

Filters Series MX



Ports G3/4 - G1 Modular Bowl with technopolymer cover and bayonet-type mounting



- » Removal of impurities and condensate
- » High flow with minimal pressure decreases
- $_{\scriptscriptstyle \gg}$ Cartridge filters of 25 or 5 μm
- » Manual or automatic condensate drain
- » Bowl locking mechanism reducing the risk of accidents

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.

MX3 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.

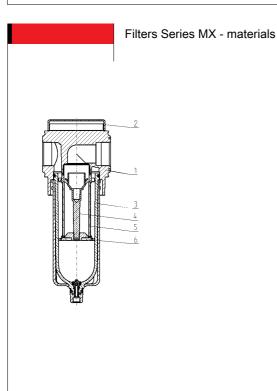
GENERAL DATA

Construction	modular, compact with filtering element in HDPE
Materials	see TABLE OF MATERIALS (pag. 3/1.05.02)
Ports	G3/4 - G1
Condensate capacity	85 cc
Weight	0,720 kg
Mounting	vertical in-line wall-mounting (by means of clamps)
Operating temperature	$-5^{\circ}C \div 50^{\circ}C$ up to 16 bar (with the dew point of the fluid lower than $2^{\circ}C$ at the min. working temperature) $-5^{\circ}C \div 60^{\circ}C$ up to 10 bar (with the dew point of the fluid lower than $2^{\circ}C$ at the min. working temperature)
Porosity of filtering element	25 μm (standard) 5 μm
Draining of condensate	manual - semi automatic(standard) automatic
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



CODIN	NG EXAMPLE						
MX	3	-	3/4	-	F	0	0
MX	SERIES						
3	SIZE: 3 = G3/4 - G1						
3/4							
F	FILTER						
0	FILTERING ELEMEN 0 = 25 μm (standard) 1 = 5 μm						
0							

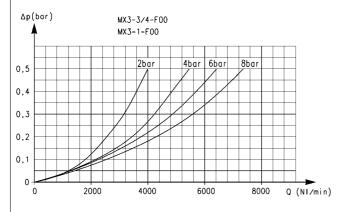
For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled" (pag. 3/1.50.01)



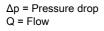
PARTS MATERIALS 1 = Body Aluminium 2 = Covering Polyacetal 3 = Bowl with technopolymer cover Polycarbonate/Polyamide 4 = Valve-guide Polyacetal 5 = Filtering element Polyethylene 6 = Separation deflector Polyacetal NBR Seals

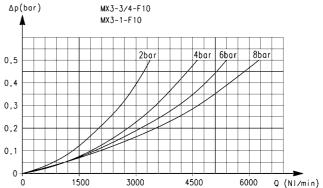
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FLOW DIAGRAMS



Reference diagram for models with filtering element = 25 µm





Reference diagram for models with filtering element = $5 \,\mu m$

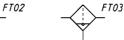
 Δp = Pressure drop Q = Flow

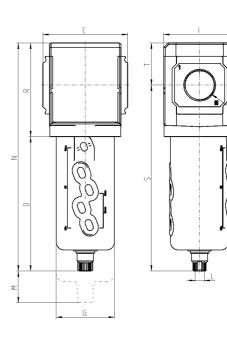
Filters Series MX - dimensions



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

FT01





Mod.	A	С	G		L	M	N	0	R	S	т
MX3-3/4-F00	G3/4	89,5	61,5	76	G1/8	75	241	142	99	196,5	44,5
MX3-1-F00	G1	89,5	61,5	76	G1/8	75	241	142	99	196,5	44,5

New

Coalescing filters Series MX

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 condensate drain
- » Bowl locking mechanism reducing the risk of accidents

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.

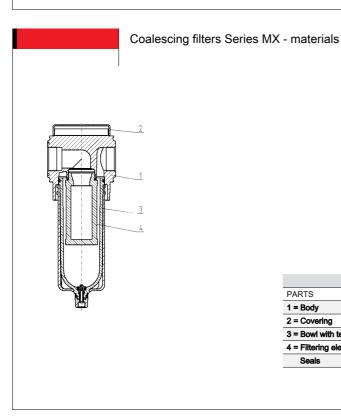
MX3 is the new series of air treatment components realized by Camozzi, characterized by a modern, linear and compact design, offering high performances. The perfect integration between metal alloys and technopolymers has allowed the realization of a reliable product, light and strong at the same time. Thanks to a new concept of modularity, moreover, the mounting of components has become easier.

GENERAL DATA

Construction	modular, compact					
Materials	see TABLE OF MATERIALS (pag. 3/1.10.02)					
Ports	G3/4 - G1					
Condensate capacity	85 cc					
Weight	0,780 kg					
Mounting	vertical in-line wall-mounting (by means of clamps)					
Operating temperature	$-5^{\circ}C \div 50^{\circ}C$ up to 16 bar (with the dew point of the fluid lower than $2^{\circ}C$ at the min. working temperature) $-5^{\circ}C \div 60^{\circ}C$ up to 10 bar (with the dew point of the fluid lower than $2^{\circ}C$ at the min. working temperature)					
Draining of condensate	manual - semiautomatic (standard) automatic					
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/m ³	< 0,01mg/m ³ < 0,1mg/m ³					
Oil retain efficiency	99,80% 97%					
Particles retain efficiency	99,99999% 99,999%					
Fluid	compressed air					
Pre-filtering with filtering element of 1 μm Pre-filtering with filtering element of 0,01 μm	it is recommended to use a filter of 5 μm it is recommended to use a filter with residual oil of 0,1 mg/m³					

CODIN	IG EXAMPLE							
MX	3 -	3/4	-	FC	0	0		
MX	SERIES							
3	SIZE: 3 = G3/4 - G1							
3/4	PORTS: 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 8 = no drain with port G1/8							

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)

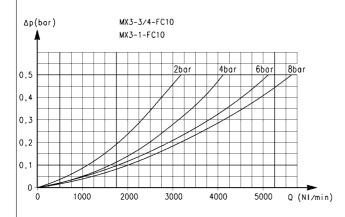


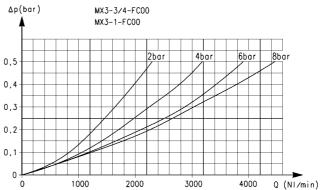
PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide
4 = Filtering element	Borosilicate
Seals	NBR



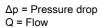


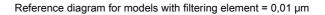
FLOW DIAGRAMS





Reference diagram for models with filtering element = 1 μ m





 Δp = Pressure drop Q = Flow

Coalescing filters Series MX - dimensions

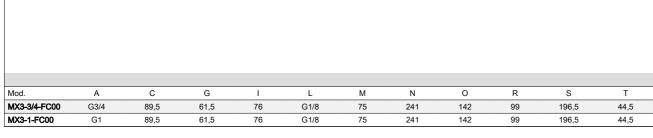


FA01 = coalescing filter without drain with threaded port FA02 = coalescing filter with semi-automatic manual drain FA03 = coalescing filter with automatic drain

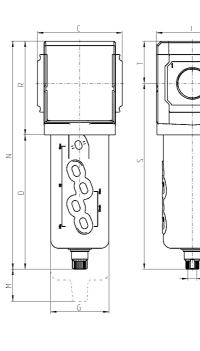
-----FA01

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The company reserves the right to vary models and dimensions without notice. Products designed for industrial applications. Sale to general public is forbidden.



New

Activated carbon filters Series MX

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 conforming to ISO 8573-1 standard, up to class 1.7.1
- » Bowl locking mechanism reducing the risk of accidents

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.

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GENERAL DATA

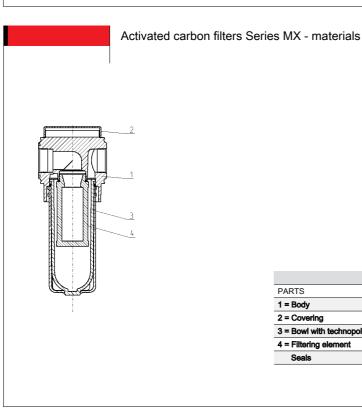
Construction	modular, compact with filtering element in HDPE
Materials	see TABLE OF MATERIALS (pag. 3/1.15.02)
Ports	G3/4 - G1
Weight	0,8 kg
Mounting	vertical in-line wall-mounting (by means of clamps)
Operating temperature	$10^{\circ}C \div 40^{\circ}C$ (t max = $60^{\circ}C$)
Draining of condensate	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/m ³
Fluid	compressed air
Pre-filtering	it is recommended to use a filter with residual oil of 0,01mg/m ³

CODING EXAMPLE



MX 3 3/4 FCA MX SERIES FCA FCA FCA FCA FCA FCA FCA -</

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)



 PARTS
 MATERIALS

 1 = Body
 Aluminium

 2 = Covering
 Polyacetal

 3 = Bowl with technopolymer cover
 Polycarbonate/Polyamide

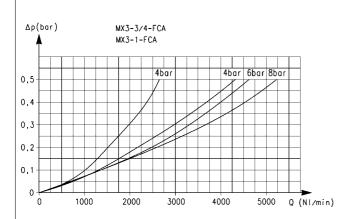
 4 = Filtering element
 Active carbon

 Seals
 NBR





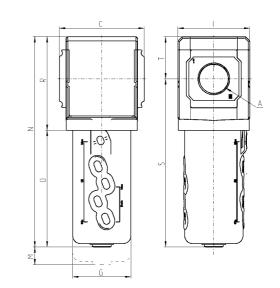
FLOW DIAGRAMS



 Δp = Pressure drop Q = Flow

Activated car	bon filters Series	MX - dimensions
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FC 01

Mod.	А	С	G	I	М	N	0	R	S	Т
MX3-3/4-FCA	G3/4	89,5	61,5	76	107	222	123	99,0	177,5	44,5
MX3-1-FCA	G1	89,5	61,5	76	107	222	123	99,0	177,5	44,5

Pressure regulators Series MX

New

Ports G3/4 - G1 Modular

Available with built-in pressure gauges or with ports for gauges



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 suitable also for panel mountings.

» Minimal pressure decreases

- » Knob with closure
- » Tamper-proof system (lockable regulator)
- » Integral return exhaust (relieving)

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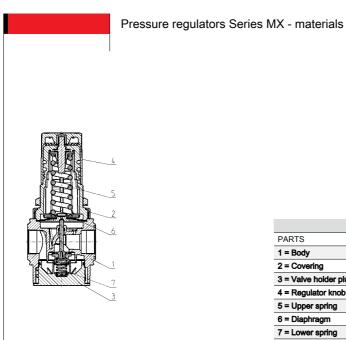
GENERAL DATA

Construction	modular, compact, diaphragm type
Materials	see TABLE OF MATERIALS (pag. 3/1.20.02)
Ports	G3/4 - G1
Weight	1,05 kg
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 0 ÷ 4 bar
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 ports for pressure gauge (G1/4 ports)



CODIN	CODING EXAMPLE							
MX	3	-	3/4	-	R	0	0	4
MX	SERIES							
3	SIZE: 3 = G3/4 - G1							
3/4	PORTS: 3/4 = G3/4 1 = G1							
R	PRESSURE REGULATOR							
0	OPERATING PRESSURE (1 bar = 14,5 psi) 0 = 0,5 ÷ 10 bar (standard) 4 = 0 ÷ 4 bar							
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 4 = with built-in pressure gauge 0-12 and working pressure 0,5 + 10 bar (standard)							

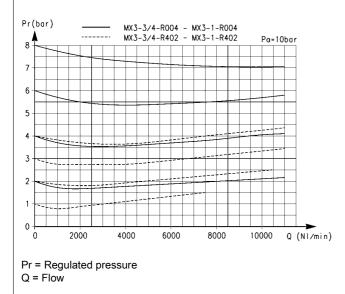
For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled" (pag. 3/1.50.01)



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



FLOW DIAGRAMS



Pa = Inlet pressure

Pressure regulators Series MX - dimensions

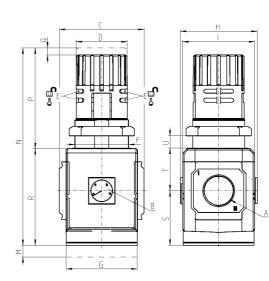


PR01 = regulator without relieving PR02 = regulator with relieving PR05 = regulator without relieving and with pressure gauge PR06 = regulator with relieving and pressure gauge









A	B (bar)	С	D	E	F	G	Н	I	M	N	P	Q	R	S	Т	U
G3/4	0 ÷ 12	89,5	54	Ø4	M57x1,5	75	81	76	45	206	104	5	102	57,5	44,5	0 ÷ 20
G1	0 ÷ 12	89,5	54	Ø4	M57x1,5	75	81	76	45	206	104	5	102	57,5	44,5	0 ÷ 20
	G3/4	G3/4 0 ÷ 12	G3/4 0 ÷ 12 89,5	G3/4 0 ÷ 12 89,5 54	G3/4 0÷12 89,5 54 Ø4	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76 45	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76 45 206	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76 45 206 104	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76 45 206 104 5	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76 45 206 104 5 102	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76 45 206 104 5 102 57,5	G3/4 0 ÷ 12 89,5 54 Ø4 M57x1,5 75 81 76 45 206 104 5 102 57,5 44,5





Lubricators Series MX



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 mechanism reducing the risk of accidents

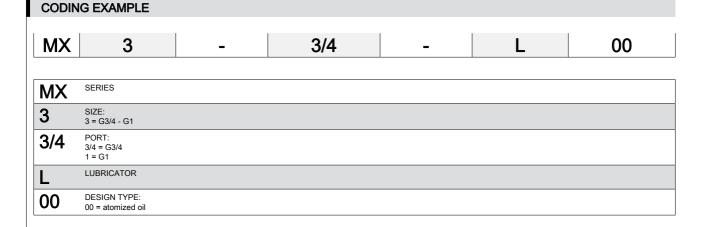
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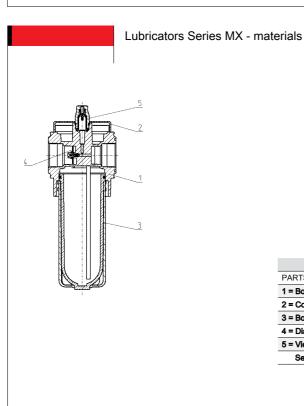
GENERAL DATA

Construction	modular, compact
Materials	see TABLE OF MATERIALS (pag. 3/1.25.02)
Ports	G3/4 - G1
Oil capacity	170 cc
Weight	0,75 kg
Oil refilling	even during use
Mounting	vertical in-line wall-mounting (by means of clamps)
Operating temperature	$-5^{\circ}C \div 50^{\circ}C$ up to 16 bar (with the dew point of the fluid lower than $2^{\circ}C$ at the min. working temperature) $-5^{\circ}C \div 60^{\circ}C$ up to 10 bar (with the dew point of the fluid lower than $2^{\circ}C$ 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 Min. air consumption for lubrication at 6 bar	50 Nl/min 95 Nl/min
Nominal flow	see FLOW DIAGRAMS (pag 3/1.25.03)





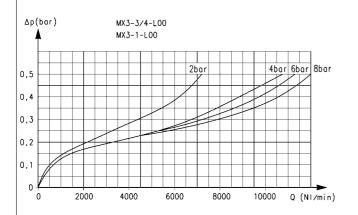
For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled" (pag. 3/1.50.01)



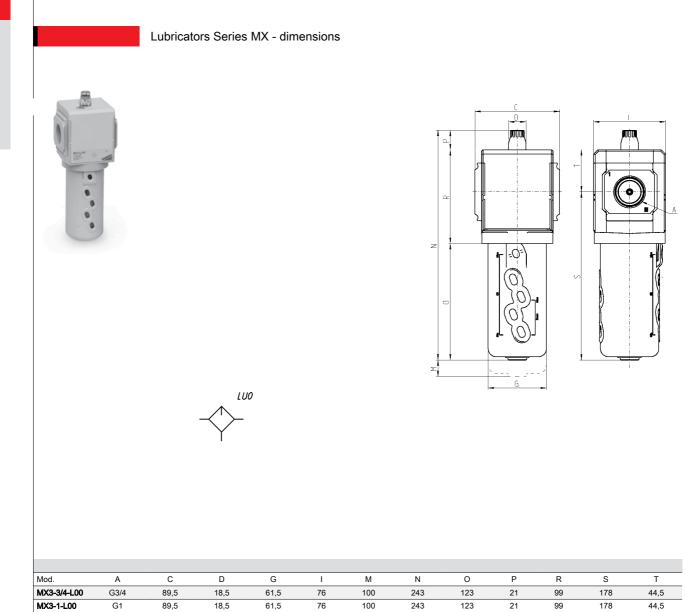
PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyacetal
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide
4 = Diaphragm	NBR
5 = Viewer	Polyamide
Seals	NBR



FLOW DIAGRAMS



 Δp = Pressure drop Q = Flow



CATALOGUE > Release 8.4

Filter-regulators Series MX

New

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 mechanism
- » reducing the risk of accidents

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.

Filter-regulators Series MX integrate filter and pressure reducer in one unit. They are, therefore, compact and suitable for pre-filtering functions.

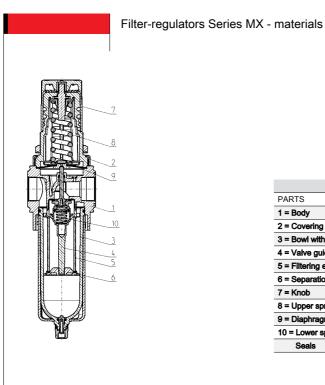
Available with or without draining (relieving), they are equipped with a valve diaphragm for a direct pressure regulation and with an integrated condensate drainer, manual or automatic. Moreover, they are equipped with a built-in pressure gauge.

GENERAL DATA

Construction	modular, compact with filtering element in HDPE
Materials	see TABLE OF MATERIALS (pag. 3/1.30.02)
Ports	G3/4 - G1
Condensate capacity	85 cc
Weight	1,250 kg
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	manual - semiautomatic (standard)
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 ports for pressure gauge (G1/4 ports)

CODIN	IG EXAMPLE
MX	3 - 3/4 - FR 0 0 0 4
MX	SERIES
3	SIZE: 3 = G3/4 - G1
3/4	PORT: 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 3 = 5 μm without relieving
0	DRAINING OF CONDENSATE: 0 = manual semiautomatic drain (standard) 3 = automatic drain 8 = no drain with port G1/8
0	OPERATING PRESSURE: 0 = 0,5 + 10 bar (standard) 4 = 0 + 4 bar
4	PRESSURE GAUGE: 0 = without pressure gauge(with threaded port) 2 = with built-in pressure gauge 0-6 and working pressure 0 ÷ 4 bar 4 = with built-in pressure gauge 0-12 and working pressure 0,5 + 10 bar (standard)

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)



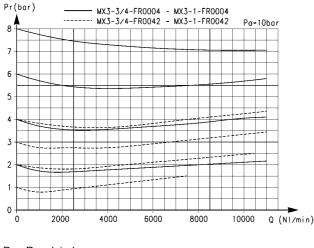
PARTS	MATERIALS						
1 = Body	Aluminium						
2 = Covering	Polyacetal						
3 = Bowl with technopolymer cover	Polycarbonate/Polyamide						
4 = Valve guide	Polyacetal						
5 = Filtering element	Polyethylene						
6 = Separation deflector	Polyacetal						
7 = Knob	Polyamide						
8 = Upper spring	Zinc-plated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

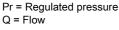


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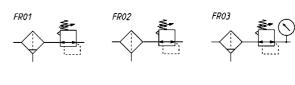
TREATMENT

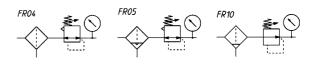


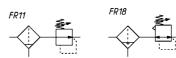




Pa = Inlet pressure



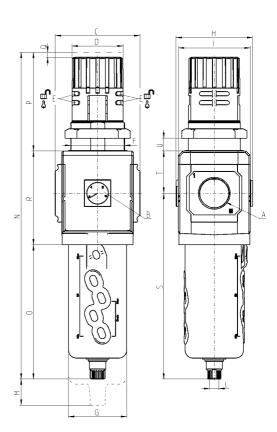




FR01 = filter-regulator with relieving and manual drain FR02 = FR with relieving and without drain FR03 = FR with relieving, manual drain and pressure gauge FR04 = FR with relieving, without drain and with pressure gauge FR05 = FR with relieving, automatic drain and pressure gauge FR10 = FR with manual drain, no relieving, with pressure gauge FR11 = FR with manual drain and without relieving FR18 = FR with relieving and automatic drain

Filter-regulators Series MX - dimensions





Mod.	А	B (bar)	С	D	Е	F	G	н	I	L	М	Ν	0	Р	Q	R	S	Т	U
MX3-3/4-FR0004	G3/4	0 ÷ 12	89,5	54	Ø4	M57x1,5	61,5	81	76	G1/8	75	345	142	104	5	99	196,5	44,5	0 ÷ 20
MX3-1-FR0004	G1	0 ÷ 12	89,5	54	Ø4	M57x1,5	61,5	81	76	G1/8	75	345	142	104	5	99	196,5	44,5	0 ÷ 20



Lockable isolation 3/2 way valves Series MX



Ports G3/4 - G1 Modular

Manual, electro-pneumatic, servo-pilot and pneumatic control





- » Standard tamperproof lock-out (manual valve)
- » One/more locks for the lockout 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.

Manual isolation valves: 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.

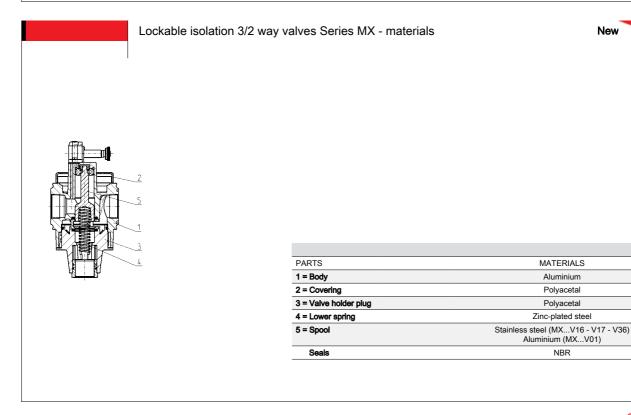
GENERAL DATA

Construction	modular, compact, spool-type
Materials	see TABLE OF MATERIALS (pag. 3/1.35.01)
Ports	G3/4 - G1
Weight	Manual valve = 0,75 kg Electro-pneumatic valve (V16) = 0,8 kg Pneumatic valve (V36) = 0,8 kg Servo-pilot valve (V17) = 0,87 kg
Mounting	in-line wall-mounting (by means of clamps)
Operating temperature	$-5^{\circ}C \div 50^{\circ}C$ up to 16 bar (with the dew point of the fluid lower than $2^{\circ}C$ at the min. working temperature) $-5^{\circ}C \div 60^{\circ}C$ up to 10 bar (with the dew point of the fluid lower than $2^{\circ}C$ at the min. working temperature)
Operating pressure	2 ÷ 10 bar (in the pneumatic version - 0,8 ÷ 10 bar)
Nominal flow	see FLOW DIAGRAMS (pag. 3/1.35.03 e 3/1.35.04)
Nominal exhaust flow at 6 bar with $\Delta p = 1$ bar	G3/4 - G1 = 9200 NI/m
Fluid	compressed air



CODIN	IG EXAMPLE					
MX	3	-	3/4	-	V	01
MX	SERIES					
3	SIZE: 3 = G3/4 - G1					
3/4	PORT: 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	ol				

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)



FLOW DIAGRAM for valves Mod. MX...V01

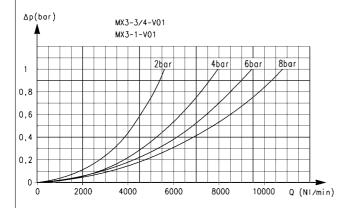


Diagram for lockable manual control valves

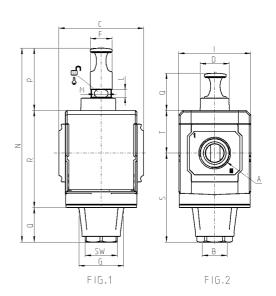
 Δp = Pressure drop Q = Flow

3

Lockable manual valves Series MX - dimensions

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





	2	VN02
]
12	1 1	3

Mod.	A	В	С	D	F	G	1	L	М	N	0	P	Q	R	S	SW	Т
MX3-3/4-V01	G3/4	G3/4	89,5	31	23	48	76	8	14,5	205,5	37	66,5	40	102	94,5	34	44,5
MX3-1-V01	G1	G3/4	89,5	31	23	48	76	8	14,5	205,5	37	66,5	40	102	94,5	34	44,5

<u>3/1.35.03</u> 693

The company reserves the right to vary models and dimensions without notice. Products designed for industrial applications. Sale to general public is forbidden.

FLOW DIAGRAM for valves Mod. Mod. MX...V16 - MX...V17 - MX...V36

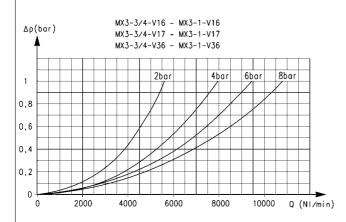


Diagram for electro-pneumatic, servo-pilot or pneumatic control valves

 Δp = Pressure drop Q = Flow

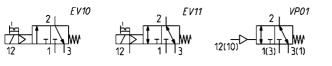
3/2 Isolation valves Series MX - dimensions

Electro-pneumatic, servo-pilot or pneumatic valves



EV10 = solenoid valve, 3/2 NC, monostable, with bistable manual override EV11 = solenoid valve, 3/2, monostable, solenoid pilot with separate air supply and bistable manual override

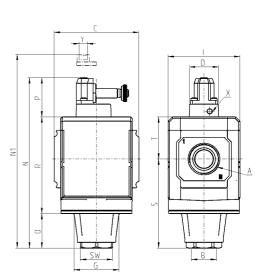
VP01 = pneumatically operated valve, 3/2, monostable, mechanical spring



Mod.	А	В	С	D	G	I	Ν	N1	0	Р	R	S	SW	Т	х	Y	Symbol
MX3-3/4-V16	G3/4	G3/4	89,5	31	48	76	180,5	-	37	41,5	102	94,5	34	44,5	-	-	EV10
MX3-1-V16	G1	G3/4	89,5	31	48	76	180,5	-	37	41,5	102	94,5	34	44,5	-	-	EV10
MX3-3/4-V17	G3/4	G3/4	89,5	31	48	76	180,5	-	37	41,5	102	94,5	34	44,5	M5	-	EV11
MX3-1-V17	G1	G3/4	89,5	31	48	76	180,5	-	37	41,5	102	94,5	34	44,5	M5	-	EV11
MX3-3/4-V36	G3/4	G3/4	89,5	31	48	76	-	164	37	-	102	94,5	34	44,5	-	G1/8	VP01
MX3-1-V36	G1	G3/4	89,5	31	48	76	-	164	37	-	102	94,5	34	44,5	-	G1/8	VP01

The company reserves the right to vary models and dimensions without notice. Products designed for industrial applications. Sale to general public is forbidden.









Soft start valves Series MX

Ports G3/4 - G1 Modular



MX3-1-AV Parties C

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.

GENERAL DATA

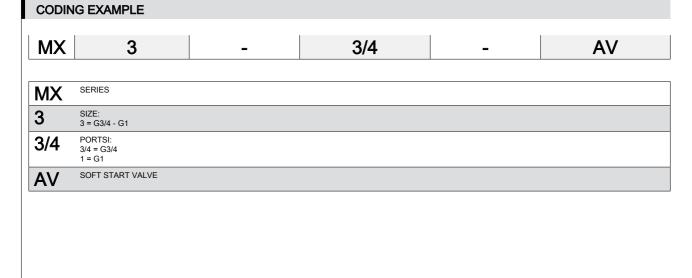
Construction	modular, compact, poppet-type
Materials	see TABLE OF MATERIALS (pag. 3/1.40.02)
Ports	G3/4 - G1
Weight	0,65 kg
Mounting	in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) 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 ÷ 10 bar
Nominal flow (at 6 bar with ΔP 1 bar)	8500 l/min
Fluid	compressed air

» Security function to maintain the command sequence

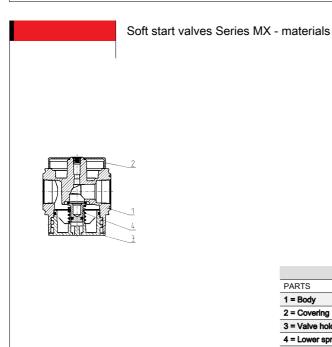
- » Opening of the main air path at about 50% of the value of the inlet pressure
- » Pressure switches available on request

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.





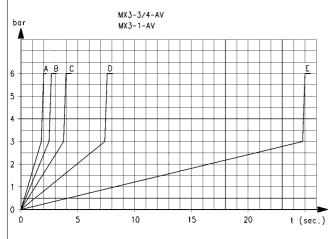
For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled" (pag. 3/1.50.01)

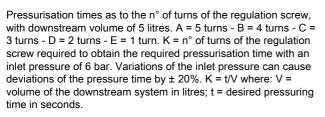


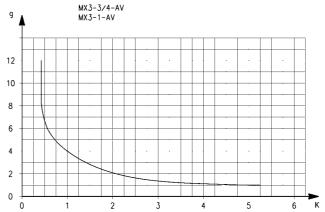
PARTS MATERIALS
1 = Body Aluminium
2 = Covering Polyacetal
3 = Valve holder plug Polyacetal
4 = Lower spring Stainless steel
Seals NBR

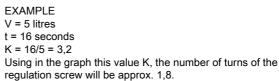
3

DIAGRAMS FOR PRESSURISATION TIMES



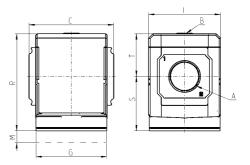






Soft start valves Series MX - dimensions

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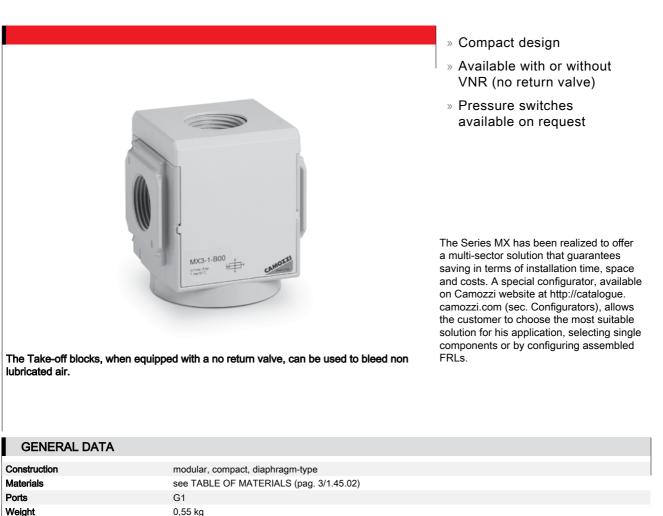
Mod.	A	В	С	G	1	М	R	S	Т
MX3-3/4-AV	G3/4	G1/8	89,5	75	76	45	102	57,5	44,5
MX3-1-AV	G1	G1/8	89,5	75	76	45	102	57,5	44,5

3/1.40.03 697 The company reserves the right to vary models and dimensions without notice. Products designed for industrial applications. Sale to general public is forbidden. Series MX

Take-off blocks

New

Ports G1 Modular



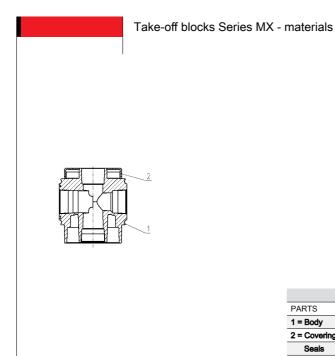
Weight	0,55 kg
Take-off ports	G1
Mounting	in-line wall-mounting (by means of clamps)
Operating temperature	-5°C ÷ 50°C up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature) -5°C ÷ 60°C up to 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Operating pressure	0 ÷ 16 bar
Nominal flow at 6 bar with $\Delta p = 1$ bar	MX3-1-B00 = 14500 NI/m MX3-1-B01 = 10500 NI/m
Fluid	compressed air

The company reserves the right to vary models and dimensions without notice. Products designed for industrial applications. Sale to general public is forbidden.

CODING EXAMPLE MX 3 1 B 00 MX SERIES 3 SIZE: 3 = G3/4 - G1 B B B

3	SIZE: 3 = G3/4 - G1
1	PORT: 1 = G1
В	TAKE-OFF BLOCK
00	DESIGN TYPE: 00 = without no return valve (standard) 01 = with no return valve

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)



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

New

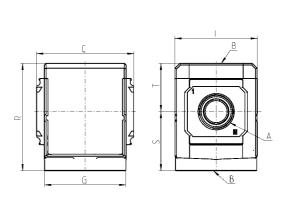


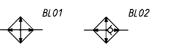
Take-off blocks Series MX - dimensions



Mod.

MX3-1-B00





BL01 = take-off block

BL02 = take-off block with VNR

в

G1

А

G1

С

89,5

G

75

R

99

Т

76

s

54,5

Т

44,5



TREATMENT > Assembled FRL Series MX

Assembled FRL Series MX

CATALOGUE > Release 8.4



Ports G3/4, G1 Assembly through rapid clamps



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

The new FRL Series MX 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 DAT	A
Construction	modular, compact
Materials	see catalogue pages referring to the single component
Ports	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)

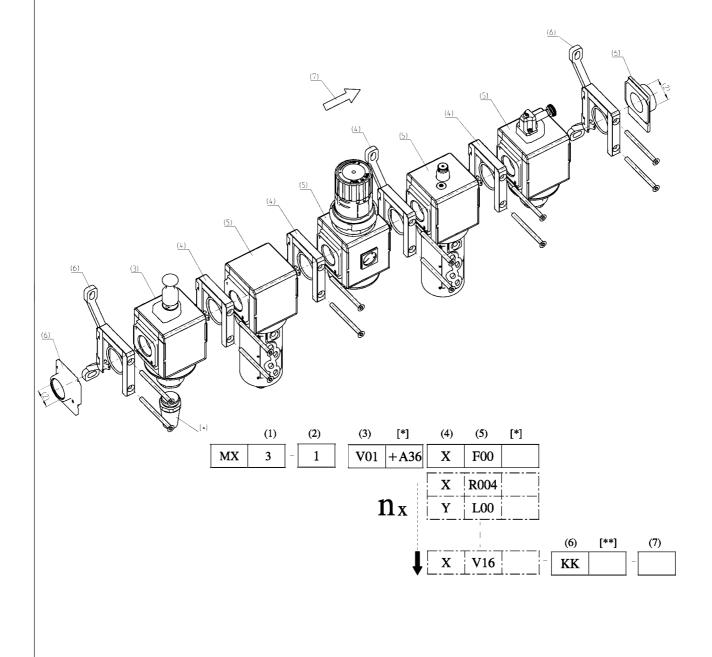
New

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:

MX3-1-V01+A36XF00XR004YL00XV16-KK



MX	3 -	1 - V01 X F00 - KK - LH
MX		SERIES
3	(1)	SIZE: 3 = G3/4 - G1
-		
1	(2)	IN / OUT THREADS: 3/4 = G3/4 1 = G1
V01	(3) [*]	MODULE + [*] (for the modules configuration, see pages referring to the single component): 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 (G1 only) The following ACCESSORIES can be added after every single module: REGULATOR AND FILTER-REGULATOR +A59 = M063-P04 (Pressure gauge) +A61 = M063-P12 (Pressure gauge) +A61 = M063-P12 (Pressure gauge) LOCKABLE ISOLATION VALVE +A35 = 2921 3/4" (Silencier) +A36 = 2931 3/4" (Silencier) +A36 = 2931 3/4" (Silencier) +A01 = PM11-NC (Pressure switch, normally open) +A01 = PM11-NC (Pressure switch, normally closed) TAKE-OFF BLOCK +A06 = PM11-NA (normally open pressure switch) with fitting for fixing to the module +A07 = PM11-NC (with fitting for fixing to the module +A07 = PM11-NC (with fitting for fixing to the module +A07 = PM11-NC (with fitting for fixing to the module
X	(4)	MODULES CONNECTION (according to the positioning scheme on page 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 page 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-RXVS; MX3-1-RXVHSH
LH	(7)	FLOW DIRECTION: = from left to right (standard) LH = from right to left
	(4) + (5)+[*]	REPEATABLE COMBINATION for a "n" number of times





Legend of the POSITIONING SCHEME: 1 = rapid clamp with wall fixing screw or with wall fixing bracket 2 = module / flange Legend of the ASSEMBLED GROUPS DRAWINGS: "Y" = with rapid clamps with wall fixing brackets (MX3-Y) "Z" = with rapid clamp with wall fixing screws (MX3-Z) G = fixing point * POSITIONING SCHEME referring to drawings " Y " and " Z ". ſī 1 1 * ſſ ക ſ¢ [€ 0 \odot 0 Mod. А В С D F1 F2 L М

160

68

40,5

40,5

40,5

13

Wall fixing - mounting dimensions and positioning scheme

The company reserves the right to vary models and dimensions without notice. Products designed for industrial applications. Sale to general public is forbidden.

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82

27

MX3-Y

MX3-Z

267

267

M6

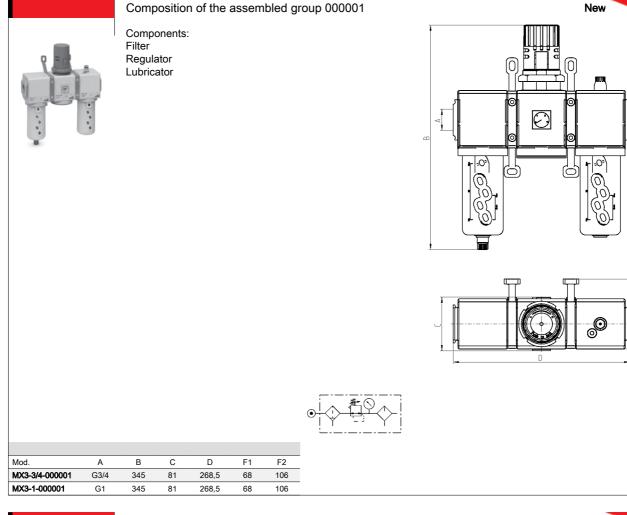
TREATMENT

CODING EXAMPLE

MX	3 - 3/4 -	01
MX	SERIES	
3	SIZE: 3 = G3/4 - G1	
3/4	PORTS: 3/4 = G3/4 1 = G1	
000001	GROUP COMPOSITION: 000001 = F10 + R004 + L00 000002 = FR1004 + L00 000003 = V01 + FR1004 + L00 000004 = V01 + FR1004 + L00 000005 = FR1004 + V16 + AV 000006 = FR1004 + V16 + AV 000007 = V01 + FR1004 + V16 + AV + PRESS. NO 000009 = V01 + FR1004 + V16 + AV + PRESS. NC 000010 = V01 + FR1004 + V16 + AV + PRESS. NC 000011 = V01 + FR1004 + V16 + AV + PRESS. NC 000011 = V01 + FR1004 + V16 + AV + PRESS. NC 000012 = F13 + FC03	

New



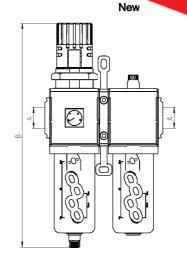


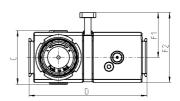
<u> 1</u>



Composition of the assembled group 000002

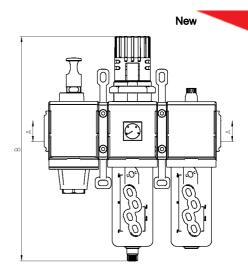
Components: Filter-regulator Lubricator

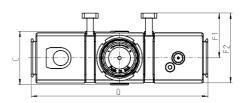


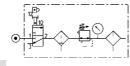


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Mod.	A	В	С	D	F1	F2	
MX3-3/4-000002	G3/4	345	81	179	68	106	
MX3-1-000002	G1	345	81	179	68	106	

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





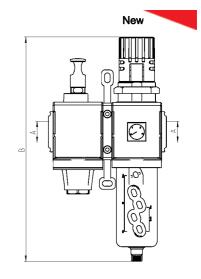


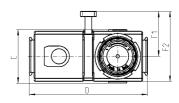
Mod.	А	В	С	D	F1	F2
MX3-3/4-000003	G3/4	345	81	268,5	68	106
MX3-1-000003	G1	345	81	268,5	68	106

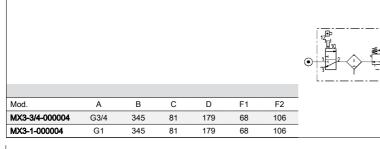
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Composition of the assembled group 000004

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



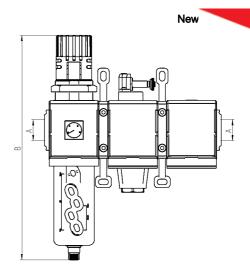


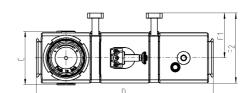


CATALOGUE > Release 8.4

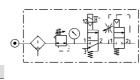


Components: Filter-regulator Lockable isolation 3/2 way valve Soft start valve





New

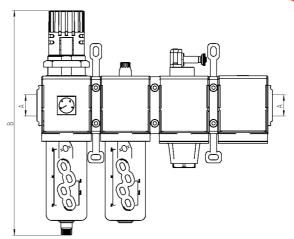


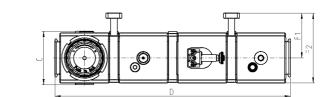
Mod.	А	В	С	D	F1	F2
MX3-3/4-000005	G3/4	345	81	268,5	68	106
MX3-1-000005	G1	345	81	268,5	68	106

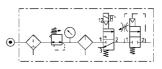


Composition of the assembled group 000006

Components: Filter-regulator Lubricator Soft start valve

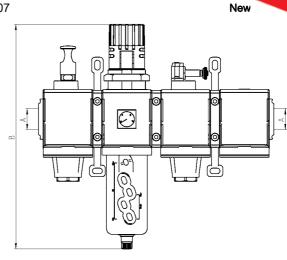


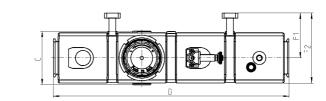


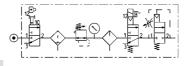


Mod.	A	В	С	D	F1	F2
MX3-3/4-000006	G3/4	345	81	358	68	106
MX3-1-000006	G1	345	81	358	68	106

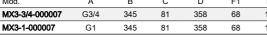
Components: Lockable isolation 3/2 way valve Filter-regulator Lockable isolation 3/2 way valve Soft start valve

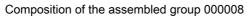






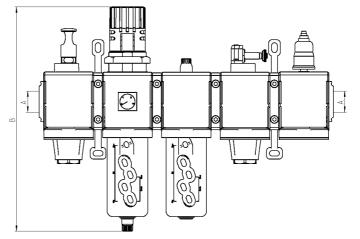
Mod.	А	В	С	D	F1	F2
MX3-3/4-000007	G3/4	345	81	358	68	106
MX3-1-000007	G1	345	81	358	68	106

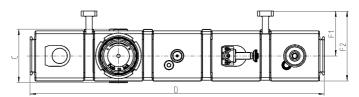


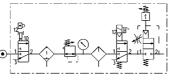




Components: Lockable isolation 3/2 way valve Filter-regulator Lubricator Lockable isolation 3/2 way valve Soft start valve + pressure switch (NO)



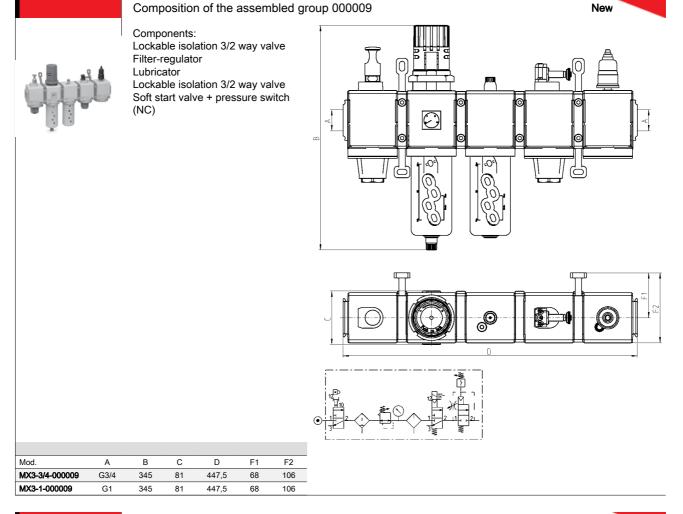




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Mod.	A	В	С	D	F1	F2	
MX3-3/4-000008	G3/4	345	81	447,5	68	106	
MX3-1-000008	G1	345	81	447,5	68	106	

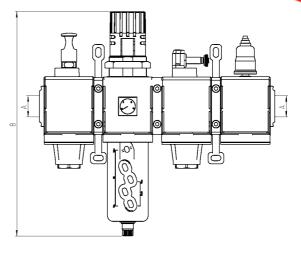
3

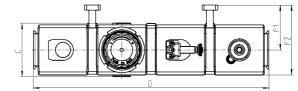


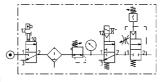




Components: Lockable isolation 3/2 way valve Filter-regulator Lockable isolation 3/2 way valve Soft start valve + pressure switch (NO)





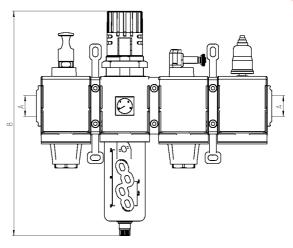


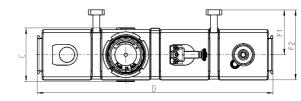
Mod.	A	В	С	D	F1	F2
MX3-3/4-000010	G3/4	345	81	358	68	106
MX3-1-000010	G1	345	81	358	68	106

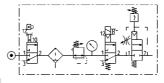
New

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)



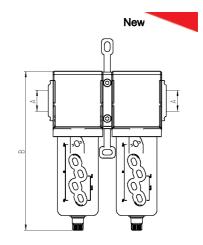


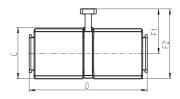


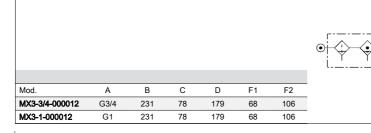
Mod.	А	В	С	D	F1	F2
MX3-3/4-000011	G3/4	345	81	358	68	106
MX3-1-000011	G1	345	81	358	68	106

Composition of the assembled group 000012

Components: Filter Coalescing filter







IREAL

3