



NORTH AMERICAN FRL CATALOG > Release 8.2

3

Filter-Regulators Series MX

Ports 3/4" - 1" NPTF

Innovative modular clamping system

Quick-Release, locking bayonet bowls

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

Available in relieving or non-relieving, they are equipped with a valve diaphragm for a direct pressure regulation and with an integrated condensate drain, manual or automatic. Moreover, they can be 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's global 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.



- » Filtering element options of 25 µm or 5 µm
- » Available versions: with built-in gauge or with ports for gauge
- » Lockable knob with mechanical stop and tamper-proof lock-out features
- » Bowl locking mechanism
- » Enhanced safety features

GENERAL DATA

Construction	modular, compact with filtering element in HDPE
Materials	see TABLE OF MATERIALS
Ports	3/4" - 1" NPTF
Condensate capacity	85 cc, (approx. 3 oz.)
Weight	1,250 kg, (2.75 lbs)
Mounting	vertical in-line wall-mounting (by means of clamps) panel mounting
Operating temperature	-5°C - 50°C at 16 bar (with the dew point of the fluid), (23 F - 122 F @ 232 psi, up to 140 F MAX at 145 psi) 50°C - 60°C at 10 bar (with the dew point of the fluid)
Porosity of filtering element	25 µm 5 µm
Draining of condensate	manual - semiautomatic drain options, see code key for selection
Operating pressure	0,3 - 16 bar (with automatic drain 1,5 - 12 bar, (4.5 - 232 psi, 22 - 175 psi w/ automatic drain option))
Nominal flow	see FLOW DIAGRAMS
Fluid	compressed air
Pressure gauge	version with built-in pressure gauge or version with ports for pressure gauge (1/4 ports), available standard on all units

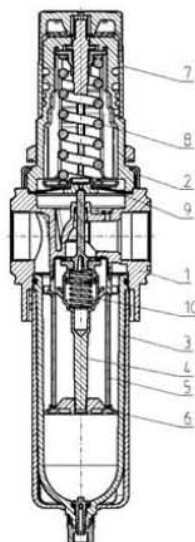
MODULAR FRL SERIES MX

**CODING EXAMPLE**

MX	3	-	3/4	-	FR	0	0	0	4	TF
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MX	SERIES
3	SIZE: 3 = 3/4" - 1" NPTF
3/4	PORT: 3/4 = 3/4" 1 = 1"
FR	FILTER-REGULATOR
0	FILTERING ELEMENT WITH DESIGN TYPE: 0 = 25 µm with relieving 1 = 5 µm with relieving 2 = 25 µm without relieving 3 = 5 µm without relieving
0	DRAINING OF CONDENSATE: 0 = manual semiautomatic drain 3 = automatic drain 8 = no drain, threaded female port 1/8"
0	OPERATING PRESSURE: 0 = 0,5 - 10 bar, (7,25 - 145 psi) 4 = 0 - 4 bar, (0 - 60 psi)
4	PRESSURE GAUGE: 0 = without pressure gauge(with threaded port) 2 = with built-in pressure gauge 0-6, (0 - 90 psi range) 4 = with built-in pressure gauge 0-12, (0 - 175 psi range)
TF	TF = NPTF ports blank = BSPP ports

For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

Filter-regulators Series MX - materials

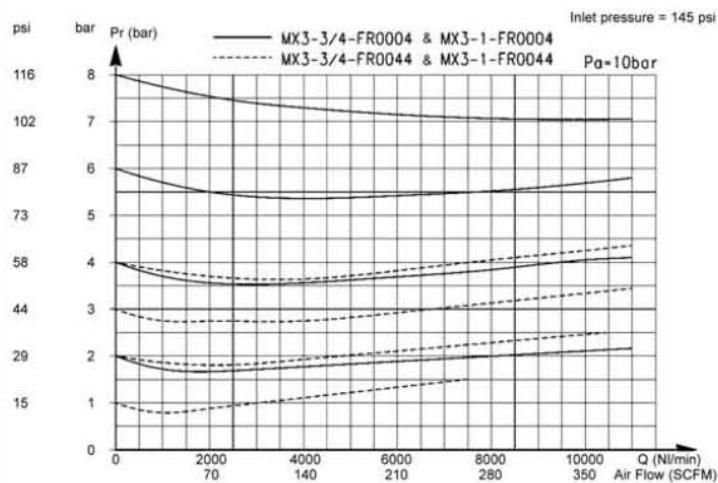
PARTS	MATERIALS
1 = Body	Aluminium
2 = Covering	Polyamide
3 = Composite Bowl with Nylon shroud	Polycarbonate/Polyamide
4 = Valve guide	Polyacetal
5 = Filtering element	Polyethylene
6 = Separation deflector	Polyacetal
7 = Knob	Polyamide
8 = Upper spring	Zinc-plated steel
9 = Diaphragm	NBR
10 = Lower spring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



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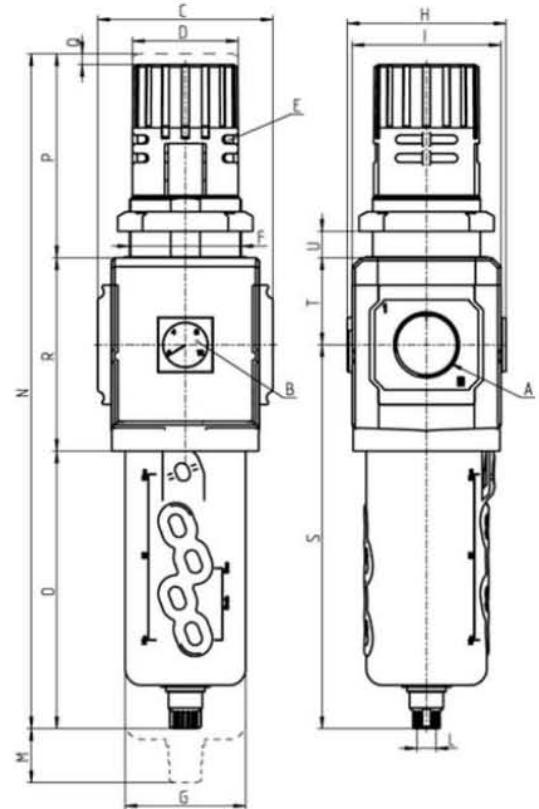
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FLOW DIAGRAMS



Pr = Regulated Pressure
Q = Flow
Pa = Inlet pressure

Filter-regulators Series MX - dimensions



DIMENSIONS (in inches)

Mod.	A	B (psi)	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	U
MX3-3/4-FR0004TF	3/4	0 - 175	3.524	2.126	Ø 0.156	M57x1.5	2.421	3.189	2.992	1/8	2.953	13.583	5.591	4.094	0.197	3.898	7.736	1.752	0 - 0.785
MX3-1-FR0004TF	1	0 - 175	3.524	2.126	Ø 0.156	M57x1.5	2.421	3.189	2.992	1/8	2.953	13.583	5.591	4.094	0.197	3.898	7.736	1.752	0 - 0.785