports. The bowls of these filters are made of metal with a transparent sight glass and may have a condensate drain valve which can provide either a manual or semi-automatic function.

A version with automatic draining of condensate is also available.

GENERAL DATA

Construction	modular, coalescing elements
Materials	zama, NBR, technopolymer
Ports	G1/4 G3/8 G1/2
Max. condensate capacity	cm³ 28 78 78
Weight	kg 0,342 0,718 0,688
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)
Porosity of filtering element	0,01µm
Draining of condensate	manual - semi-automatic standard
Finish	enamelled
Operating pressure	with standard drain and protected depressurisation 0,3 ÷ 16 bar - with depressurisation 0,3 ÷ 10 bar - with automatic drain 1,5 ÷ 12 bar for G3/8 and G1/2
Nominal flow	see graph

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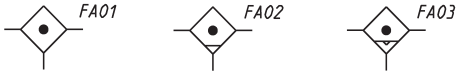
CODING EXAMPLE

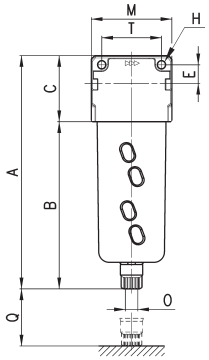
MC	2	02	-	F	B	0

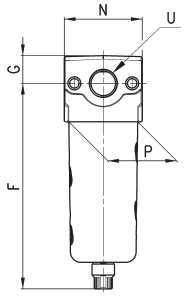
MC	SERIES
2	SIZE: 1 = G1/4 2 = G3/8 - G1/2
02	PORTS: 04 = G1/4 38 = G3/8 02 = G1/2
F	F = FILTER
B	FILTERING ELEMENT: B = 0,01µm
0	DRAINING OF CONDENSATE: 0 = manual - semi-automatic 3 = automatic (only for G3/8 and G1/2) 4 = depressurisation (only G1/4) 5 = depressurisation, protected 8 = no drain, port 1/8 For condensate drains see the section 3/5.10

Coalescing filters Series MC

FA01 = coalescing filter without drain with threaded port
FA02 = coalescing filter with semi-automatic manual drain
FA03 = coalescing filter with automatic drain







DIMENSIONS

Mod.	A	B	C	E	F	G	H	M	N	O	P	Q	T	U
MC104-FB0	143	102	41	11	126,5	16,5	4,5	45	45	G1/8	37	54	35	G1/4
MC238-FB0	184	133	51	14	163	21	5,5	62	60	G1/8	53	73	46	G3/8
MC202-FB0	184	133	51	14	163	21	5,5	62	60	G1/8	53	73	46	G1/2

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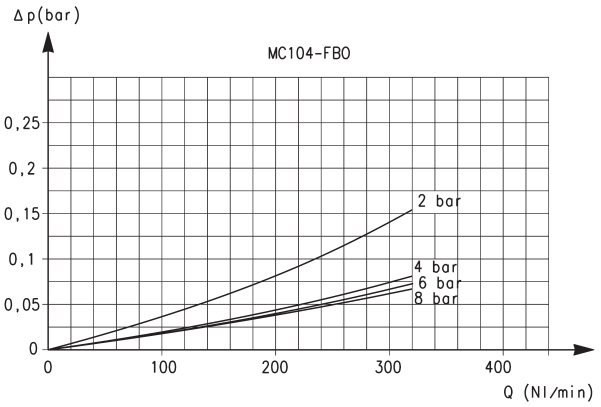
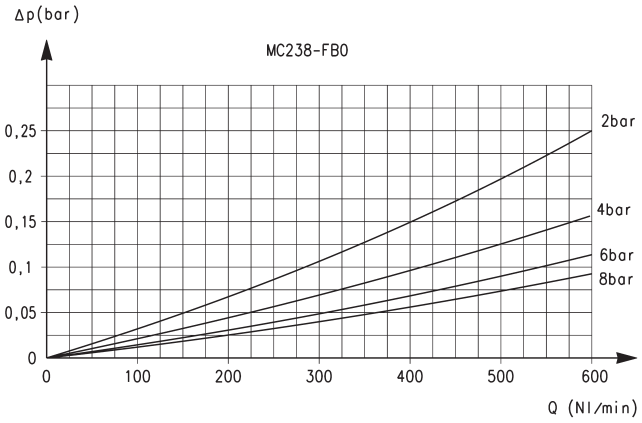
FLOW DIAGRAMS



Flow diagram for model: MC104-FB0
ΔP = Pressure drop
Q = Flow

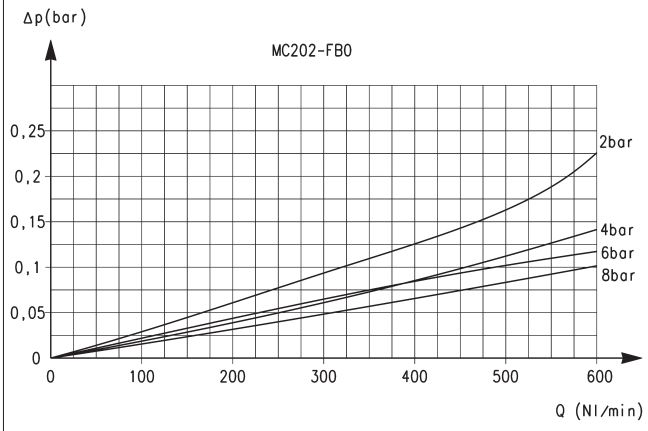
In order to guarantee the indicated performances, the maximum flow of the filter must be the one indicated in the graph. A higher flow rate is possible but the same performances are not guaranteed.



Flow diagram for model: MC238-FB0
ΔP = Pressure drop
Q = Flow

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 DIAGRAMS



Flow diagram for model: MC202-FB0
ΔP = Pressure drop
Q = Flow

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.

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Series MC pressure regulators

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

Series MC pressure regulators are available with ports G1/4, G3/8 and G1/2.
Versions with secondary pressure relieving are usually available and all regulators can be panel mounted.

GENERAL DATA

Construction	modular, compact, diaphragm type			
Materials	zama, brass, NBR, technopolymer			
Ports		G1/4	G3/8	G1/2
Weight	kg	0,323	0,644	0,624
Pressure gauge ports	G1/8			
Mounting	in-line, wall or console mounting (in any position)			
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)			
Finishing	enamelled			
Inlet pressure	0 ÷ 16 bar			
Outlet pressure	0.5 ÷ 10 bar or 0 ÷ 4 bar			
Nominal flow	see graph			
Secondary pressure relieving	standard			

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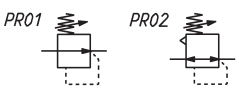
CODING EXAMPLE

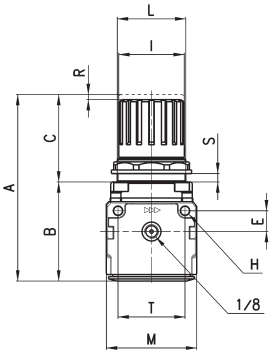
MC	2	02	-	R	0	0

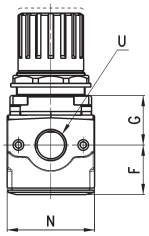
MC	SERIES
2	SIZE: 1 = G1/4 2 = G3/8 - G1/2
02	PORTS 04 = G1/4 38 = G3/8 02 = G1/2
R	R = REGULATOR
0	OPERATING PRESSURE: 0 = 0.5 ÷ 10 (standard) 1 = 0 ÷ 4 2 = 0 ÷ 2 (only G1/4) 7 = 0,5 ÷ 7 (only G1/4)
0	DESIGN TYPE: 0 = self-relieving (standard) 1 = non-relieving 5 = precise relieving

Pressure regulators Series MC

PR01 = regulator without relieving
PR02 = regulator with relieving







DIMENSIONS

Mod.	A	B	C	E	F	G	H	I	L	M	N	R	S	T	U
MC104-R00	94	56	38	11	28,5	27,5	4,5	28	30X1,5	45	45	3	0÷6	35	G1/4
MC238-R00	127	67	60	14	34	35	5,5	45	47X1,5	62	60	3,5	0÷9	46	G3/8
MC202-R00	127	67	60	14	34	35	5,5	45	47X1,5	62	60	3,5	0÷9	46	G1/2

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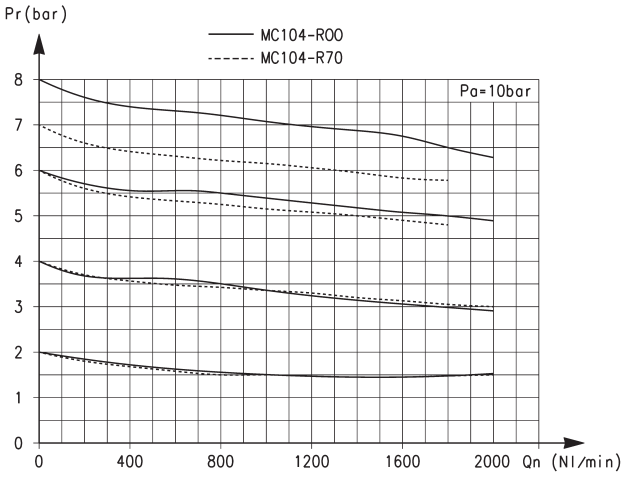
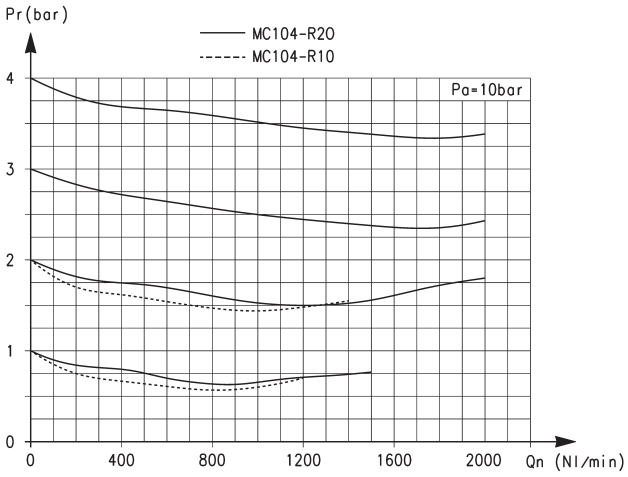
FLOW DIAGRAMS



Flow diagrams for models: MC104-R00 and MC104-R70

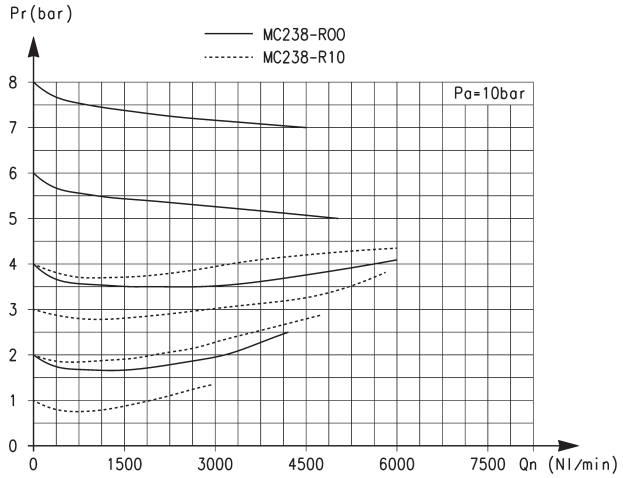
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow



Flow diagrams for models: MC104-R10 and MC104-R20

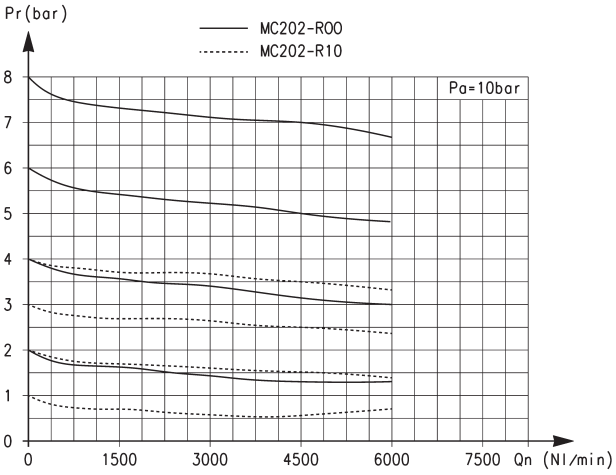
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

FLOW DIAGRAMS



Flow diagrams for models: MC238-R00 and MC238-R10

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow



Flow diagrams for models: MC202-R00 and MC202-R10

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

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Series MC lubricators

Ports G1/4, G3/8 and G1/2
Modular
with metal bowl and bayonet-type mounting

Series MC lubricators are available with ports G1/4, G3/8 and G1/2. The bowls of these lubricators are made of metal and are equipped with a transparent viewer. The oil flow can be monitored through the small transparent cap and regulated by means of the proper adjusting screw.

GENERAL DATA

Construction	modular compact
Materials	zama, NBR, technopolymer
Ports	G1/4 G3/8 G1/2
Oil capacity	cm³ 37 170 170
Weight	kg 0,338 0,712 0,674
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)
Oil refilling	without pressure (G1/4) also during use (G3/8 - G1/2)
Oil for lubrication	from 3°E ÷ 10°E(ask our engineers for types)
Finishing	enamelled
Operating pressure	0 ÷ 16 bar
Nominal flow	see graphs
Min. air consumption for lubr (Nl/min) **at 1 bar** **at 6 bar**	G1/4 - G3/8 - G1/2 8 - 8 - 8,5 15 - 17,5 - 15,5

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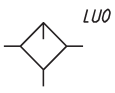
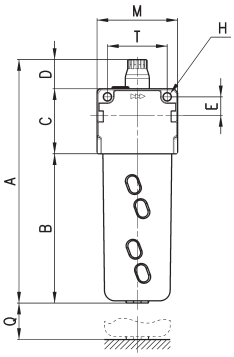
CODING EXAMPLE

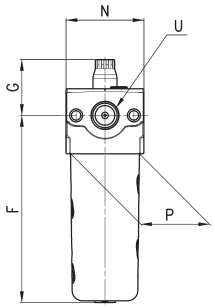
MC	2	02	-	L	00

M	SERIES
2	SIZE 1 = G1/4 2 = G3/8 - G1/2
02	PORTS 04 = G1/4 38 = G3/8 02 = G1/2
L	L = LUBRICATOR
00	DESIGN TYPE 00 = atomized oil

Lubricators Series MC



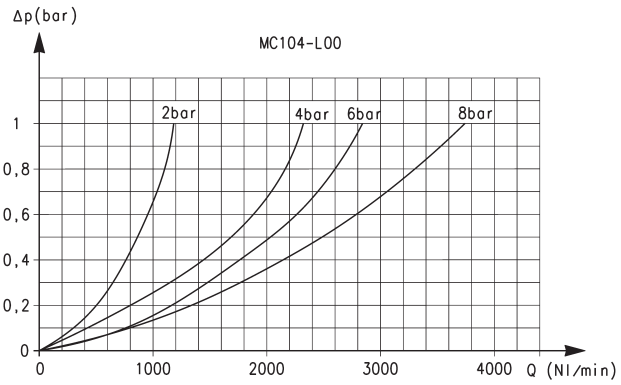




DIMENSIONS

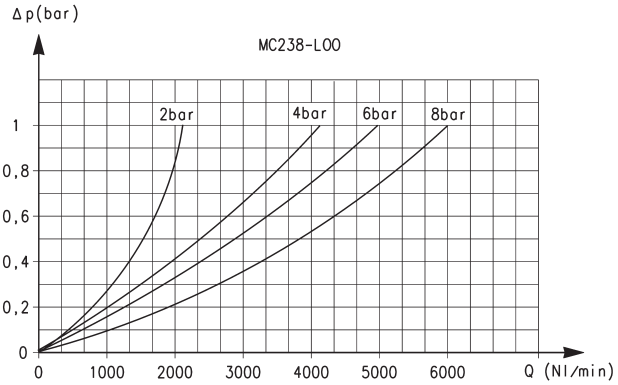
Mod.	A	B	C	D	E	F	G	H	M	N	P	Q	T	U
MC104-L00	148	83	40	25	11	107	41	4,5	45	45	37	84	35	G1/4
MC238-L00	187	115	50	22	14	144	43	5,5	62	60	53	117	46	G3/8
MC202-L00	187	115	50	22	14	144	43	5,5	62	60	53	117	46	G1/2

FLOW DIAGRAMS



Flow diagram for model: MC104-L00

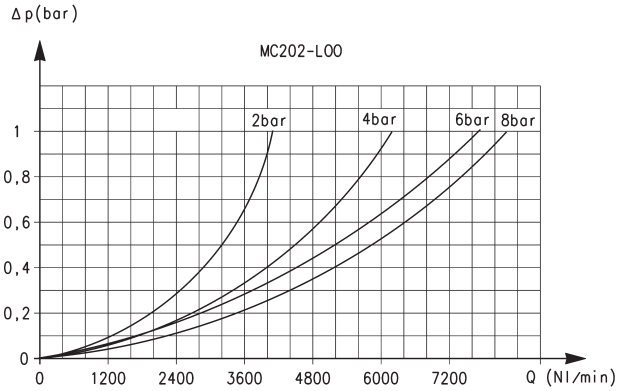
ΔP = Pressure drop
Q = Flow



Flow diagram for model: MC238-L00

ΔP = Pressure drop
Q = Flow

FLOW DIAGRAM



Flow diagram for model: MC202-L00

ΔP = Pressure drop
Q = Flow

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Series MC filter-regulators

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

Series MC filter regulators are available with ports G1/4, G3/8 and G1/2. They combine the features of the filters and regulators and have smaller overall dimensions than the two separate components.

GENERAL DATA

Construction	compact modular with filtering element in HDPE - diaphragm type			
Materials	zama, NBR, technopolymer			
Ports		G1/4	G3/8	G1/2
Condensate capacity	cm^3	28	72	72
Weight	kg	0,443	0,948	0,928
Pressure gauge ports	G1/8			
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)			
Porosity of filtering element	25 µm standard - 5 µm upon request			
Draining of condensate	manual - semi-automatic standard			
Finishing	enamelled			
Inlet pressure	with standard drain and protected depressurisation 0,3 ÷ 16 bar with depressurisation 0,3 ÷ 10 bar with automatic drain 1,5 ÷ 12 bar for G3/8 and G1/2			

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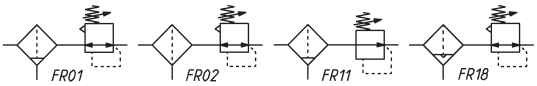
CODING EXAMPLE

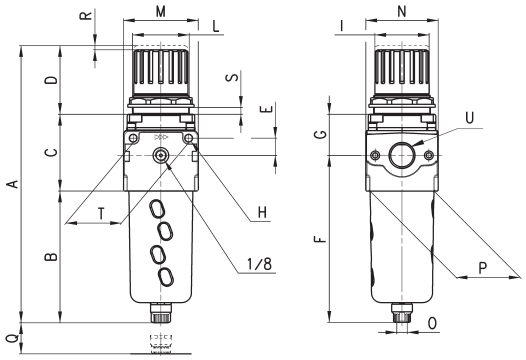
MC	2	02	-	D	0	0	-	4

MC	SERIES
2	SIZE: 1 = G1/4 2 = G3/8 - G1/2
02	PORTS: 04 = G1/4 38 = G3/8 02 = G1/2
D	D = FILTER-REGULATOR
0	FILTERING ELEMENT: 0 = 25µm (standard) 1 = 5µm
0	DRAINING OF CONDENSATE: 0 = manual semiautomatic, self-relieving 1 = manual semiautomatic, non relieving 3 = automatic, self-relieving (only for G3/8 and G1/2) 4 = depressurisation, self-relieving (only G1/4) 5 = depressurisation, protected, self-relieving 8 = no drain, port G1/8, self-relieving For condensate drains see the section 3/5.10
4	WORKING PRESSURE = 0,5 ÷ 10 2 = 0 ÷ 2 (only G1/4) 4 = 0 ÷ 4 7 = 0,5 ÷ 7 (only G1/4)

Filter-regulators Series MC

FR01 = filter-regulator with relieving and manual drain
FR02 = FR with relieving and without drain
FR11 = FR with manual drain and without relieving
FR18 = FR with relieving and automatic drain





DIMENSIONS

Mod.	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	U
MC104-D00	190,5	102	52	38	11	126,5	27,5	4,5	28	M30x1,5	45	45	G1/8	37	58	3	0 ÷ 6	35	G1/4
MC238-D00	256,5	133	64	59	14	162	35	5,5	45	M47x1,5	62	59	G1/8	53	72	3,5	0 ÷ 9	46	G3/8
MC202-D00	256,5	133	64	59	14	162	35	5,5	45	M47x1,5	62	59	G1/8	53	72	3,5	0 ÷ 9	46	G1/2

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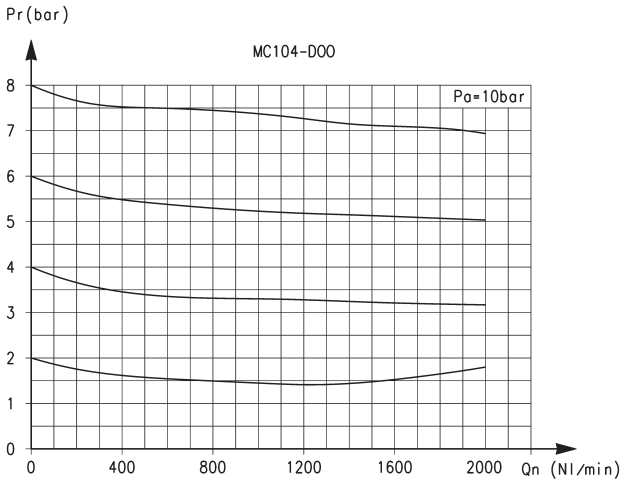
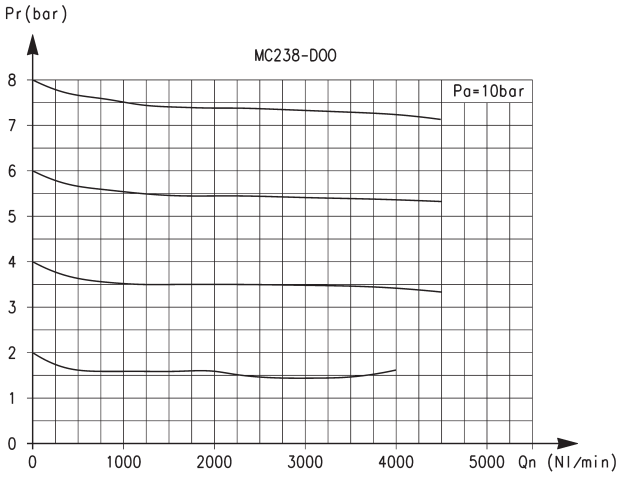
FLOW DIAGRAMS



Flow diagram for model: MC104-D00

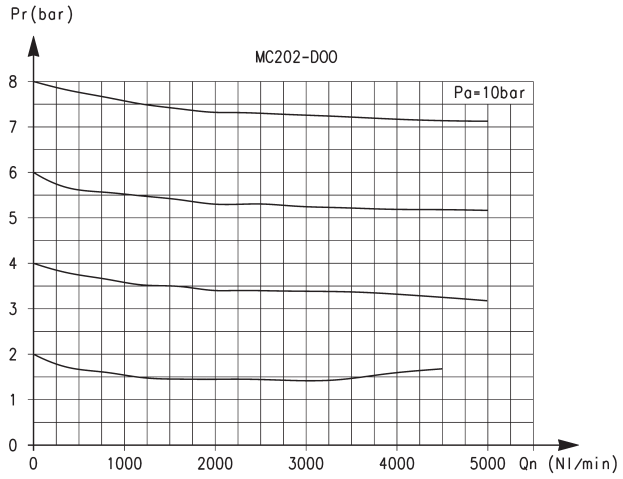
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow



Flow diagram for model: MC238-D00

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

FLOW DIAGRAM



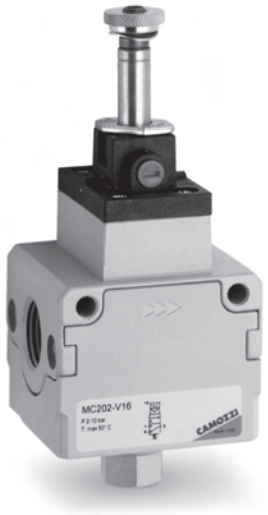
Flow diagram for model: MC202-D00

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

Series MC
lockable isolation 3/2-way valves

Electropneumatic, pneumatic and manual version
Ports G1/4, G3/8 and G1/2
Modular



The 3-way lockable isolation valves are available in the electropneumatic, pneumatic and manual version and are designed to block the air inlet of the FRL group and so pressurise and depressurise the equipment.

Positioning of these valves is often before the FRL unit.
The lockable isolation valves are available with ports G1/4, G3/8 and G1/2 and can be panel mounted.

GENERAL DATA

Construction	modular compact, poppet-type
Materials	zama, NBR, technopolymer
Ports	G1/4 G3/8 G1/2
Weight	kg 0,277 kg 0,536 kg 0,514
Mounting	in- line, wall or panel mounting (in any position)
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Finishing	enamelled
Operating pressure	2 ÷ 10 bar (-0,8 ÷ 10 bar in the pneumatic version)
Nominal flow	see graphs
Nominal exhaust flow	G1/4 = 1080 Nl/min G3/8 = 2380 Nl/min G1/2 = 2380 Nl/min
Flow determined	at 6 bar with Δp = 1 bar

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

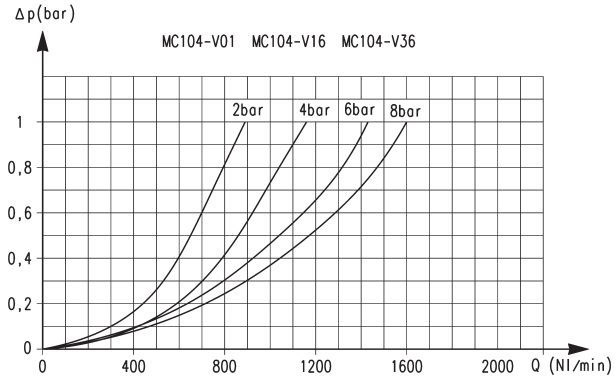
CODING EXAMPLE

MC	2	02	-	V	16

MC	SERIES
2	SIZE: 1 = G1/4 2 = G3/8 - G1/2
02	PORTS: 04 = G1/4 38 = G3/8 02 = G1/2
V	V = 3/2-WAY VALVE
16	DESIGN TYPE: 16 = electropneumatic 36 = pneumatic 01 = padlock valve (manual command)

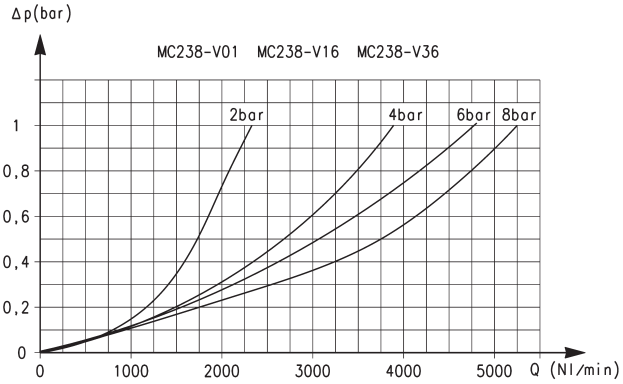
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

FLOW DIAGRAMS



Flow diagram for models:
MC104-V01
MC104-V16
MC104-V36

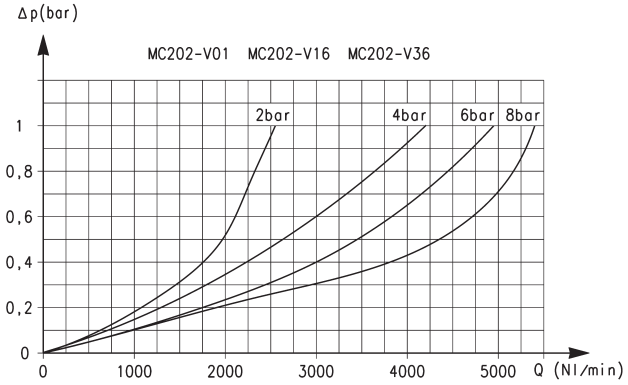
ΔP = Pressure drop
Q = Flow



Flow diagram for models:
MC238-V01
MC238-V16
MC238-V36

ΔP = Pressure drop
Q = Flow

FLOW DIAGRAM



Flow diagram for models:
MC202-V01
MC202-V16
MC202-V36

ΔP = Pressure drop
Q = Flow

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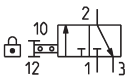
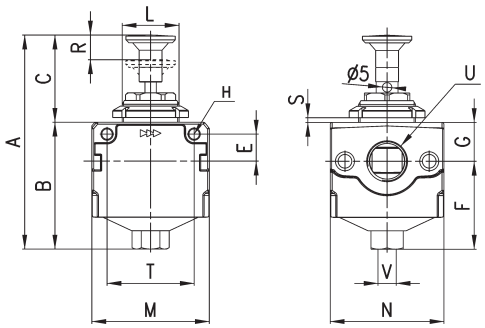
Lockable isolation valves Series MC - manual version

Actuating force at 6 bar :
- MC104-V01 = 29N
- MC238-V01 = 31N
- MC202-V01 = 31N

VN02





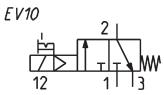
DIMENSIONS

Mod.	A	B	C	E	F	G	H	L	M	N	R	S	T	U	V
MC104-V01	96,5	54,5	42	11	38,5	16	4,5	M30x1,5	45	45	9	0 ÷ 6	35	G1/4	G1/8
MC238-V01	113	67	46	14	46,5	20,5	5,5	M30x1,5	62	60	13	0 ÷ 6	46	G3/8	G1/4
MC202-V01	113	67	46	14	46,5	20,5	5,5	M30x1,5	62	60	13	0 ÷ 6	46	G1/2	G1/4

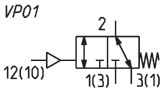
Lockable isolation valves Series MC - electro-/pneumatic version

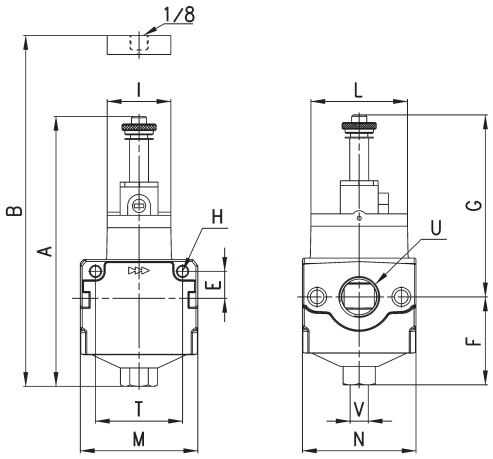
EV10 = solenoid valve, 3/2 NC, monostable, with bistable manual override
VP01 = pneumatically operated valve, 3/2, monostable, mechanical spring

EV10



VP01





DIMENSIONS

Mod.	A	B	E	F	G	H	I	L	M	N	T	U	V	Symbol
MC104-V16	120	-	11	38,5	81,5	4,5	22	32	45	45	35	G1/4	G1/8	EV10
MC238-V16	142,5	-	14	46,5	96	5,5	33,5	51	62	60	46	G3/8	G1/4	EV10
MC202-V16	142,5	-	14	46,5	96	5,5	33,5	51	62	60	46	G1/2	G1/4	EV10
MC104-V36	-	77,5	11	38,5	-	4,5	22	32	45	45	35	G1/4	G1/8	VP01
MC238-V36	-	93,5	14	46,5	-	5,5	33,5	51	62	60	46	G3/8	G1/4	VP01
MC202-V36	-	93,5	14	46,5	-	5,5	33,5	51	62	60	46	G1/2	G1/4	VP01

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Series MC soft start valves

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

Series MC soft start valves are used to avoid damages to people or equipment when pressurising pneumatic systems containing cylinders.
The features of these components allow to pressurise an equipment up to 50% of the indicated pressure, after which 100% is reached rapidly.
The usual location of the soft start valve is after the FRL unit; in fact the modular design allows for perfect adaptability with all Series MC.

A pressure switch can be mounted into the upper part of the unit after removal of the S2610 G1/8 plug.
An electrical or pneumatic 3 way valve should be installed at the bottom of the unit to allow depressurisation.

GENERAL DATA

Construction	modular, compact, poppet type			
Materials	zama, NBR, technopolymer			
Ports		G1/4	G3/8	G1/2
Weight	Kg	0,275	0,566	0,544
Mounting	in-line wall or panel mounting (in any position)			
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)			
Finishing	enamelled			
Operating pressure	2 ÷ 10 bar			
Nominal flow (determined at 6 bar with ΔP1)	G1/4 = 1850 Nl/min, G3/8 = 4000 Nl/min, G1/2 = 4350 Nl/min			

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General terms and conditions for sale are available on www.camozzi.com.

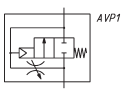
CODING EXAMPLE

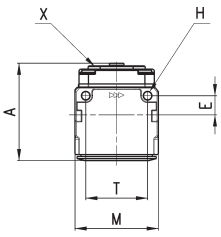
MC	2	02	-	AV

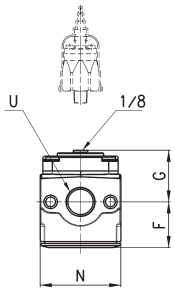
MC	SERIES
2	SIZE: 1 = G1/4 2 = G3/8 - G1/2
02	PORTS: 04 = G1/4 38 = G3/8 02 = G1/2
AV	AV = SOFT START VALVE

Soft start valve Series MC

X = adjustment screw







DIMENSIONS

Mod.	A	E	F	G	H	M	N	T	U
MC104-AV	59,5	11	28,5	31	4,5	45	45	35	G1/4
MC238-AV	72,5	14	34	38,5	5,5	62	60	46	G3/8
MC202-AV	72,5	14	34	38,5	5,5	62	60	46	G1/2

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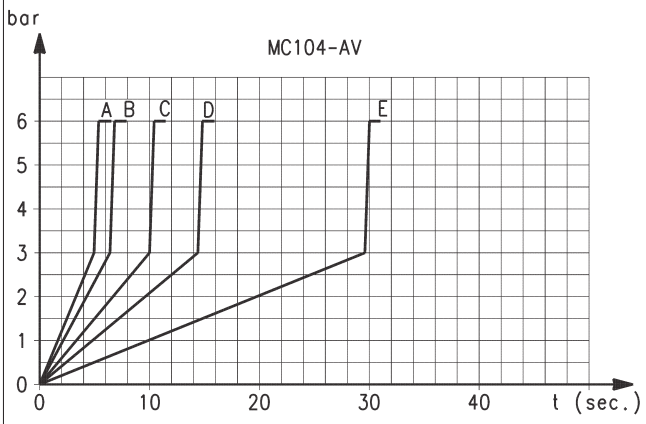
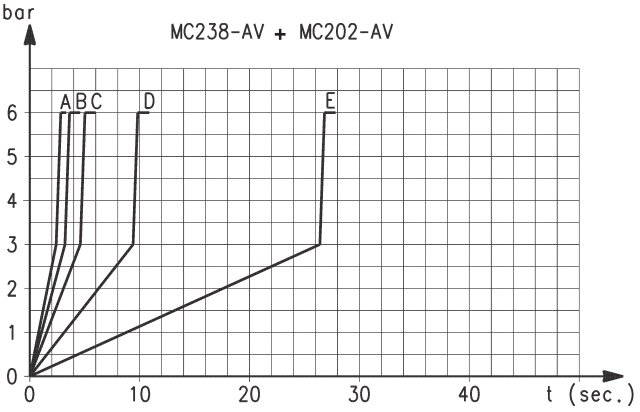
DIAGRAMS FOR PRESSURISATION TIMES

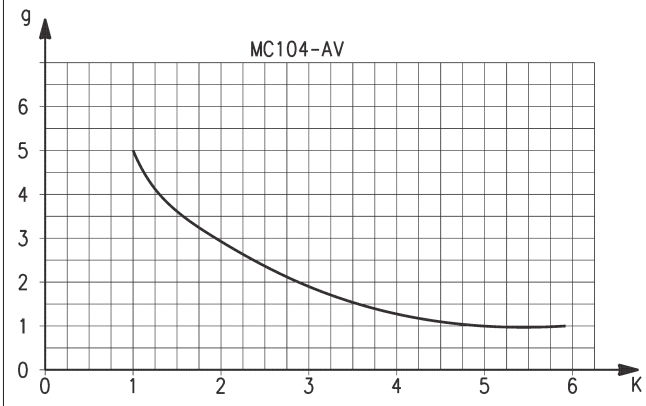


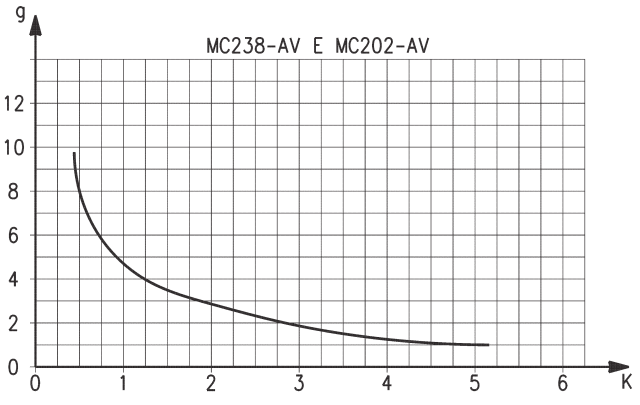


Pressurisation times as to the n° of turns of the regulation screw, with downstream volume of 5 litres. A = 5 turns - B = 4 turns - C = 3 turns - D = 2 turns - E = 1 turn. “K” = n° of turns of the regulation screw required to obtain the required pressurisation time with an inlet pressure of 6 bar. Variations of the inlet pressure can cause deviations of the pressure time by ± 20%. K = t/V where: V = volume of the downstream system in litres; t = desired pressuring time in seconds.

Pressurisation times as to the n° of turns of the regulation screw, with downstream volume of 5 litres. A = 9 turns - B = 7 turns - C = 5 turns - D = 3 turns - E = 1 turn. “K” = n° of turns of the regulation screw required to obtain the required pressurisation time with an inlet pressure of 6 bar. Variations of the inlet pressure can cause deviations of the pressure time by ± 20%. K = t/V where: V = volume of the downstream system in litres; t = desired pressuring time in seconds.

VARIATION IN PRESSURISATION - Example





Example: MC104-AV
V = 5 litres
t = 16 seconds
K = 16/5 = 3,2
g = number of turns
Using in the graph this value K, the number of turns of the regulation screw will be approx. 1,8.

Example: MC238-AV - MC202-AV
V = 5 litres
t = 16 seconds
K = 16/5 = 3,2
g = number of turns
Using in the graph this value K, the number of turns of the regulation screw will be approx. 1,8.

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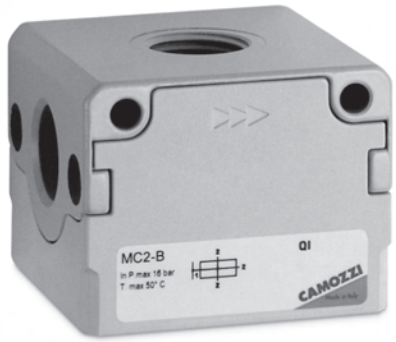
Series MC take-off blocks

Ports G1/4 and G1/2
Modular



The take-off blocks, when equipped with a no return valve, allow the use of non lubricated air and should be inserted between the regulator and the lubricator.
If mounted as last element, they should be assembled with terminal flanges.

GENERAL DATA

Construction	modular, compact, diaphragm type
Materials	zama, NBR, technopolymer
Ports	G1/4 G1/2
Weight	kg 0,232 kg 0,379
Take off ports	G1/4 G1/2
Mounting	in- line or wall mounting (in any position)
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Finishing	enamelled
Operating pressure	0 ÷ 16 bar
Nominal flow (6 bar ΔP 1bar)	MC1-B = 4080 Nl/min MC1-B-VNR = 2350 Nl/min MC2-B = 8400 Nl/min MC2-B-VNR = 5600 Nl/min

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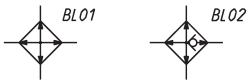
CODING EXAMPLE

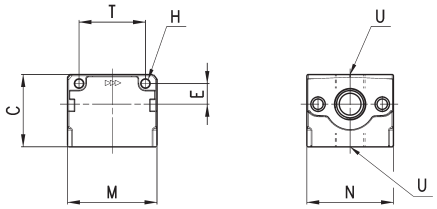
MC	2	-	B	-	VNR

MC	SERIES
2	SIZE: 1 = G1/4 2 = G1/2
B	B = TAKE OFF BLOCK
VNR	VERSION: = standard VNR = with no return valve

Take off blocks Series MC

BL01 = take-off block
BL02 = take-off block with VNR





DIMENSIONS

Mod.	C	H	E	M	N	T	U		Symbol
MC1-B	43	4,5	11	45	45	35	G1/4	1	BL01
MC1-B-VNR	43	4,5	11	45	45	35	G1/4	1	BL02
MC2-B	50	5,5	14	62	60	46	G1/2	2	BL01
MC2-B-VNR	50	5,5	14	62	60	46	G1/2	2	BL02

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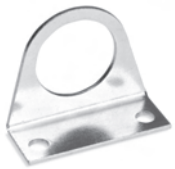
ACCESSORIES FOR SERIES MC

Terminal flanges
(kit A)

Mounting brackets
(kit B)



Mounting bracket
Mod. C114-ST

Mounting bracket
Mod. C114-ST/1

Mounting bracket
Mod. C114-ST/2

Mounting bracket
Mod. C238-ST/1

Mounting bracket
Mod. MX2-S

Tie-rods for assembling
(kit C)

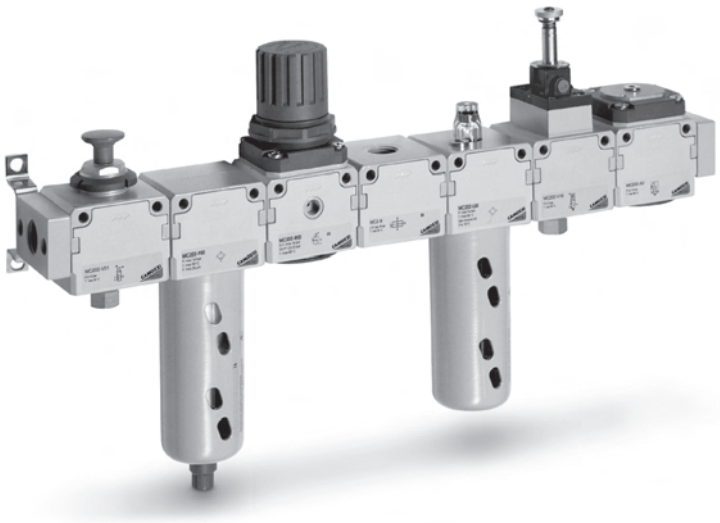
Tie-rods for assembling
(kit D)

Screws for assembling
(kit E)

Screws for assembling
(kit F)

Screws for assembling
(kit G)

Assembly O-ring



Systems of rapid connections designed to make mounting easier.

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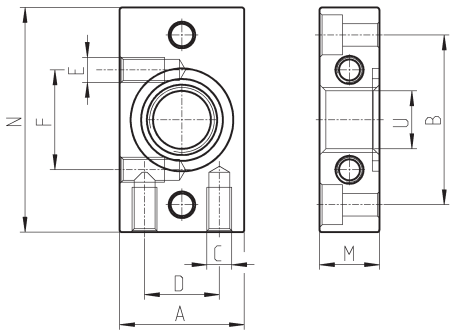
Terminal flanges (kit A)

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.

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



DIMENSIONS

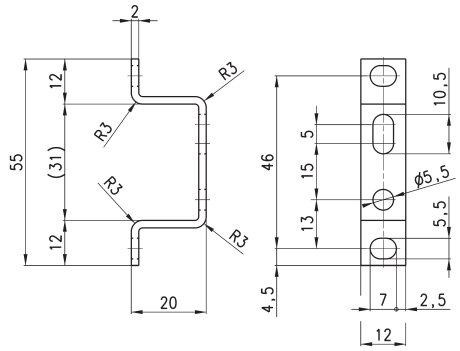
Mod.	A	B	C	D	E	F	N	M	U	size
MC104-FL	25	34	M5	15	M5	20	45	12	G1/4	1
MC238-FL	35	44,5	M5	20	-	-	60	14	G3/8	2
MC202-FL	35	44,5	M5	20	-	-	60	14	G1/2	2

Mounting bracket for (kit B)

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

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

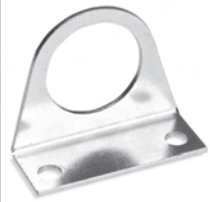
Materials: zinc-plated steel brackets and screws.



DIMENSIONS

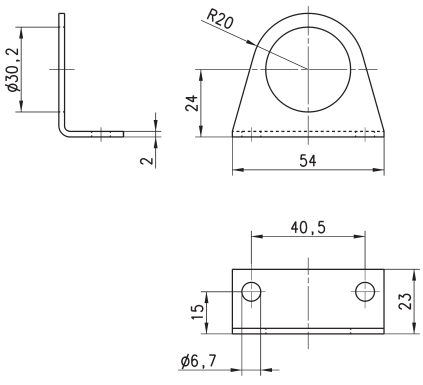
Mod.
MC104-ST

Mounting bracket Mod. C114-ST



For regulators and filter-regulators (G1/4 - G1/8)

The kit is supplied with:
1x zinc-plated steel bracket.



Mod.
C114-ST

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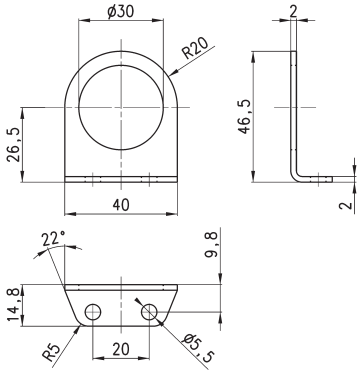
Mounting bracket Mod. C114-ST/1

For regulators and filter-regulators
(G1/4 - G1/8)

The kit is supplied with 1 zinc-plated steel bracket.

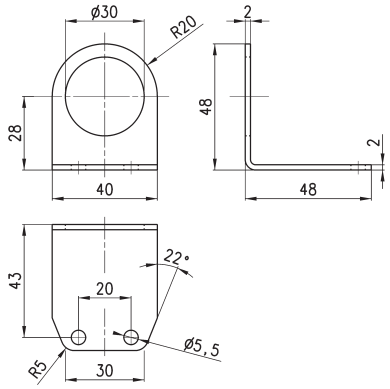


Mod.
C114-ST/1

Mounting bracket Mod. C114-ST/2

For regulators and filter-regulators
(G1/4 - G1/8)

The kit is supplied with 1 zinc-plated steel bracket.



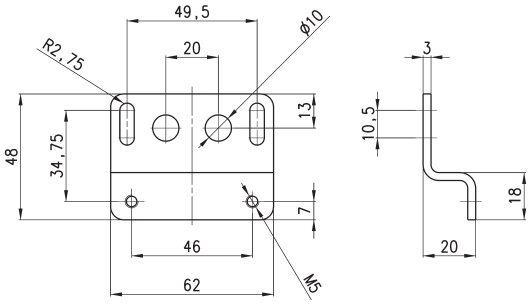
Mod.
C114-ST/2

Mounting bracket Mod. C238-ST/1

for MC238 and MC202

The kit is supplied with:
1 bracket; 2 screws M5X65

Materials: zinc-plated steel bracket and screws.



Mod.
C238-ST/1

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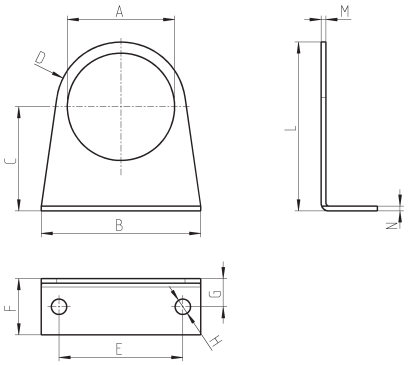
Fixing bracket Mod. MX2-S

for regulators Mod. MC238 and MC202

The kit is supplied with 1 zinc-plated steel bracket

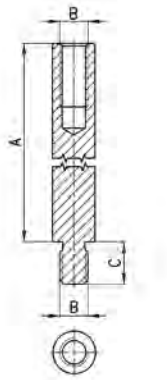


Mod.	A	B	C	D	E	F	G	H	L	M	N
MX2-S	Ø 47,2	73	60,5	R29,5	54	25	15	Ø 6,2	90	2,5	2,5

Tie-rods for assembling (kit C)

The kit MC1-TMF is supplied with:
2 male/female tie-rods; 1 O-ring 2068.
The kit MC2-TMF is supplied with:
2 male/female tie-rods; 1 O-ring 3100.

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



DIMENSIONS

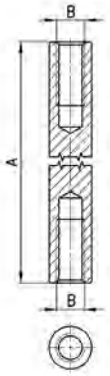
Mod.	A	B	SW	size
MC1-TMF	45	M4	6	1
MC2-TMF	62	M5	6	2

Tie-rods for assembling (kit D)

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

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

Materials: nickel-plated steel tie-rods.



DIMENSIONS

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

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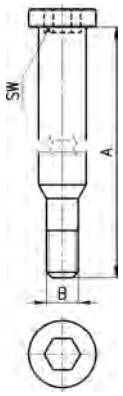
Screws for assembling (kit E)

The kit MC1-VM is supplied with:
2 male screws; 1 O-ring 2068.
The kit MC2-VM is supplied with:
2 male screws; 1 O-ring 3100

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

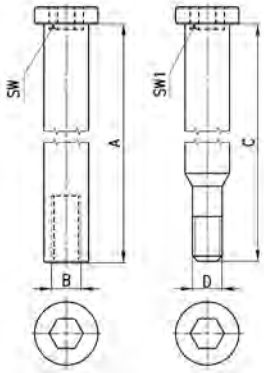


Mod.	A	B	SW	size
MC1-VM	48,5	M4	4	1
MC2-VM	65,5	M5	4	2

Screws for assembling (kit F)

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

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

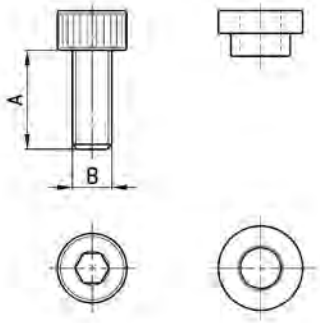


DIMENSIONS							
Mod.	A	B	C	D	SW	SW1	size
MC1-VMF	48,5	M4	42,5	M4	4	4	1
MC2-VMF	65,5	M5	59,5	M5	4	4	2

Screws (kit G) to assemble 2 bodies type “M”

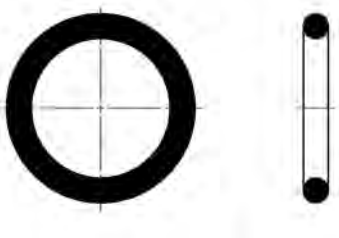
The kit MC1-VMD is supplied with:
4 screws M4X10; 4 spacers; 2 O-ring 2068.
The kit MC2-VMD is supplied with:
4 screws M5X12; 4 spacers; 2 O-ring 3100.

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



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

O-ring for assembling



Mod.	O-ring	For assembly	
458-33/1	OR 2068	MC104	
80-26-11/4T	OR 3100	MC238, MC202	*

* spare parts only

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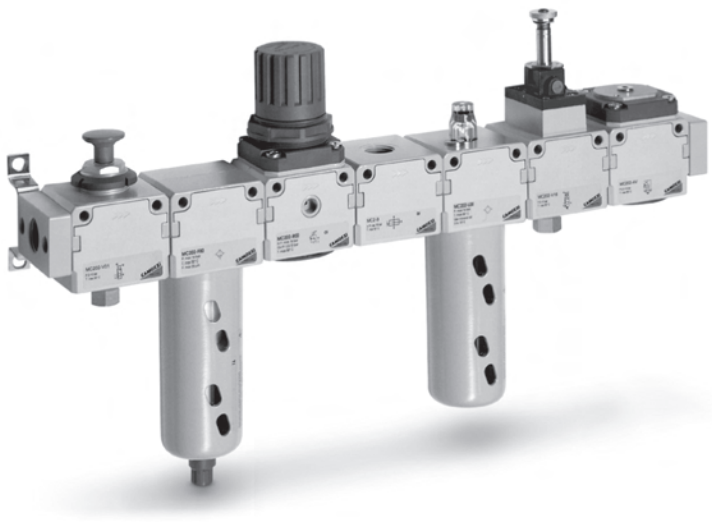
Series MC assembled FRL

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	enamelled
Flow	determined at 6 bar inlet supply with ΔP 1 bar (ΔP 0,5 only for FRL)

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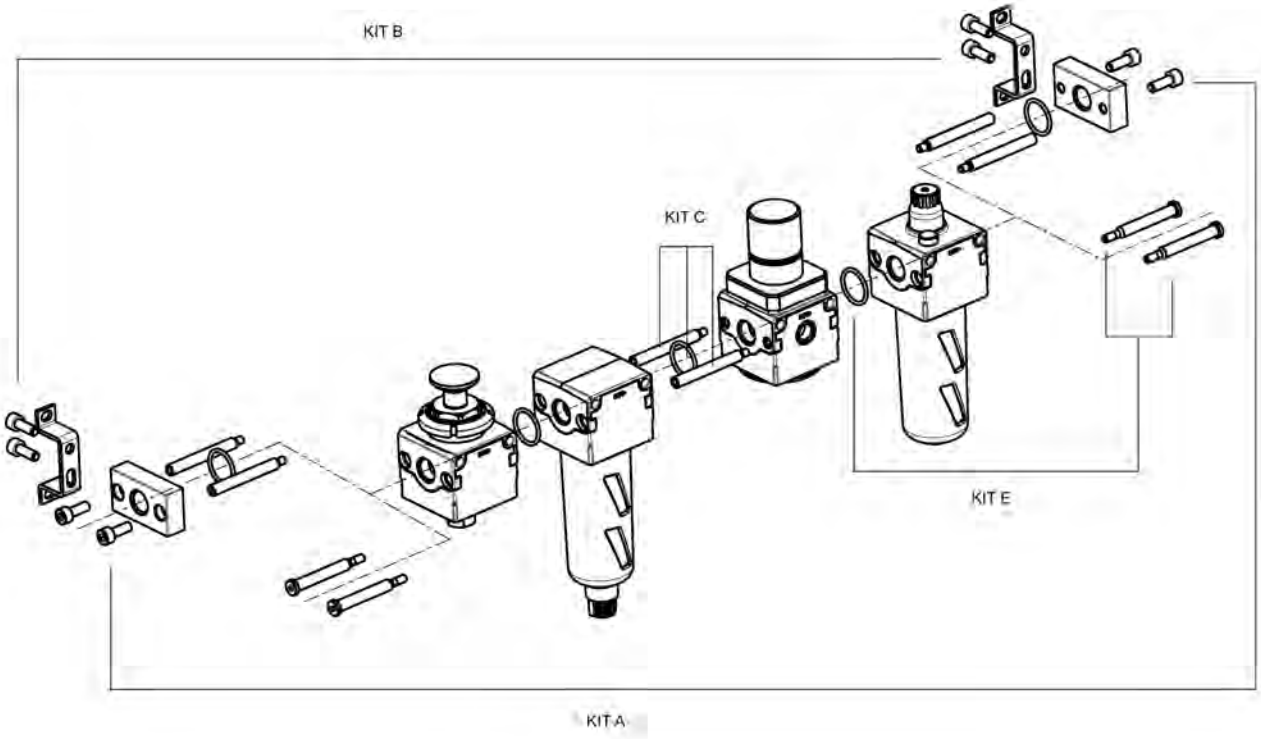
COMPOSITION OF THE KITS

- 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 MC Accessories in the section 3/2.44.



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”.

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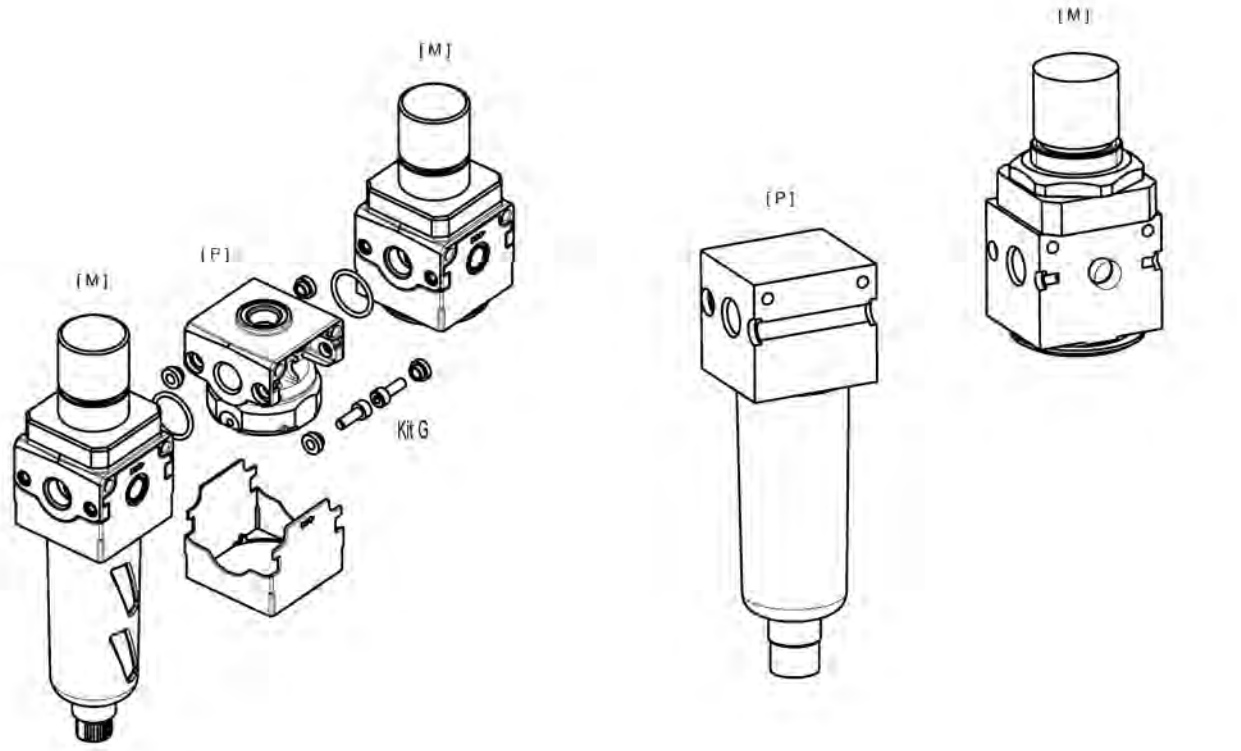
ASSEMBLY EXAMPLE WITH AND WITHOUT TERMINAL FLANGES

- 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 E + 2 Kit C	1 Kit A + 4 Kit C

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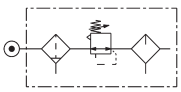
CODING EXAMPLE

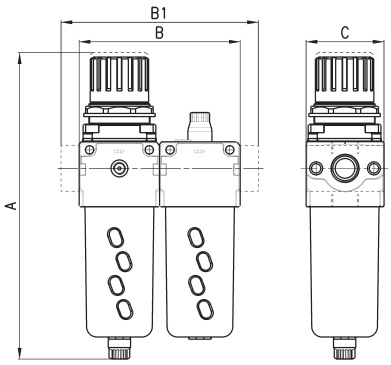
MC	2	02	-	C	-	5	-	FL

MC	MC = SERIES
2	SIZE 1 = G1/4 2 = G3/8 - G1/2
02	PORT 04 = G1/4 38 = G3/8 02 = G1/2
C	ASSEMBLY GROUP C = 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 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
5	FILTERING ELEMENT 5 = 5 µm (standard) 25 = 25 µm (upon request)
FL	VERSION FL = with terminal flanges (without brackets)
	LEGEND: D = Filter-regulator 0.5-10 bar, semi-automatic-manual drain with relieving, filtering element 5 µm or 25 µm L = Lubricator 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



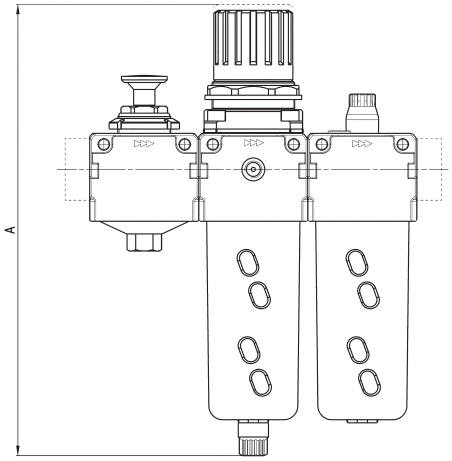


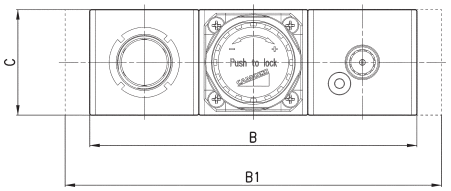
DIMENSIONS

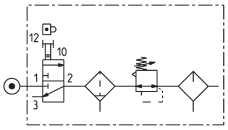
Mod.	A	B	B1	C	Flow rate (Nl/min)
MC104-C-5	193,5	90	-	45	1450
MC238-C-5	256,5	124	-	60	4800
MC202-C-5	256,5	124	-	60	4900
MC104-C-5-FL	193,5	-	114	45	1450
MC238-C-5-FL	256,5	-	152	60	4800
MC202-C-5-FL	256,5	-	152	60	4900

Assembly group E

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





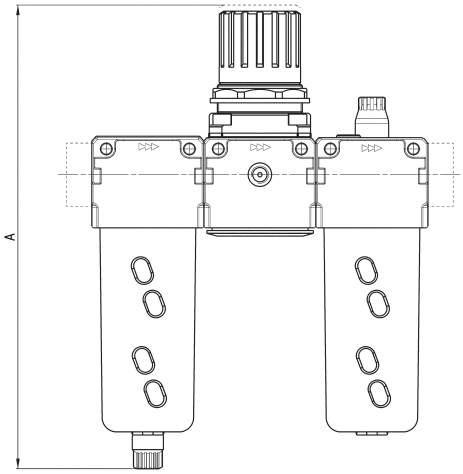


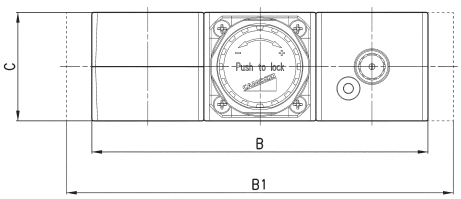
DIMENSIONS

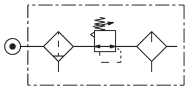
Mod.	A	B	B1	C	Flow rate (Nl/min)
MC104-E-5	193,5	135	-	45	1450
MC238-E-5	256,5	186	-	60	4800
MC202-E-5	256,5	186	-	60	4950
MC104-E-5-FL	193,5	-	159	45	1450
MC238-E-5-FL	256,5	-	214	60	4800
MC202-E-5-FL	256,5	-	214	60	4950

Assembly group FRL

Components:
Filter
Regulator
Lubricator







DIMENSIONS

Mod.	A	B	B1	C	Flow rate (Nl/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

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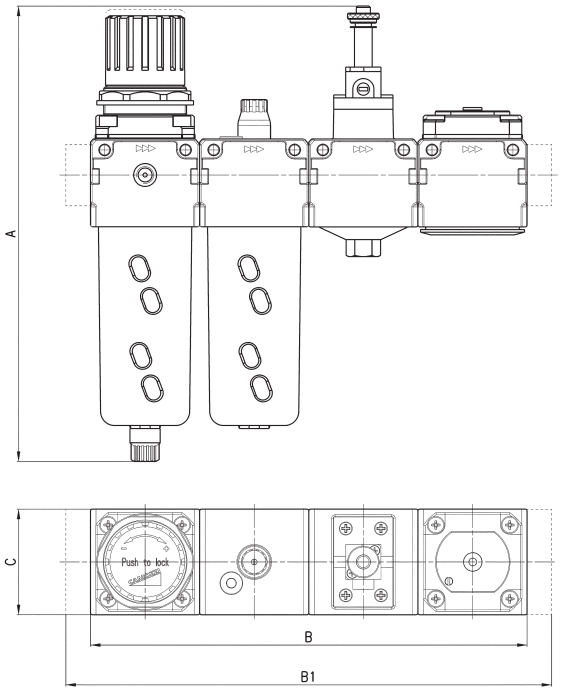
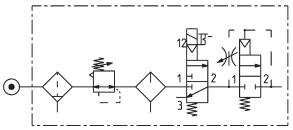
Assembly group GN

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

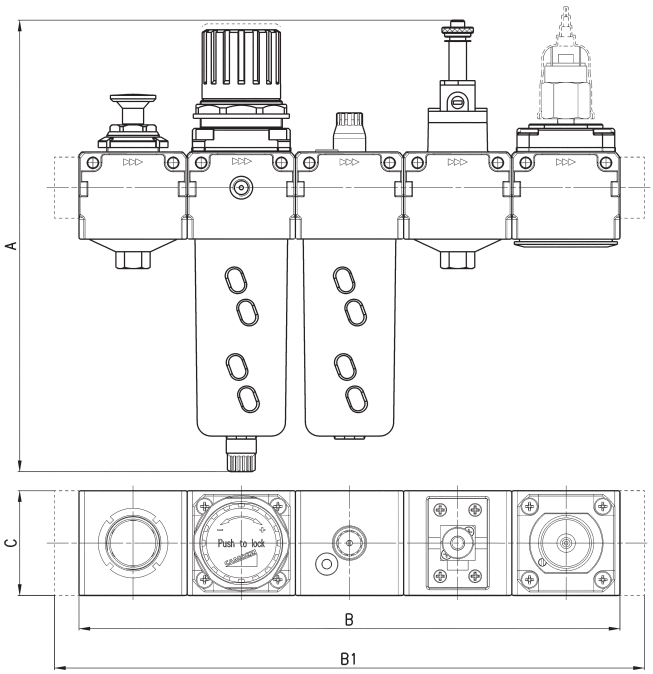


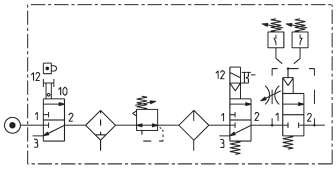


DIMENSIONS					
Mod.	A	B	B1	C	Flow rate (Nl/min)
MC104-GN-5	208	180	-	45	1450
MC238-GN-5	259	248	-	60	4800
MC202-GN-5	259	248	-	60	4900
MC104-GN-5-FL	208	-	204	45	1450
MC238-GN-5-FL	259	-	276	60	4800
MC202-GN-5-FL	259	-	276	60	4950

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.	A	B	B1	C	Flow rate (Nl/min)
MC104-HN...-5	208	225	-	45	1450
MC238-HN...-5	259	310	-	60	4800
MC202-HN...-5	259	310	-	60	4950
MC104-HN...-5-FL	208	-	249	45	1450
MC238-HN...-5-FL	259	-	338	60	4800
MC202-HN...-5-FL	259	-	338	60	4950

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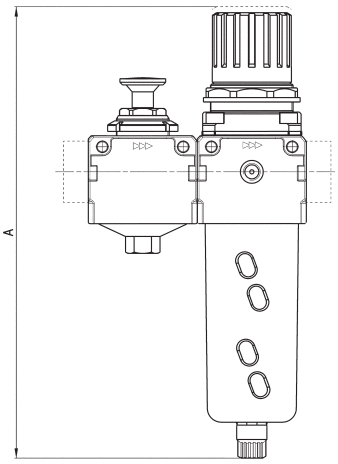
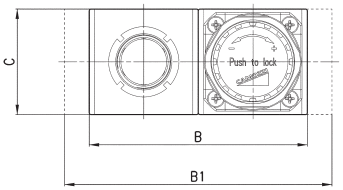
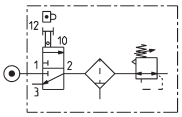
Assembly group N

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



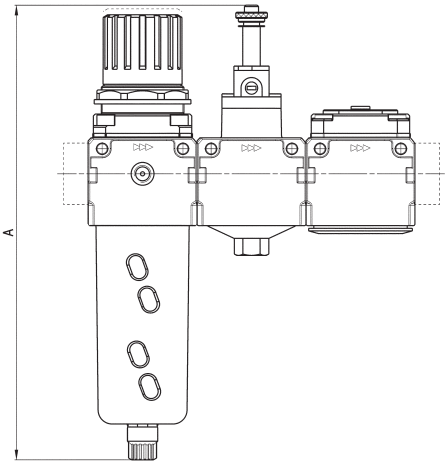


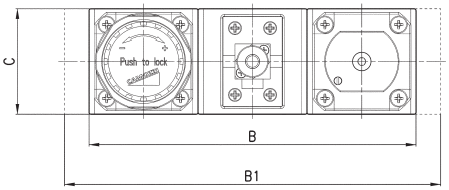


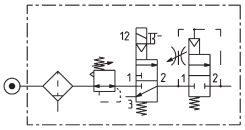
DIMENSIONS					
Mod.	A	B	B1	C	Flow rate (Nl/min)
MC104-N-5	193,5	90	-	45	1450
MC238-N-5	256,5	124	-	60	4800
MC202-N-5	256,5	124	-	60	4950
MC104-N-5-FL	193,5	-	114	45	1450
MC238-N-5-FL	256,5	-	152	60	4800
MC202-N-5-FL	256,5	-	152	60	4950

Assembly group PN

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







DIMENSIONS					
Mod.	A	B	B1	C	Flow rate (Nl/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

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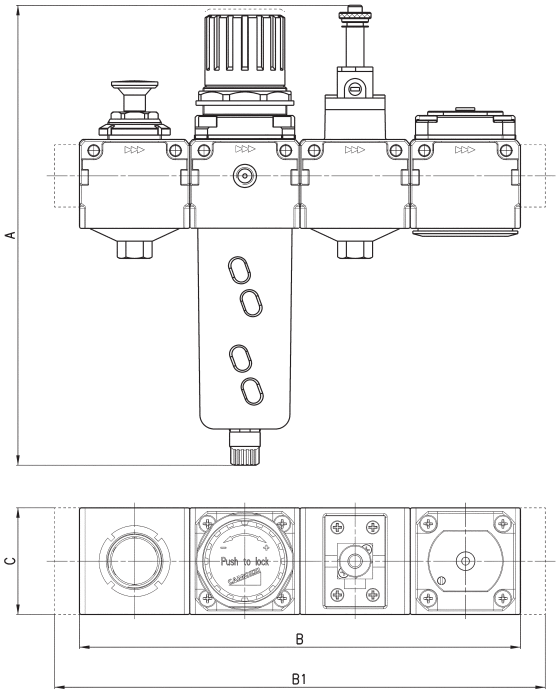
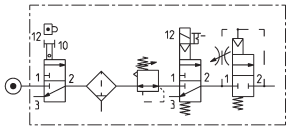
Assembly group QN

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



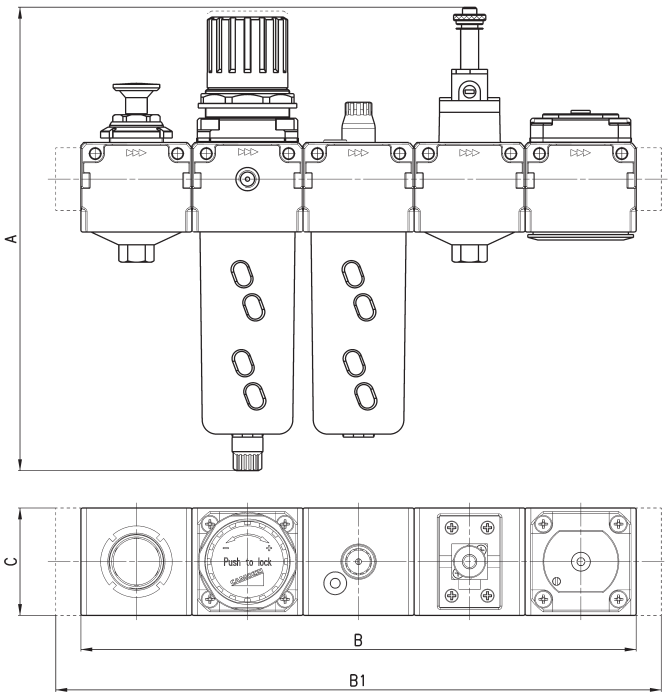


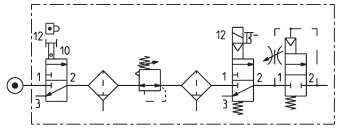
DIMENSIONS

Mod.	A	B	B1	C	Flow rate (Nl/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.	A	B	B1	C	Flow rate (Nl/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

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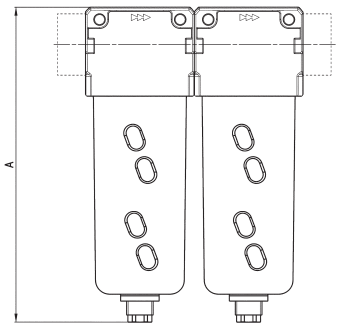
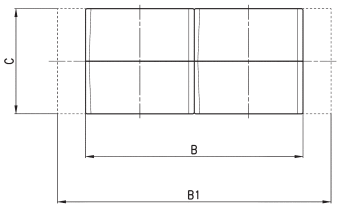
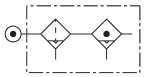
Assembly group U

Components:
Filter
Coalescing filter





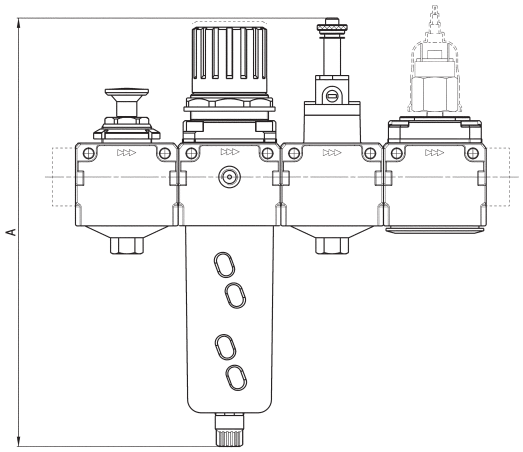


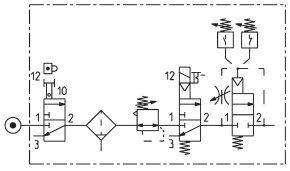
DIMENSIONS

Mod.	A	B	B1	C	Flow rate (Nl/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)





DIMENSIONS

Mod.	A	B	B1	C	Flow rate (Nl/min)
MC104-ZN...-5	208	180	-	45	1450
MC238-ZN...-5	259	248	-	60	4800
MC202-ZN...-5	259	248	-	60	4950
MC104-ZN...-5-FL	208	-	204	45	1450
MC238-ZN...-5-FL	259	-	276	60	4800
MC202-ZN...-5-FL	259	-	276	60	4950

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

Series MC
manifold pressure regulators

Ports G1/4
Modular

The manifold pressure regulators with ports G1/4 are available with a second pressure relieving and can be in-line or panel mounted.

GENERAL DATA

Construction	compact modular, diaphragm type
Materials	zama, NBR, technopolymer
Port	G1/4
Weight	kg 0,320
Pressure gauge ports / outlet	G1/8
Mounting	in-line, wall or panel mounting (in any position)
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Finishing	enamelled
Inlet pressure	0 ÷ 16 bar
Outlet pressure	0.5 ÷ 10 bar or 0 ÷ 4 bar
Flow	see graph
Secondary pressure relieving	standard

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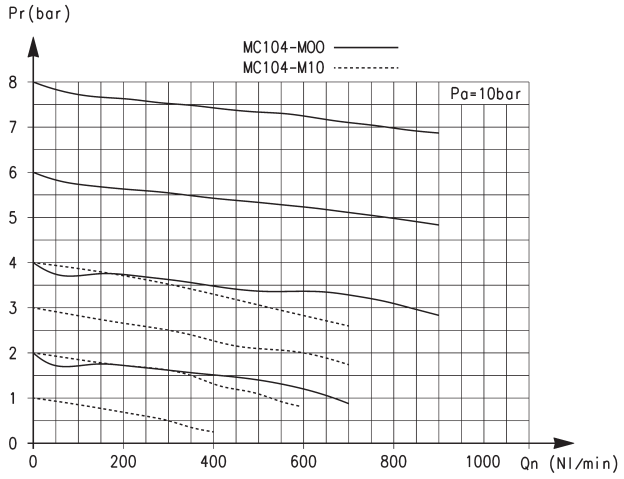
CODING EXAMPLE

MC	1	04	-	M	0	0

MC	SERIES
1	SIZE: 1 = G1/4
04	PORT: 04 = G1/4
M	MANIFOLD REGULATOR
0	OPERATING PRESSURE: 0 = 0,5 ÷ 10 (standard) 1 = 0 ÷ 4 2 = 0,5 ÷ 2 7 = 0,5 ÷ 7
0	CONSTRUCTION: 0 = self-relieving (standard) 1 = non-relieving 5 = precise relieving

FLOW DIAGRAM



Flow diagram for model: MC104-M00
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

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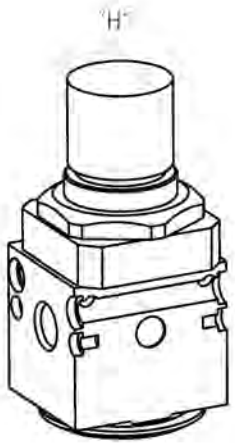
Assembly

EXAMPLE BODY TYPE [H] :
Manifold regulator with through holes on top (used to mount the manifold regulators to each other).

N.B.: Once a group of manifolds has been assembled, it can be inserted in a FRL group. In this case the manifold regulator assembly alone would be defined as body type M.



Assembly kits

- Kit A: 1 right flange + 1 left flange + 4 screws + 2 O-ring.

- Kit B: 2 brackets + 4 screws.

- Kit C: 2 tie rods male-female + 1 O-ring.

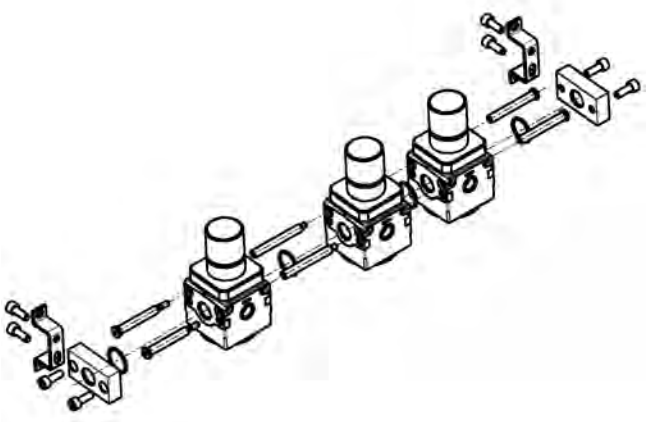
- Kit D: 2 tie rods female-female.

- Kit E: 2 male screws + 1 O-ring.

- Kit F: 2 male screws + 2 female screws + 1 O-ring.

- Kit G: 4 screws + 4 spacers + 2 O-ring, to be used on a body type “P” positioned between two body types “M”.

N.B. for configurations which differ from the ones described, you can only add only bodies type “H” and for every part added you should add a Kit “C”.



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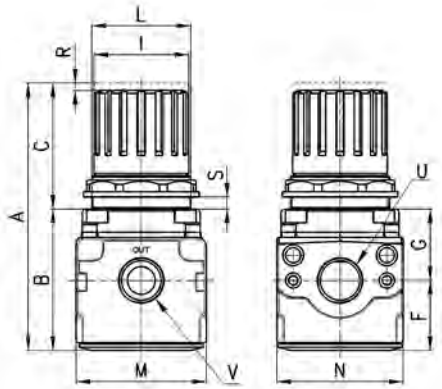
Manifold pressure regulators Series MC



FR19 = Manifold regulator with relieving without pressure gauge

FR21 = Manifold regulator without relieving and without pressure gauge

DIMENSIONS

Mod.	A	B	C	F	G	I	L	M	N	R	S	U	V
MC104-M00	94	55	39	28	28	28	30X1,5	45	45	3	0 ÷ 6	G1/4	G1/8

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General terms and conditions for sale are available on www.camozzi.com.

Series CLR micro pressure regulators

Ports G1/4, G1/8
With banjo stem with or without relieving
Available with or without banjo in technopolymer

- Extremely lightweight
- Compact
- In-line or console mounting

Series CLR micro pressure regulators are available with G1/8 and G1/4 connections. A piston with or without relieving and VS function (valve with fast draining) has been incorporated into its design.
The body is in brass, while the connection fitting is in technopolymer which guarantees maximum lightness. They can be supplied with or without banjo and can be console mounted.

With a threaded top part of the body both direct mounting to a valve outlet (1/8 and 1/4 threads) and console mounting are easily facilitated.
The pressure is precisely regulated simply by turning the polymer knob with a locking nut available to set the desired output.

GENERAL DATA

Construction	piston
Materials	brass body, technopolymer banjo, stainless steel spring; NBR O-ring
Ports	G1/8 - G1/4
Weight	Kg 0,035
Mounting	in-line or panel mounting (in any position)
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Inlet pressure	2 ÷ 10 bar
Outlet pressure	0,5 ÷ 10 bar
Nominal flow	see graphs
Secondary pressure relieving	standard (all regulators are provided with high relief flow VS function)

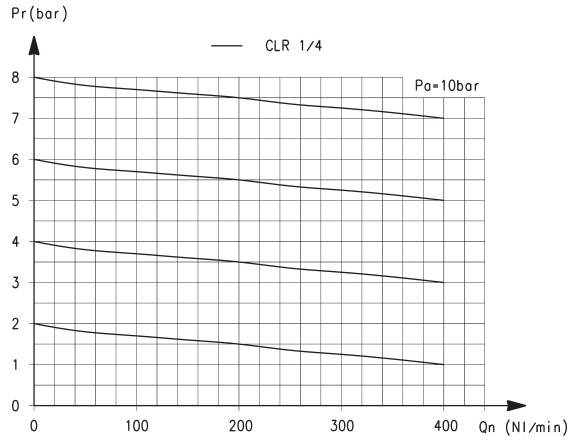
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

CODING EXAMPLE

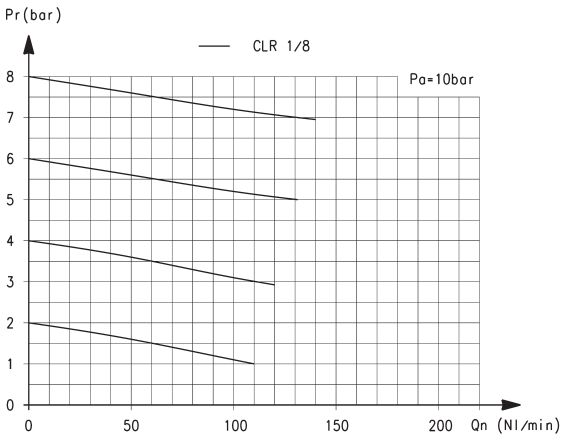
CL	R		1/8	-	01	-	4

CL	SERIES
R	R = REGULATOR
1/8	PORTS: 1/8 = G1/8 1/4 = G1/4
	DESIGN TYPE: = with relieving 01 = without relieving
4	TUBE: = without banjo 4 = Ø4 mm (G1/8 only) 6 = Ø6 mm 8 = Ø8 mm

FLOW DIAGRAMS at 6 bar with ΔP1



Pa = Inlet pressure - Pr = Regulated pressure
Qn = Flow
CLR 1/4-6 = 209 Nl/min
CLR 1/4-8 = 310 Nl/min



Pa = Inlet pressure - Pr = Regulated pressure
Qn = Flow
CLR 1/8-4 = 90 Nl/min; CLR 1/8-6 = 120 Nl/min - CLR 1/8-8 = 120 Nl/min

Products designed for industrial applications.
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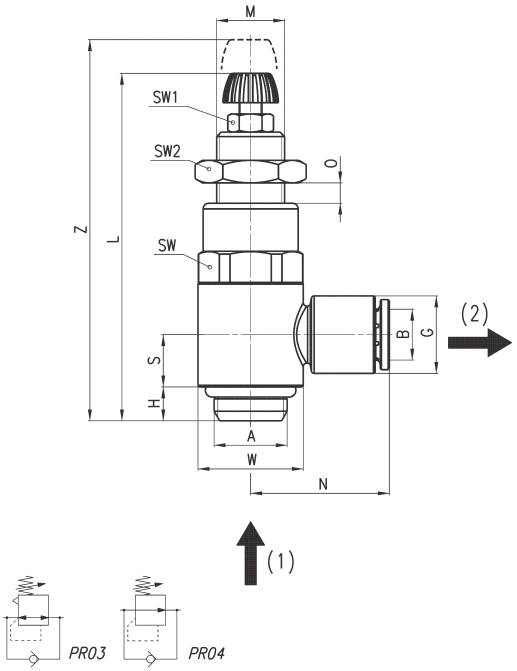
Series CLR Micro pressure regulators with banjo

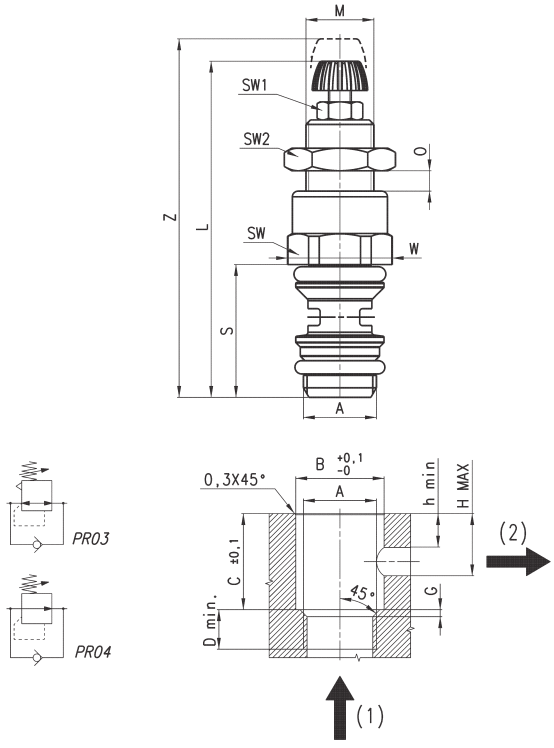


Mod.	A	B	G	H	L	M	N	O	S	W	SW	SW1	SW2	Z
CLR 1/8-4	G1/8	4	11,6	5	52	M11x1	21	0÷6,5	7,75	14	14	7	14	59
CLR 1/8-6	G1/8	6	11,6	5	52	M11x1	21	0÷6,5	7,75	14	14	7	14	59
CLR 1/8-8	G1/8	8	13,9	5	52	M11x1	22,5	0÷6,5	7,75	14	14	7	14	59
CLR 1/4-6	G1/4	6	13,9	6	59,5	M12x1	24,5	0÷8	9,25	18,6	17	7	17	68
CLR 1/4-8	G1/4	8	13,9	6	59,5	M12x1	24,5	0÷8	9,25	18,6	17	7	17	68

DRAWING NOTE
(1) = inlet pressure
(2) = regulated pressure

PR03 = Regulator with relieving and by-pass valve
PR04 = Regulator without relieving and with by-pass valve

Series CLR Micro pressure regulators without banjo



DIMENSIONS

Mod.	A	B	C	D min	G	h min	H MAX	L	M	O	S	W	SW	SW1	SW2	Z
CLR 1/8	G1/8	11	15.5	6	1	5.5	10	52	M11x1	0÷6.5	20.5	15.2	14	7	14	59
CLR 1/4	G1/4	15.65	18.5	7	1.25	7	12	59.5	M12x1	0÷8	24.5	18.5	17	7	17	68

DRAWING NOTE
(1) = inlet pressure
(2) = regulated pressure

PR03 = Regulator with relieving and by-pass valve
PR04 = Regulator without relieving and with by-pass valve

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

Series M pressure microregulators

Ports G1/8, G1/4

» Versions with calibrated or blocked regulators are available on request

» Versions with certified diaphragms and seals materials are available on request

Series M pressure regulator is available with G1/8 and G1/4 ports. Its design incorporates a diaphragm and relieving so as to allow decremental adjustments as well.
Microregulators are available with different regulation types: non-relieving, very sensitive self-relieving (through a light air leak) and VS (valve with fast draining).

The VS version is used when a regulator should be inserted between the valve and cylinder, or capacity, without any negative influence on the exhaust.

GENERAL DATA

Construction	diaphragm type
Materials	brass body, stainless steel spring, NBR O-ring
Ports	G1/8 - G1/4
Weight	Kg 0.235
Pressure gauge ports	G1/8
Mounting	in-line or panel mounting (in any position)
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Inlet pressure	0 ÷ 16 bar
Outlet pressure	0.5 ÷ 10 bar
Nominal flow	see graphs
Secondary pressure relieving	standard

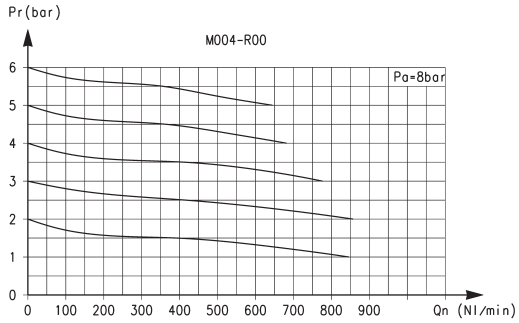
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

CODING EXAMPLE

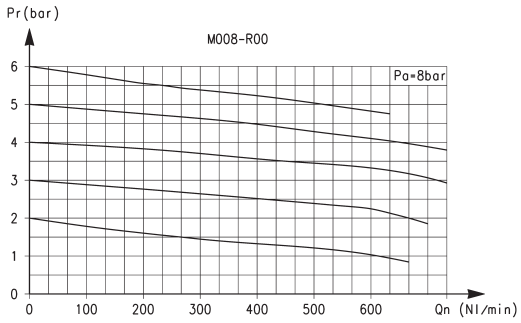
M	0	04	-	R	0	0	

M	SERIES
0	SIZE: 0
04	PORTS: 08 = G1/8 04 = G1/4
R	R = REGULATOR
0	OPERATING PRESSURE: 0 = 0,5 ÷ 10 (standard) 1 = 0 ÷ 4 2 = 0 ÷ 2 7 = 0,5 ÷ 7
0	DESIGN TYPE: 0 = self relieving 1 = non relieving 5 = precise setting
	REGULATION TYPE: = without high relief flow (standard) VS = high relief flow

FLOW DIAGRAMS



Flow diagram for models: M004-R00
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow



Flow diagram for models: M008-R00
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

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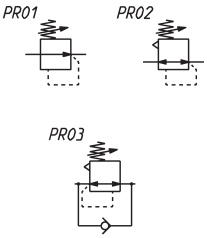
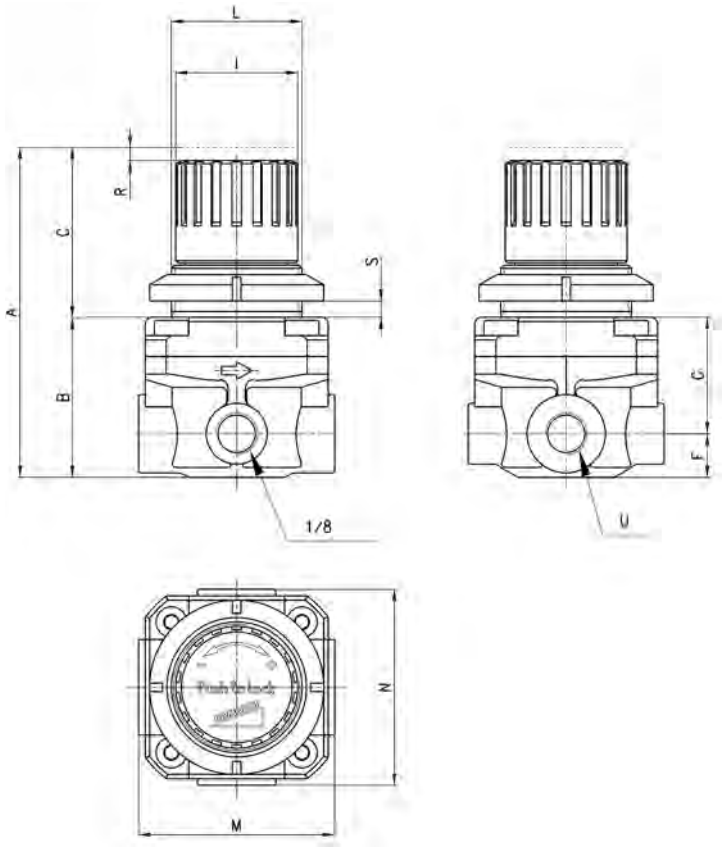
Series M pressure microregulator



PR01 = regulator without relieving

PR02 = regulator with relieving

PR03 = regulator with relieving and by-pass valve



DIMENSIONS

Mod.	A	B	C	F	G	I	L	M	N	R	S	U	
M008-R00	76	37	39	10	27	28	M30x1,5	45	45	3	0 ÷ 6	G1/8	*
M004-R00	76	37	39	10	27	28	M30x1,5	45	45	3	0 ÷ 6	G1/4	*

* = calibrated or blocked regulator available on request

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

Series T pressure microregulators

Ports G1/8 and G1/4

- Extremely lightweight
- Compact
- In-line or console mounting

Series T pressure regulators are available with G1/8 and G1/4 brass connections.
A self-relieving piston has been incorporated into the design to allow decreasing adjustments.
Non-relieving versions are also available.

All models are equipped with a valve enabling fast draining (VS) which is useful when a regulator should be inserted between the valve and cylinder (or capacity) without any negative influence on the exhaust.

GENERAL DATA

Construction	piston
Materials	technopolymer body and piston, stainless steel spring, brass inserts, NBR O-ring and poppet
Ports	G1/8 - G1/4
Weight	g 95
Pressure gauge ports	G1/8
Mounting	in-line or panel mounting (in any position)
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Inlet pressure	0 ÷ 12 bar
Outlet pressure	0, 5 ÷ 10 bar
Nominal flow	see graphs
Secondary pressure relieving	standard
Type of fluid	air and water. Special versions for other types of gas are available upon request.

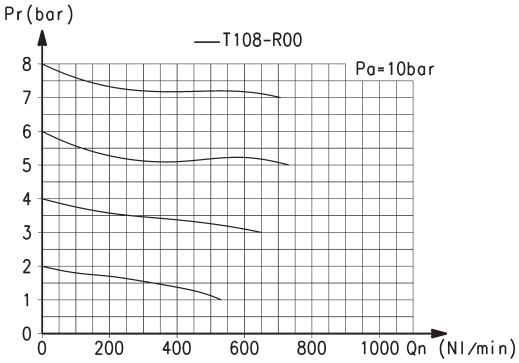
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

CODING EXAMPLE

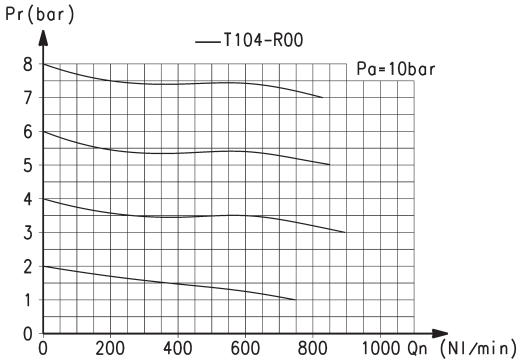
T	1	08	-	R	0	0

T	SERIES
1	SIZE
08	PORTS: 08 = G1/8 04 = G1/4
R	REGULATOR
0	OPERATING PRESSURE: 0 = 0,5 ÷ 10 1 = 0 ÷ 4 2 = 0 ÷ 2 7 = 0 ÷ 7 (standard)
0	DESIGN TYPE: 0 = self-relieving 1 = non relieving

FLOW DIAGRAMS

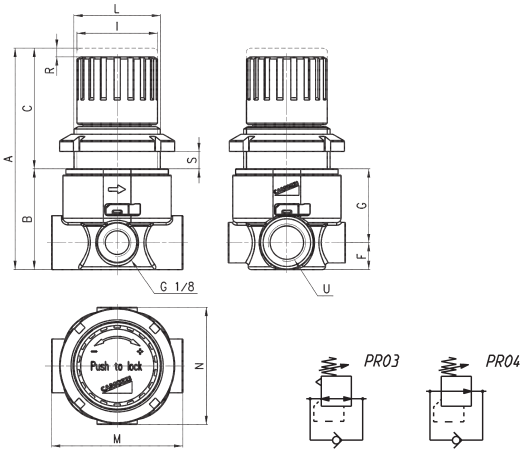


Flow diagram for model: T108-R00
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow



Flow diagram for model: T104-R00
Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

Series T pressure microregulator



DIMENSIONS

Mod.	A	B	C	F	G	I	L	M	N	R	S	U
T108-R00	77	35	42	9.5	25.5	28	M30X1.5	46	41	3	7	G1/8
T104-R00	77	35	42	9.5	25.5	28	M30X1.5	46	41	3	7	G1/4

PR03 = regulator with relieving and by-pass valve

PR04 = regulator without relieving and with by-pass valve

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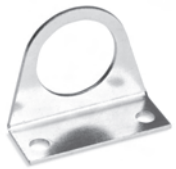
ACCESSORIES FOR SERIES M AND T MICROREGULATORS



Mounting bracket
Mod. C114-ST

Mounting bracket
Mod. C114-ST/1

Mounting bracket
Mod. C114-ST/2

Systems of rapid connections designed to make mounting easier.

Products designed for industrial applications.
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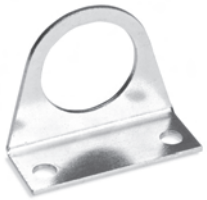
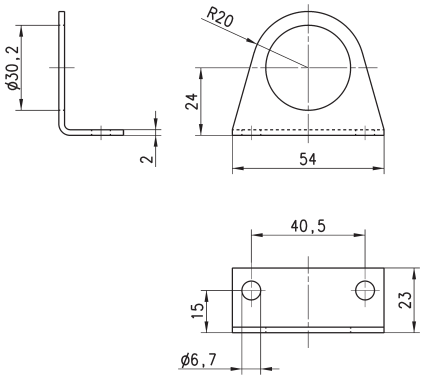
Mounting bracket Mod. C114-ST



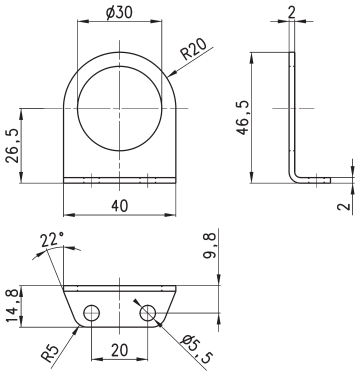
The kit is supplied with:
1x zinc-plated steel bracket.



Mod.
C114-ST

Mounting bracket Mod. C114-ST/1

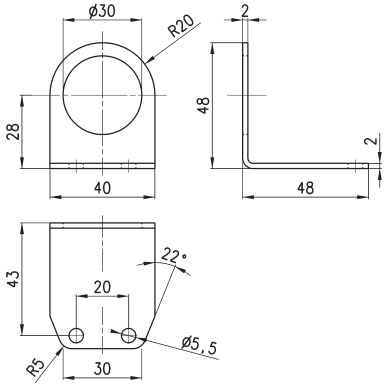
The kit is supplied with 1 zinc-plated steel bracket.



Mod.
C114-ST/1

Mounting bracket Mod. C114-ST/2

The kit is supplied with 1 zinc-plated steel bracket.



Mod.
C114-ST/2

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Series PR precision regulators with manual override

New

Ports: G1/4

- High precision
- Triple diaphragm construction
- Compact dimensions
- Adjustment lock
- Removable adjustment knob
- Three ranges of pressure

Series PR precision pressure regulators work on a three diaphragms force-balance principle which allows them to react even to the smallest changes in pressure that can occur during operation.

GENERAL DATA

Construction	compact, diaphragm type
Materials	see the following page
Ports	G1/4
Mounting	vertical in-line, wall or panel mounting (in any position)
Working temperature	from 0°C to 50°C
Inlet pressure	0.1 ÷ 9 bar
Outlet pressure	0.05 ÷ 2 bar 0.05 ÷ 4 bar 0.05 ÷ 7 bar (standard)
Overpressure exhaust	with relieving (standard)
Nominal flow	see flow diagrams (following pages)
Media	filtered and not lubricated compressed air according to DIN ISO 8573-1 Classes 1-3-2
Hysteresis	20mbar
Repeatability	±0.2% FS
Bleed air consumption	≤ 5 l/min

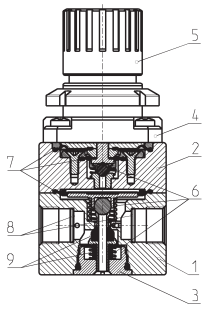
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

CODING EXAMPLE

PR	1	04	-	M	07

PR	SERIES
1	SIZE: 1 = Size 1
04	PORTS: 04 = G1/4
M	TYPE OF ADJUSTMENT: M = manual
07	OPERATING PRESSURE (1 bar = 14,5 psi): 02 = 0.05 ÷ 2 bar 04 = 0.05 ÷ 4 bar 07 = 0.05 ÷ 7 bar (standard)

Series PR precision regulators - materials



PARTS	MATERIALS
1 = Body	Anodized aluminium
2 = Intermediate body	Aluminium
3 = Valve holder plug	Brass
4 = Bell	Polyamide
5 = Regulator knob	Polyamide
6 = Springs	Stainless steel
7 = Diaphragms	NBR
8= Filters	Stainless steel
9 = Seals	NBR
O-ring	NBR

Products designed for industrial applications.
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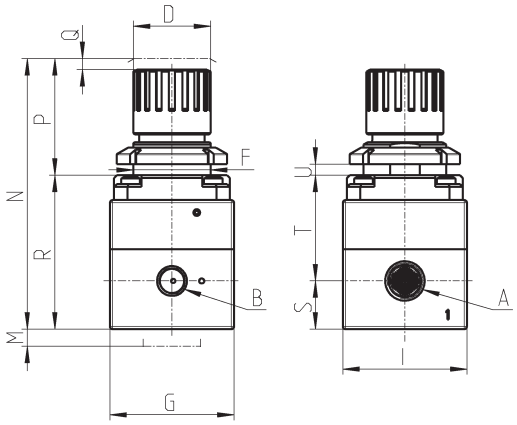
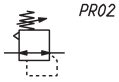
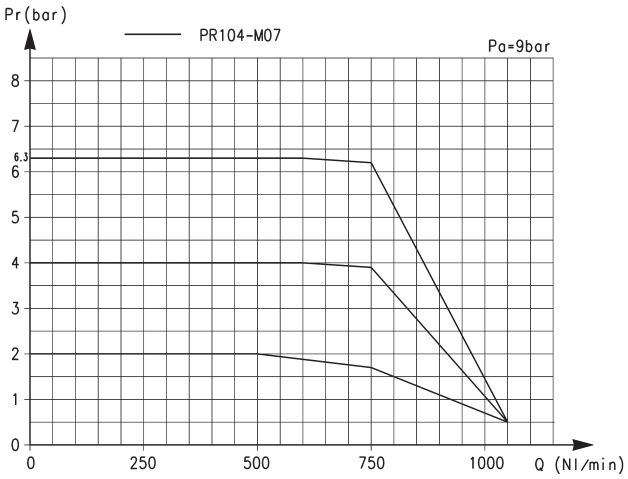
Series PR precision regulators - dimensions





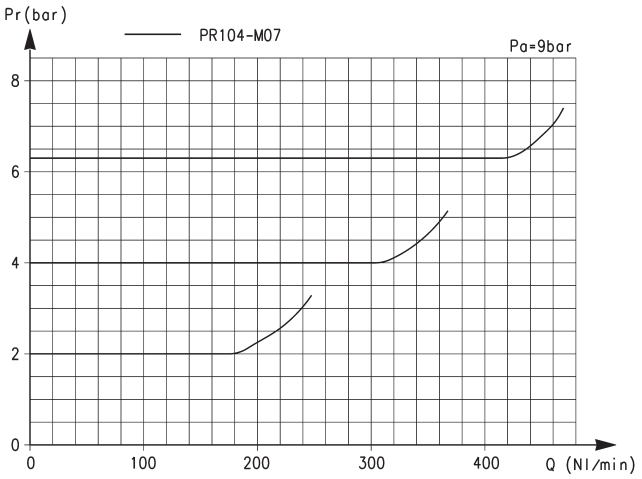
DIMENSIONS															
Mod.	A	B	D	F	G	I	M	N	P	Q	R	S	T	U	Weight (Kg)
PR104-M07	G1/4	G1/8	28	30	45	45	25	96	40	2	56	17.5	38.5	0-6	0.35

Mod. PR104-M07 FLOW DIAGRAMS (STANDARD VERSION)



Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure



EXHAUST FLOW DIAGRAM

Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

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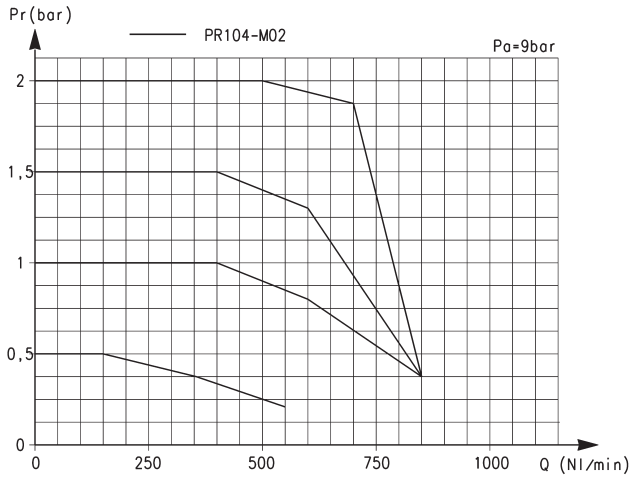
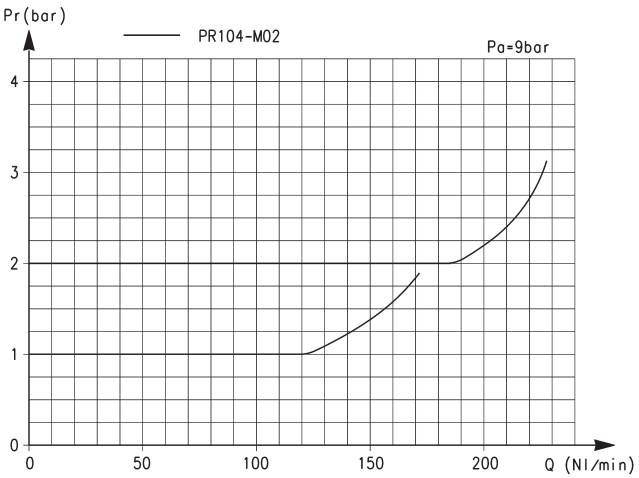
Mod. PR104-M02 FLOW DIAGRAMS





Pr = Regulated pressure
Q = Flow

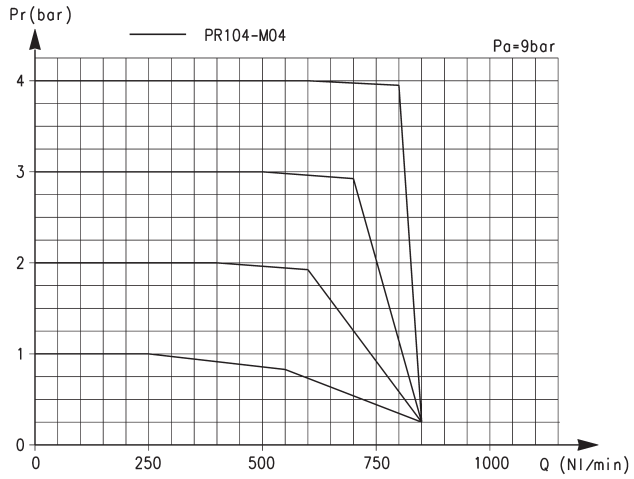
Pa = Inlet pressure

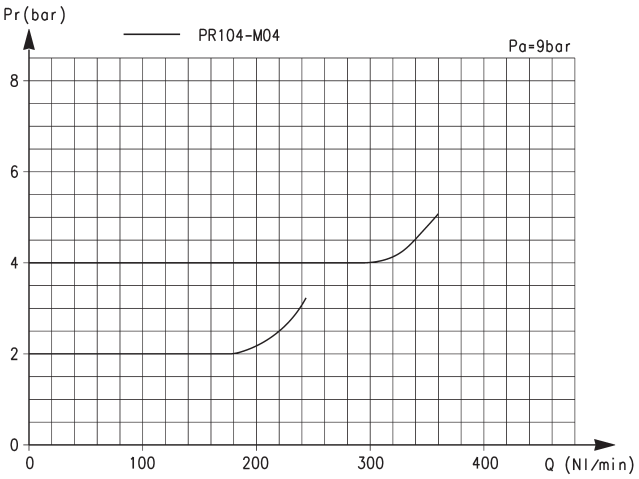
EXHAUST FLOW DIAGRAM

Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

Mod. PR104-M04 FLOW DIAGRAMS





Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

EXHAUST FLOW DIAGRAM

Pr = Regulated pressure
Q = Flow

Pa = Inlet pressure

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Series N
filters and coalescing filters

Ports G1/8, G1/4
with screw-on transparent bowl

Series N filters are available with G1/8 and G1/4 gas ports.
The transparent bowl makes the monitoring of the condensate levels very easy and is equipped with manual and semiautomatic drain.
The models are available with 3 different filtering elements: 25µm, 5µm and 0,01µm.

GENERAL DATA

Construction	HDPE filtering element
Materials	brass, grillamid, NBR
Ports	G1/8 - G1/4
Max. condensate capacity	size 1 = 11 cm³ - size 2 = 28 cm³
Weight	Kg 0.220
Mounting	vertical, inline
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)
Porosity of filtering element	25 µm (standard); 5 µm (on request); 0,01 µm
Draining of condensate	semiautomatic, manual
Operating pressure	0,3 ÷ 16 bar (with depressurisation max 10 bar)
Nominal flow	see graphs

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General terms and conditions for sale are available on www.camozzi.com.

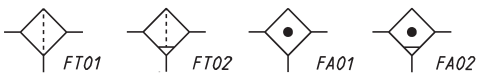
CODING EXAMPLE

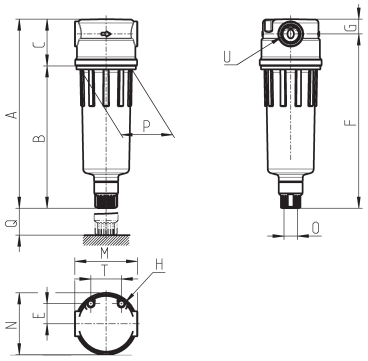
N	2	04	-	F	0	0

N	SERIES
2	SIZE: 1 = small bowl 2 = normal bowl
04	PORTS: 08 = G1/8 04 = G1/4
F	F = FILTER
0	FILTERING ELEMENT: 0 = 25µm (standard) 1 = 5µm B = 0.01µm
0	DRAINING OF CONDENSATE: 0 = manual - semiautomatic drain 4 = depressurisation - only normal bowl (2) 5 = depressurisation, protected - only normal bowl (2) 8 = no drain, port G1/8

Filters Series N

FT01 = filter without drain with threaded port
FT02 = filter with semiautomatic manual drain
FA01 = coalescing filter without drain with threaded port
FA02 = coalescing filter with semi-automatic manual drain





DIMENSIONS

Mod.	A	B	C	E	F	G	H	M	N	O	P	Q	T	U
N108-F00	111	78	33	14,5	101	10	M5	45	44,5	G1/8	38	40	22	G1/8
N104-F00	111	78	33	14,5	101	10	M5	45	44,5	G1/8	38	40	22	G1/4
N208-F00	135	102	33	14,5	125	10	M5	45	44,5	G1/8	38	40	22	G1/8
N204-F00	135	102	33	14,5	125	10	M5	45	44,5	G1/8	38	40	22	G1/4

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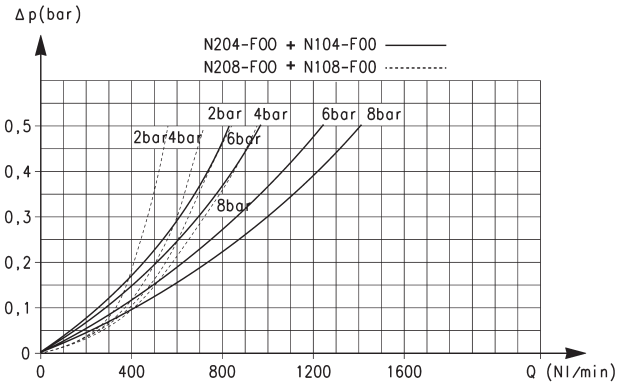
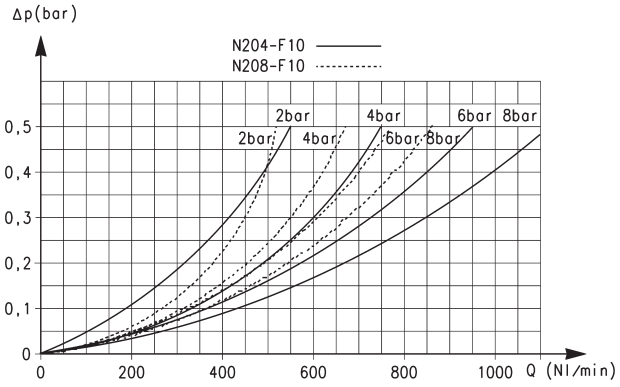
FLOW DIAGRAMS



Flow diagram for models:
N204-F00 - N104-F00 = _____
N208-F00 - N108-F00 = - - - - - - - -

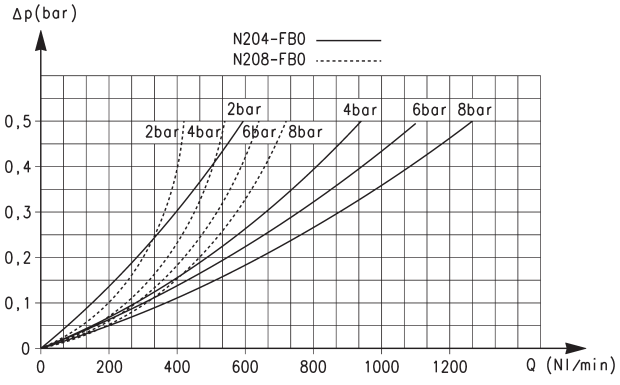
ΔP = Pressure drop
Q = Flow



Flow diagram for models:
N204-F10 = _____
N208-F10 = - - - - - - - -

ΔP = Pressure drop
Q = Flow

FLOW DIAGRAMS



Flow diagram for models:
N204-FB0 = _____
N208-FB0 = - - - - - - - -

ΔP = Pressure drop
Q = Flow

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Series N pressure regulators

Ports G1/8, G1/4

Series N pressure regulators are available with G1/4 and G1/8 ports. Their design incorporates a self relieving diaphragm so as to allow decremental adjustments.

GENERAL DATA

Construction	diaphragm type
Materials	brass, technopolymer, NBR
Ports	G1/8 - G1/4
Weight	Kg 0.316
Pressure gauge ports	G1/8
Mounting	in - line or console (in any position)
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Inlet pressure	0 ÷ 16 bar
Outlet pressure	0.5 ÷ 10 bar
Nominal flow	see graphs
Secondary pressure relieving	standard

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General terms and conditions for sale are available on www.camozzi.com.

CODING EXAMPLE

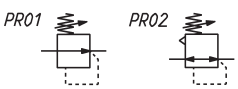
N	12	04	-	R	0	0

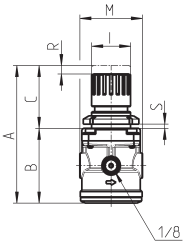
N	SERIES
12	SIZE: 12
04	PORTS: 08 = G1/8 04 = G1/4
R	R = REGULATOR
0	OPERATING PRESSURE: 0 = 0,5 ÷ 10 (standard) 1 = 0 ÷ 4 2 = 0 ÷ 2 7 = 0,5 ÷ 7
0	DESIGN TYPE: 0 = self-relieving 1 = non-relieving

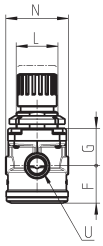
Pressure regulators Series N

Calibrated or blocked regulators on request

PR01 = regulator without relieving
PR02 = regulator with relieving







DIMENSIONS

Mod.	A	B	C	F	G	I	L	M	N	R	S	U
N1208-R00	92	53	39	26	27	28	30X1,5	45	45	3	0÷6	G1/8
N1204-R00	92	53	39	26	27	28	30X1,5	45	45	3	0÷6	G1/4

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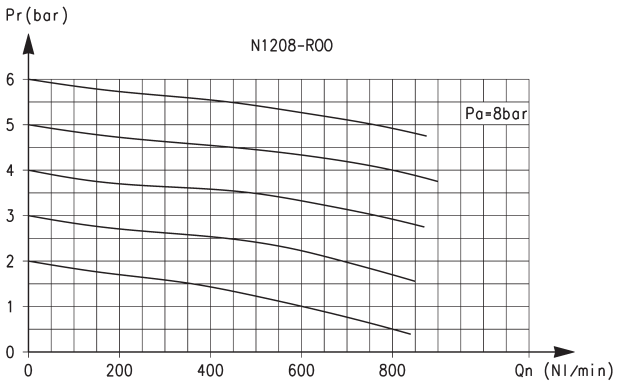
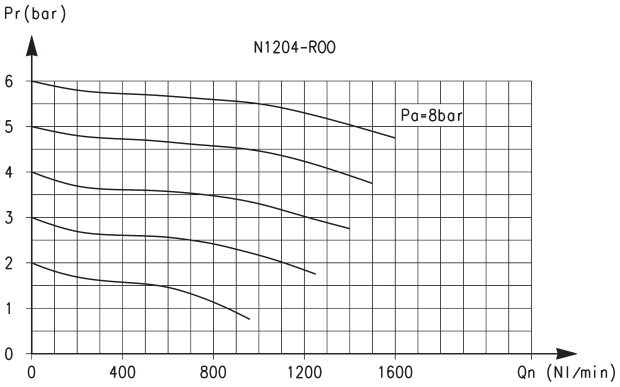
FLOW DIAGRAMS



Flow diagram for model: N208-R00

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow



Flow diagram for model: N204-R00

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

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Series N lubricators

Ports G1/8, G1/4
with screw-on transparent bowl

Series N lubricators are available with G1/4 and G1/8 ports.
The special type of design allows a vast range of applications in relation to the amount of atomized oil and the air consumed.
The body of the lubricator is made of brass, while the bowl is transparent.

GENERAL DATA

Construction	compensation valve
Materials	brass, technopolymer, NBR
Ports	G1/8 - G1/4
Oil capacity cm³	26 cm³ = size 1 - 37 cm³ = size 2
Weight	kg 0,240
Mounting	vertical, inline
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)
Oil refilling	without pressure
Oil for lubricator	from 3°E ÷ 10°E (ask our engineers for types available)
Operating pressure	1 ÷ 16 bar
Nominal flow	see graph
Min. air consumpt. for lubricat.	at 1 bar = 7,5 Nl/min - at 6 bar = 11 Nl/min

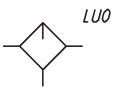
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

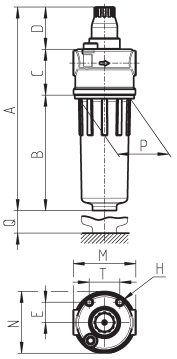
CODING EXAMPLE

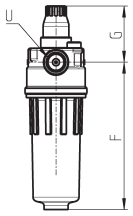
N	2	04	-	L	00

N	SERIES
2	SIZE: 1 = small bowl 2 = normal bowl
04	PORTS: 08 = G1/8 04= G1/4
L	L = LUBRICATOR
00	DESIGN TYPE: 00 = atomized oil

Lubricators Series N







DIMENSIONS

Mod.	A	B	C	D	E	F	G	H	M	N	P	Q	T	U
N108-L00	122,5	59	33	30,5	75,5	82	40,5	M5	45	44,5	38	46,5	22	G1/8
N104-L00	122,5	59	33	30,5	75,5	82	40,5	M5	45	44,5	38	46,5	22	G1/4
N208-L00	146,5	83	33	30,5	14,5	106	40,5	M5	45	44,5	38	46,5	22	G1/8
N204-L00	146,5	83	33	30,5	14,5	106	40,5	M5	45	44,5	38	46,5	22	G1/4

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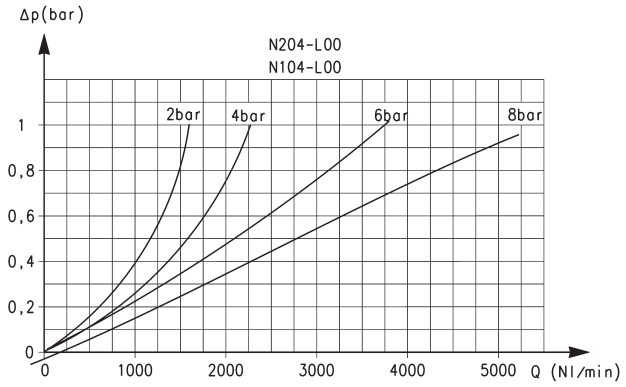
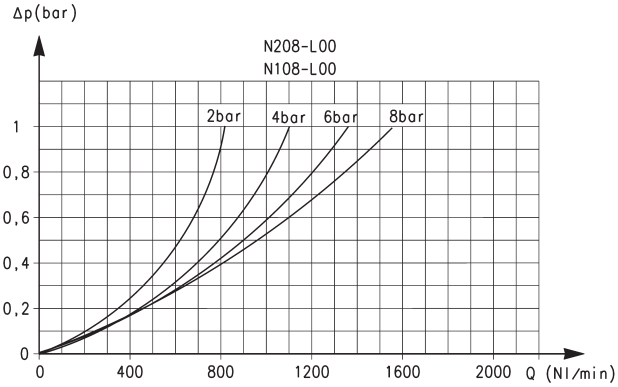
FLOW DIAGRAMS



Flow diagrams for models: N204-L00 and N104-L00

ΔP = Pressure drop
Q = Flow



Flow diagrams for models: N208-L00 and N108-L00

ΔP = Pressure drop
Q = Flow

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Series N filter-regulators

Ports G1/8, G1/4
with screw-on transparent bowl

**Series N filter-regulator is available with G1/4 and G1/8 ports.
Its design incorporates a self relieving diaphragm. The transparent filter bowl allows an easy monitoring of the condensate levels. The manual and semi-automatic drain makes both the manual and automatic condensate exhaust easier when there is no pressure.**

GENERAL DATA

Construction	HDPE filtering element
Materials	brass body and poppet - stainless steel spring - NBR O-ring - HDPE filtering element - Grilamid bowl - others: PA The version with brass bowl is available on request.
Ports	G1/8 - G1/4
Max. condensate capacity	size 1 = 11cm³ size 2 = 28 cm³
Weight	Kg 0,370
Pressure gauge ports	G1/8
Mounting	vertical, in- line
Operating temperature	-5°C ÷ 50°C a 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Porosity of filtering element	25 µm (standard) 5 µm (on request)
Draining of condensate	standard semi-automatic, manual
Inlet pressure	0 ÷ 16 bar
Outlet pressure	0,5 ÷ 10 bar
Nominal flow	see graph
Secondary pressure relieving	standard

Products designed for industrial applications.
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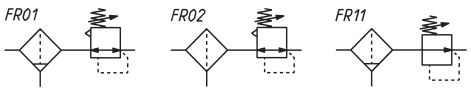
CODING EXAMPLE

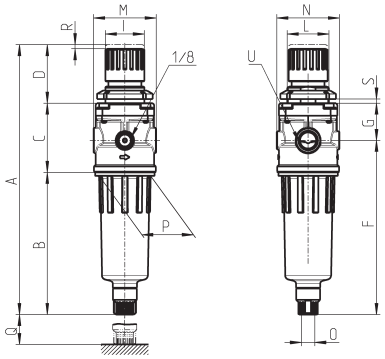
N	2	04	-	D	0	0	-	4

N	SERIES
2	SIZE: 1 = small bowl 2 = normal bowl
04	PORTS: 08 = G1/8 04= G1/4
D	D = FILTER-REGULATOR
0	FILTERING ELEMENT: 0 = 25µm (standard) 1 = 5µm
0	DRAINING OF CONDENSATE AND DESIGN TYPE: 0 = manual - semiautomatic, self-relieving draining of condensate 1 = manual - semiautomatic, non-relieving draining of condensate 4 = depressurised draining of condensate, self-relieving (with normal bowl only) 5 = depressurised, protected draining of condensate, self-relieving (with normal bowl only) 8 = no drain, with port 1/8, self-relieving
4	OPERATING PRESSURE: = 0,5 ÷ 10 bar (standard) 2 = 0 ÷ 2 bar 4 = 0 ÷ 4 bar 7 = 0,5 ÷ 7 bar

Series N filter-regulators

FR01 = filter-regulator with relieving and manual drain
FR02 = FR with relieving and without drain
FR11 = FR with manual drain and wiithout relieving





Mod.	A	B	C	D	F	G	I	L	M	N	O	P	Q	R	S	U
N108-D00	167	78	50	39	101	27	28	M30x1,5	45	45	G1/8	38	40	3	0 ÷ 6	G1/8
N104-D00	167	78	50	39	101	27	28	M30x1,5	45	45	G1/8	38	40	3	0 ÷ 6	G1/4
N208-D00	191	102	50	39	125	27	28	M30x1,5	45	45	G1/8	38	40	3	0 ÷ 6	G1/8
N204-D00	191	102	50	39	125	27	28	M30x1,5	45	45	G1/8	38	40	3	0 ÷ 6	G1/4

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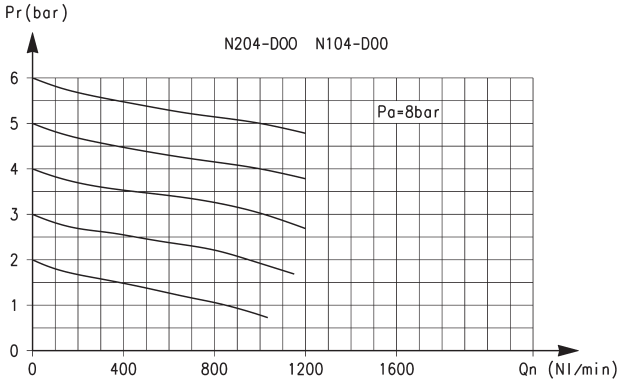
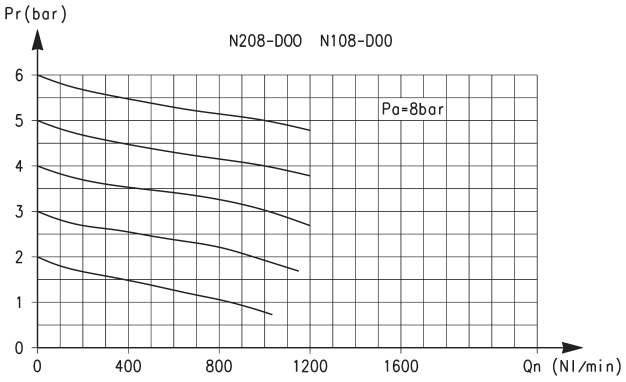
FLOW DIAGRAM



Flow diagrams for models: N204-D00 - N104-D00

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow



Flow diagrams for models: N208-D00 - N108-D00

Pa = Inlet pressure
Pr = Regulated pressure
Qn = Flow

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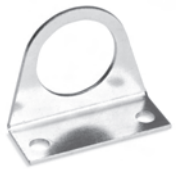
ACCESSORIES FOR SERIES N



Mounting bracket
Mod. C114-ST

Mounting bracket
Mod. C114-ST/1

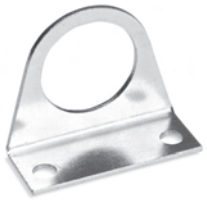
Mounting bracket
Mod. C114-ST/2

Mounting bracket
Mod. N204-ST

Systems of rapid connections designed to make mounting easier.

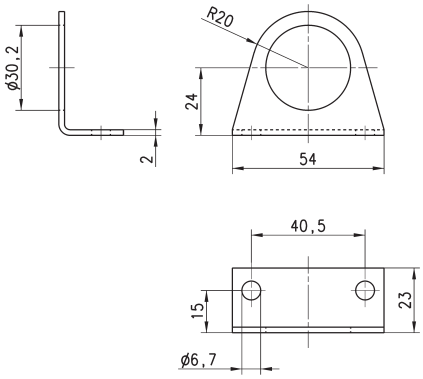
Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

Mounting bracket Mod. C114-ST



For regulators and filter-regulators (G1/4 - G1/8)

The kit is supplied with:
1x zinc-plated steel bracket.

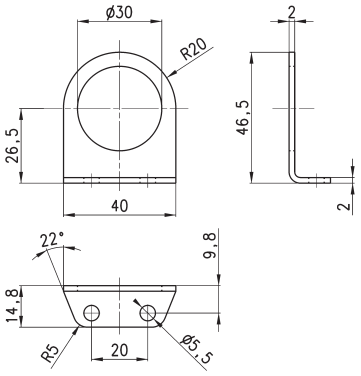


Mod.
C114-ST

Mounting bracket Mod. C114-ST/1

For regulators and filter-regulators (G1/4 - G1/8)

The kit is supplied with 1 zinc-plated steel bracket.

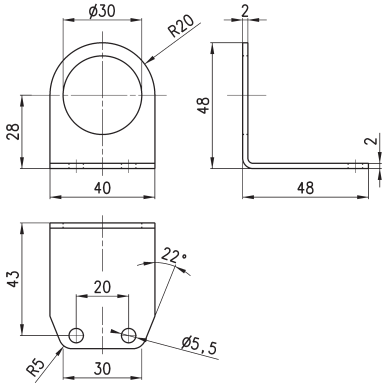


Mod.
C114-ST/1

Mounting bracket Mod. C114-ST/2

For regulators and filter-regulators
(G1/4 - G1/8)

The kit is supplied with 1 zinc-plated steel bracket.



Mod.
C114-ST/2

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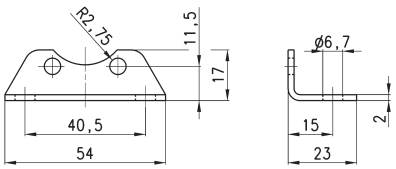
Mounting bracket Mod. N204-ST

For filters and lubricators

The kit is supplied with:
1 bracket
2 screws M5X6

Materials: zinc-plated steel bracket and screws.



Mod.
N204-ST

Pressure gauges
Mod. M043.. - M053.. - M063..

Precision class CL1,6

- Radial connection
- Rear connection
- Panel mounting

To select the most suitable pressure gauge, the measurement range should be chosen considering the type of application according to the following criteria:

1. Constant pressure or pressure with slow fluctuations should be within 75% of the maximun scale value.

2. Pulsing pressure or rapid fluctuations should be within 65% of the maximum scale value.

3. Pressure peaks should never exceed the maximum scale value.

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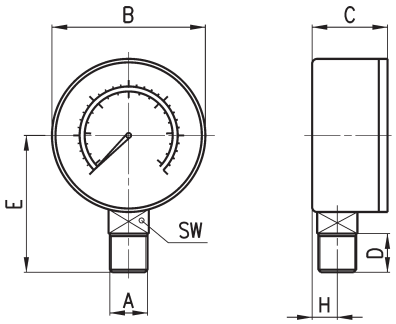
Pressure gauges with radial connection

Precision class CL1,6

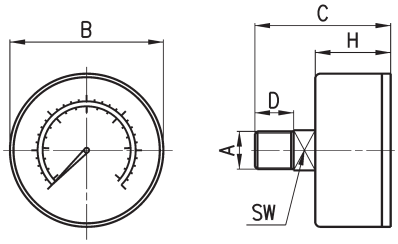


DIMENSIONS

Mod.	A	B	C	D	E	H	SW	Range
M043-R06	R1/8	Ø 38.8	24.2	10	35.2	9	12	0-6 bar
M043-R12	R1/8	Ø 38.8	24.2	10	35.2	9	12	0-12 bar
M053-R12	R1/8	Ø 48.8	27.5	10	43	10	14	0-12 bar
M063-R12	R1/4	Ø 63	28.8	12	50	10	14	0-12 bar

Pressure gauges with rear connection

Precision class CL1,6



DIMENSIONS

Mod.	A	B	C	D	H	SW	Range
M043-P04	R1/8	Ø 38.8	41	10	25	14	0-4 bar
M043-P06	R1/8	Ø 38.8	41	10	25	14	0-6 bar
M043-P10	R1/8	Ø 38.8	41	10	25	14	0-10 bar
M043-P12	R1/8	Ø 38.8	41	10	25	14	0-12 bar
M053-P04	R1/8	Ø 50	41.5	10	25	14	0-4 bar
M053-P06	R1/8	Ø 50	41.5	10	25	14	0-6 bar
M053-P10	R1/8	Ø 50	41.5	10	25	14	0-10 bar
M053-P12	R1/8	Ø 50	41.5	10	25	14	0-12 bar
M063-P04	R1/4	Ø 63	40.5	12	25	14	0-4 bar
M063-P06	R1/4	Ø 63	40.5	12	25	14	0-6 bar
M063-P12	R1/4	Ø 63	40.5	12	25	14	0-12 bar

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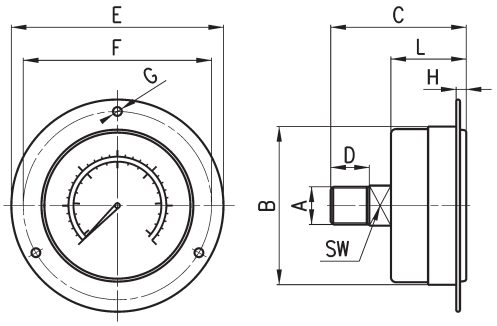
Pressure gauges for panel mounting

Precision class CL1,6



DIMENSIONS

Mod.	A	B	C	D	E	F	G	H	L	SW	Range
M043-F04	R1/8	Ø 40.5	43	10	61	51	Ø 3.5	4	27	12	0-4 bar
M043-F06	R1/8	Ø 40.5	43	10	61	51	Ø 3.5	4	27	12	0-6 bar
M043-F10	R1/8	Ø 40.5	43	10	61	51	Ø 3.5	4	27	12	0-10 bar
M043-F12	R1/8	Ø 40.5	43	10	61	51	Ø 3.5	4	27	12	0-12 bar
M063-F12	R1/4	Ø 63	54	12	85	75	Ø 3.5	4.5	30.5	14	0-12 bar

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Series PG digital pressure gauges

New

Possibility of a direct mounting with rear or panel connection

- Pressure unit on display
- Battery-powered / with cable
- Easy and fast read out with digital display
- 4 user programmable pressure units available
- Power saving mode
- Back light
- Dust-proof and splash-proof (IP65 protection class)

The new Series PG digital pressure gauges meet the need of an even more precise pressure adjustment, above all in proportional control.
Thanks to the IP65 protection class these pressure gauges are particularly suitable for applications where the highest environmental protection is required.

Products designed for industrial applications.
General terms and conditions for sale are available on www.camozzi.com.

TECHNICAL DATA

CHARACTERISTICS

	Vacuum PG...-VB...	Pressure PG...-PB...
Pressure units	psi, bar, mmHg, kPa programmable by the user	psi, bar, kgf/cm², MPa programmable by the user
Rated pressure range	0 ÷ -1 bar	0 ÷ 10 bar
Display pressure range	0.1 ÷ -1 bar	-0.1 ÷ 10 bar
Withstand pressure	3 bar	15 bar
Repeatability	≤ ± 1% F.S. ± 1 digit	≤ ± 0,2% F.S. ± 1 digit
Resolution: kPa	1	-
MPa	-	0.001
kgf/cm²	0.01	0.01
bar	0.01	0.01
psi	0.1	0.1
Indicator accuracy	≤ ± 2% F.S. ± 1 digit (ambient temperature: 25 ± 3°C)	
Medium	Filtered air, incombustible and non-corrosive gases	
Back light	Yes	
Sample rate	2 Hz (2 times/second)	
LCD display	3 ½ digit, 7 segment	
Environment: Protection class	IP65 (an air tube must be installed to maintain this grade)	
Temperature	Operation: 0 ÷ 50°C Storage: -10 ÷ 60°C (no condensation or freezing)	
Relative humidity	Operation/storage: 35 ÷ 85% RH (no condensation)	
Vibrations	Total amplitude 1.5mm or 10G 10Hz-55Hz-10Hz scan for 1 minute 2 hours for each direction of X, Y and Z	
Shock	100 m/s² (10G) 3 times for each direction of X, Y and Z	
Changes due to temperature	≤ ± 2% F.S. of detected pressure (25°C) within the operating temperature range	
Pneumatic connections ports	G1/4 - M5 or G1/8 - M5	

FOR BATTERY-POWERED PRESSURE GAUGES ONLY

Battery: Type	CR 2032 lithium
Life	1 year (5 times/day)
Low-power indicator	Yes
Replacement	Yes
Turn-on interval	Display turns off after 60 seconds

FOR PRESSURE GAUGES WITH POWER SUPPLY CABLE ONLY

Supply voltage	from 12 to 28 V DC±10% Ripple
Power consumption	10 mA
Maximum voltage	1000V AC in 1-min (between the casing and the cables)
Isolation resistance	50 Mohm min (at 500 V DC, between the casing and the cables)
Electrical connection: for pressure gauges PG...-2	Unshielded 2-pole cable, length 2 m
for pressure gauges PG...-M	Connection with M8 4-pole connector

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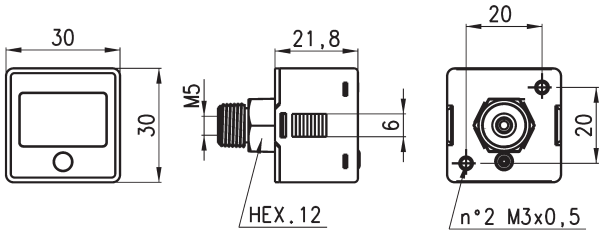
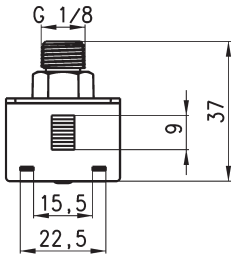
CODING EXAMPLE

PG	010	-	P	B	-	1/8	-	2

PG	SERIES
010	BOTTOM SCALE: 010 = 10 bar 001 = -1 bar
P	PRESSURE RANGE: P = pressure V = vacuum
B	LIGHTING: B = back light
1/8	PNEUMATIC CONNECTIONS: 1/8 = G 1/8 BSPP; M5 1/4 = G 1/4 BSPP; M5 (for battery-powered version only)
2	ELECTRICAL CONNECTION (for version with cable only): 2 = with unshielded 2-pole cable of 2 m M = with cable of 150 mm and M8 4-pole connector

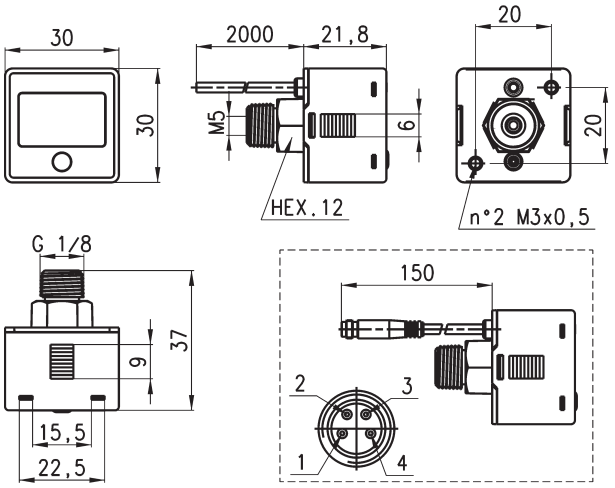
Series PG digital pressure gauges - battery-powered





Mod.
PG010-PB-1/8
PG001-VB-1/8
PG010-PB-1/4
PG001-VB-1/4

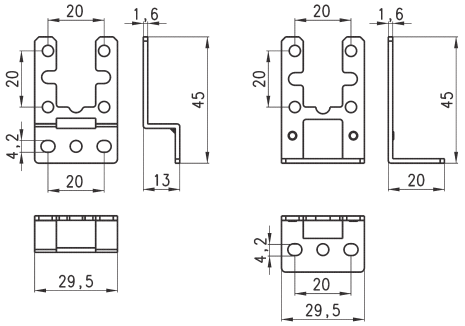
Series PG digital pressure gauges - with cable



Mod.
PG010-PB-1/8-2
PG001-VB-1/8-2
PG010-PB-1/4-M
PG001-VB-1/4-M

Mounting brackets Mod. PG-B

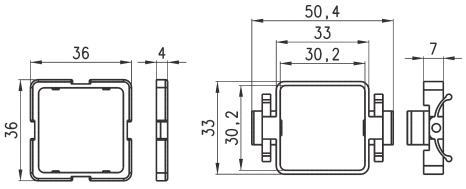
Supplied with:
1x bracket type A
1x bracket type B
2x screws M3x6



Mod.
PG-B

Panel mounting adapter Mod. PG-F

Supplied with:
1x adapter type A
1x adapter type B



Mod.
PG-F

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Condensate drains
Filtering elements

Semi-automatic manual drain; Automatic drain;
Depressurisation drain; Depressurisation drain, protected
Ports: 1/8 (without drain)

The filters are used to remove impurities in the compressed air, which must then be removed from the pneumatic circuit. The filters can be equipped with different types of drainings of condensate, both automatic and manual.
The correct combination and the functioning is reported in the table and in the descriptions on the following pages.

Different requirements of the air quality determine the use of different types of filtering elements, which retain the impurities during their working, thus clogging and reducing the amount of air in the passage. For this reason it is suggested to replace them once a year at least.

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TABLE TO MATCH FILTERS - DRAININGS OF CONDENSATE /CARTRIDGES

* = type of drain (see the complete description on the following pages)

Mod. filter	Type 0 and 1 *	Type 3 *	Type 4 *	Type 5 *	Type 8 (without drain)	Cartridge 25 µ	Cartridge 5 µ	Cartridge 1 µ	Cartridge 0.01 µ	Activated carbon
N10...-F	X				X	C104-F20/3	C104-F21/3			
N10...-D					X	C104-F20/3	C104-F21/3			
N10...-FB	X				X				MX1-F10	
N20...-F	X		X	X	X	C104-F20/3	C104-F21/3			
N20...-D	X		X	X	X	C104-F20/3	C104-F21/3			
N20...-FB	X		X	X	X				MX1-F10	
MC104-F	X		X			C104-F20/3	C104-F21/3			
MC104-D	X		X			C104-F20/3	C104-F21/3			
MC104-FB	X								MX1-F10	
MC202-F	X	X		X	X	C238-F11/3	C238-F12/3			
MC202-D	X	X		X	X	C238-F11/3	C238-F12/3			
MC202-FB	X	X		X	X				MX2-F10	
MC238-F	X	X		X	X	C238-F11/3	C238-F12/3			
MC238-D	X	X		X	X	C238-F11/3	C238-F12/3			
MC238-FB	X	X		X	X				MX2-F10	
MX2...-F	X	X		X	X	C238-F11/3	C238-F12/3			
MX2...FR	X	X		X	X	C238-F11/3	C238-F12/3			
MX2...-FC	X	X		X	X			MX2-F9	MX2-F10	
MX2..-FCA	X									MX2-F11
MX3...-F		X		X	X	MX3-F7	MX3-F8			
MX3...-FR	X	X		X	X	MX3-F7	MX3-F8			
MX3...-FC	X	X		X	X			MX3-F9	MX3-F10	
MX3..-FCA	X									MX3-F11

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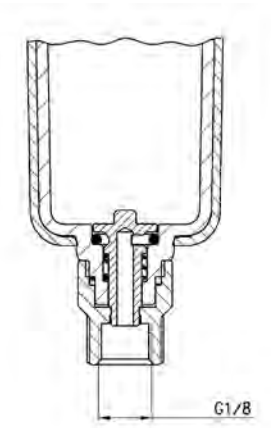
Semi-automatic manual drain (Type 0 and 1)

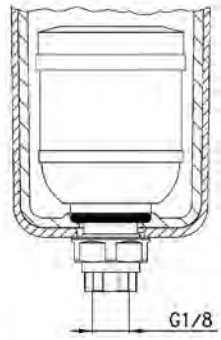
Functioning: with the operator mechanism turned clockwise, each time the pressure falls below 0.3 bar, the draining of condensate will be released; when resetting the pressure, the drain will close again. The release can also be carried out manually; when the bowl is pressurised, the operator mechanism is pushed upwards.



To avoid the discharge of condensate, the operator mechanism should be turned clockwise to completely close the drain.

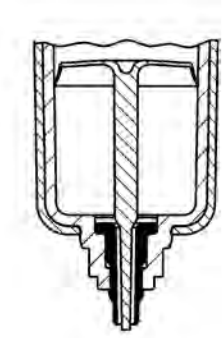
Automatic drain (Type 3)

Functioning: the presence of liquid inside the bowl raises the float, thus opening the exhaust valve.



Depressurisation drain (Type 4)

Functioning: each time air is required from the inlet, a slight difference of pressure is created between the upper part and lower part of the drain that rises, thus opening the exhaust valve.



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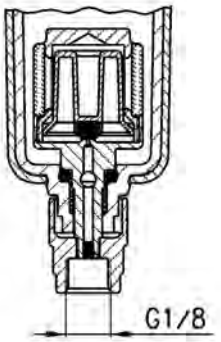
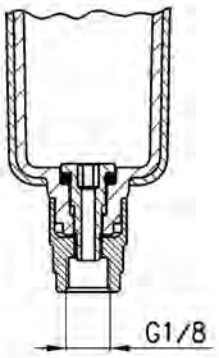
Depressurisation drain (Type 5)

Solution similar to the Type 4 but requiring a ΔP = 1 bar.
Functioning: this version has a filtering element which prevents any impurities from clocking the exhaust hole.



Without drain (Type 8)

The solution with port G1/8 is used to assemble the items to the bowl which is realized with a through hole of ø3 mm and a threaded port G1/8.



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