

# Pressure regulators Series MX

New

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 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.

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.

## GENERAL DATA

<b>Construction</b>	modular, compact, diaphragm type
<b>Materials</b>	see TABLE OF MATERIALS (pag. 3/1.20.02)
<b>Ports</b>	MX2: G3/8 - G1/2 - G3/4 MX3: G3/4 - G1 Manifold regulator: G1/2 (MX2 only)
<b>Mounting</b>	vertical in-line wall-mounting (by means of clamps) panel mounting
<b>Operating temperature</b>	-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)
<b>Inlet pressure</b>	0 ÷ 16 bar
<b>Outlet pressure</b>	0,5 ÷ 10 bar (standard) 0 ÷ 4 bar 0,5 ÷ 7 bar (MX2 only)
<b>Overpressure exhaust</b>	with relieving (standard) without relieving
<b>Nominal flow</b>	see FLOW DIAGRAMS (pag. 3/1.20.03)
<b>Fluid</b>	compressed air
<b>Pressure gauge</b>	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

<b>MX</b>	<b>2</b>	<b>-</b>	<b>3/8</b>	<b>-</b>	<b>R</b>	<b>0</b>	<b>0</b>	<b>4</b>
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<b>MX</b>	SERIES
<b>2</b>	SIZE: 2 = G3/8 - G1/2 - G3/4 3 = G3/4 - G1
<b>3/8</b>	PORTS: 3/8 = G3/8 1/2 = G1/2 3/4 = G3/4 1 = G1
<b>R</b>	TYPER OF REGULATOR: R = pressure regulator M = Manifold pressure regulator (MX2 - G1/2 only)
<b>0</b>	OPERATING PRESSURE (1 bar = 14,5 psi) 0 = 0,5 + 10 bar (standard) 4 = 0 + 4 bar 7 = 0,5 + 7 bar (MX2 only)
<b>0</b>	DESIGN TYPE: 0 = relieving (standard) 1 = without relieving
<b>4</b>	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)

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)

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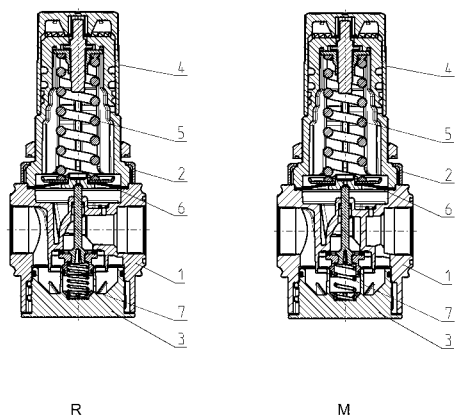
TREATMENT

## Pressure regulators Series MX - materials

New

R = pressure regulator

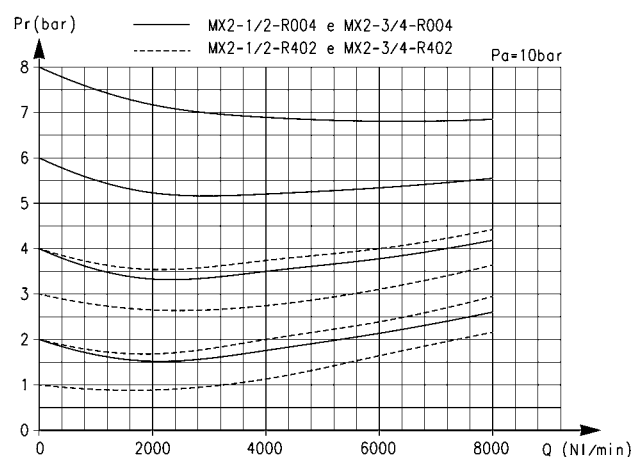
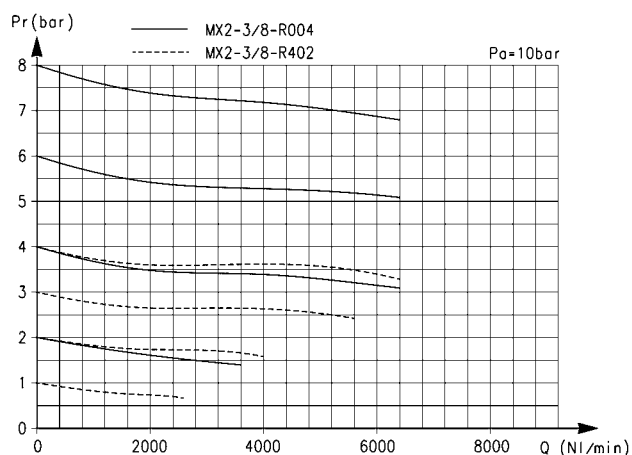
M = Manifold pressure regulator



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

## MX2 FLOW DIAGRAMS

New



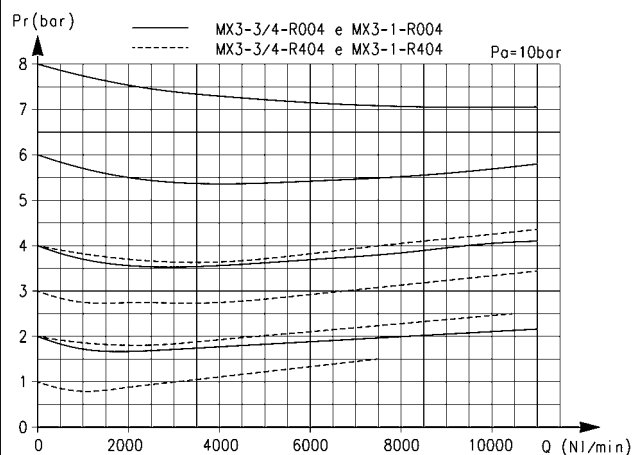
$P_r$  = Regulated pressure  
 $Q$  = Flow

$P_a$  = Inlet pressure

$P_r$  = Regulated pressure  
 $Q$  = Flow

$P_a$  = Inlet pressure

## MX3 FLOW DIAGRAM



$P_r$  = Regulated pressure  
 $Q$  = Flow

$P_a$  = Inlet pressure

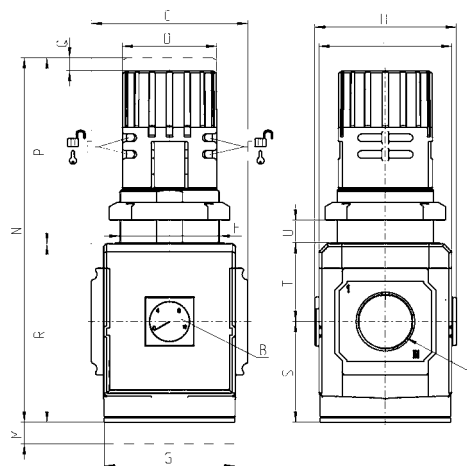
## Pressure regulators Series MX - dimensions

New



PR01 = regulator without  
relieving  
PR02 = regulator with  
relieving

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

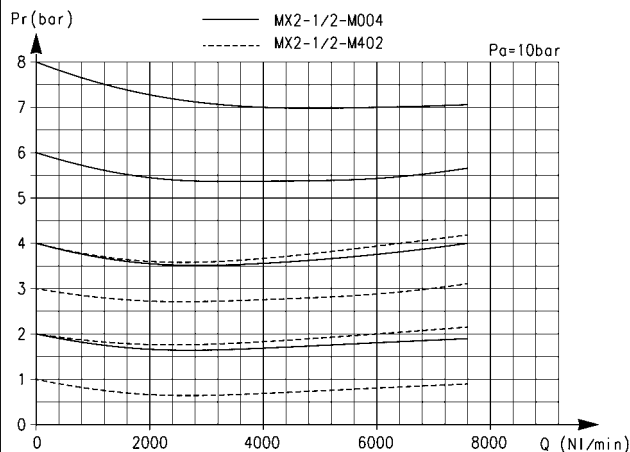


Mod.	A	B (bar)	C	D	E	F	G	H	I	M	N	P	Q	R	S	T	U	Weight (Kg)
<b>MX2-3/8-R004</b>	G3/8	0 ÷ 12	70	45	Ø 4	M47x1,5	70	74,5	68	45	166	78	5	88	50,5	37,5	0 ÷ 13	0.6
<b>MX2-1/2-R004</b>	G1/2	0 ÷ 12	70	45	Ø 4	M47x1,5	70	74,5	68	45	166	78	5	88	50,5	37,5	0 ÷ 13	0.6
<b>MX2-3/4-R004</b>	G3/4	0 ÷ 12	70	45	Ø 4	M47x1,5	70	74,5	68	45	166	78	5	88	50,5	37,5	0 ÷ 13	0.6
<b>MX3-3/4-R004</b>	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
<b>MX3-1-R004</b>	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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TREATMENT

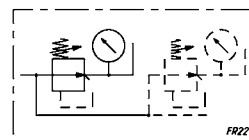
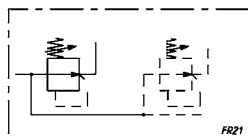
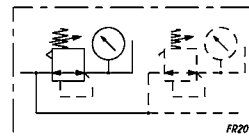
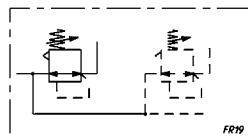
## MANIFOLD REGULATOR - FLOW DIAGRAM and PNEUMATIC SYMBOLS



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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TREATMENT

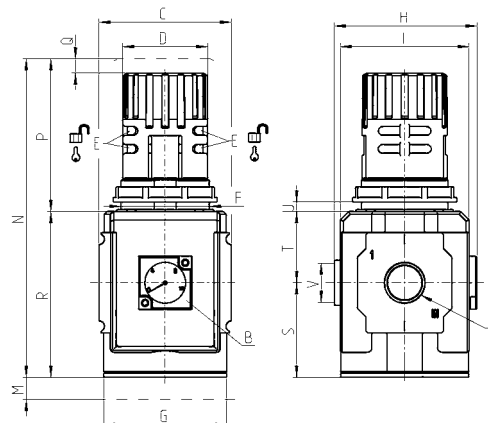
## MANIFOLD pressure regulator Series MX - dimensions



The picture on the left side shows that it is possible to assembly a certain number 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 until 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