# **Pressure Regulators Series MX**

Standard Regulators MX2 ports: 3/8", 1/2", 3/4" NPTF - MX3 ports: 3/4", 1" NPTF Manifold mount design: 1/2" NPTF (MX2 only) Innovative modular clamping system Available with built-in pressure gauges or with

Reliable and repeatable set-points of the secondary reduced pressure ensures performance optimization and energy saving. Available in 2 standard spring options for regulated pressure ranges. 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 appeals to a broad spectrum of markets and applications because of the savings realized in installation time, space requirements and total cost.

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.



- » Low set-point variance, or hysteresis
- » Lockable knob with adjustment stop
- Tamper-proof system via slots in handle offers a fully lockable regulator
- » Integral return exhaust (relieving)
- » Available as Manifold regulator, non-cascading

GENERAL DATA	
Construction	modular, compact, diaphragm type
Materials	see TABLE OF MATERIALS
Ports	3/8" - 1" NPTF
Mounting	vertical in-line wall-mounting (by means of clamps) panel mouting
Operating temperature	-5°C - 50°C at 16 bar with Dew Point of air at least 2° C (4° F) below the min working temperature, (23 F - 122 F @ 232 psi, up to 140 F MAX at 145 psi ) -5°C - 60°C at 10 bar with Dew Point of air at least 2° C (4° F) below the min working temperature
Inlet pressure	0 - 16 bar (0 - 232 psi )
Outlet pressure	0,5 - 10 bar, (7 - 145 psi) or 0 - 4 bar, (0 - 60 psi)
Overpressure exhaust	with relieving or without relieving
Nominal flow	see FLOW DIAGRAMS
Fluid	compressed air
Pressure gauge	version with built-in pressure gauge or version with ports) available standard on all units



CODIN	IG EXAMPLE
MX	2 - 3/8 - R 0 0 4 TF
MX	SERIES
2	SIZE: 2 = 3/8" - 1/2" - 3/4" 3 = 3/4" - 1"
3/8	PORTS: 3/8 = 3/8 1/2 = 1/2 3/4 = 3/4 1 = 1
R	TYPER OF REGULATOR: R = pressure regulator M = Manifold pressure regulator (MX2 - 1/2" NPTF only)
0	OPERATING PRESSURE (1 bar = 14,5 psi) 0 = 0,5 - 10 bar (7.25 - 145 psi) 4 = 0 - 4 bar (0 - 58 psi) 7 = 0,5 - 7 bar (MX2 only) (7.25 - 103 psi)
0	DESIGN TYPE: 0 = relieving 1 = without relieving
4	PRESSURE GAUGE: 0 = without pressure gauge (with threaded port for gauges) 2 = with built-in pressure gauge 0-6 bar and working pressure 0 - 4 bar 3 = with built-in pressure gauge 0-10 bar and working pressure 0 - 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 bar and working pressure 0,5 - 10 bar
TF	TF = NPTF ports blank = BSP ports

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)

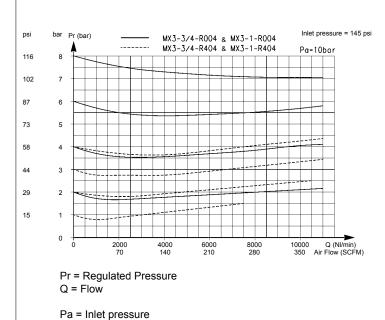
М

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

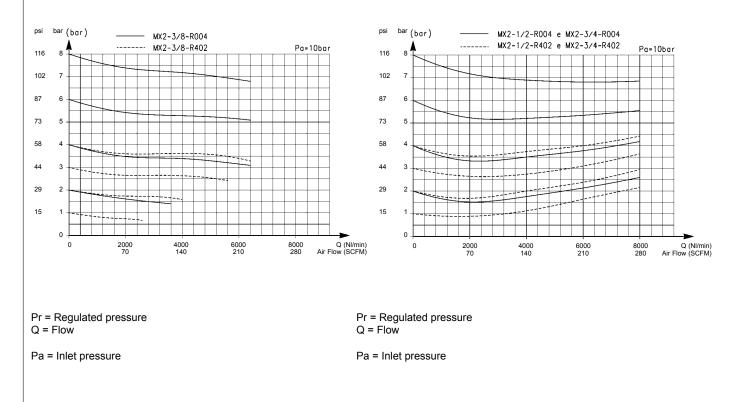
3

R

## MX3 FLOW DIAGRAMS

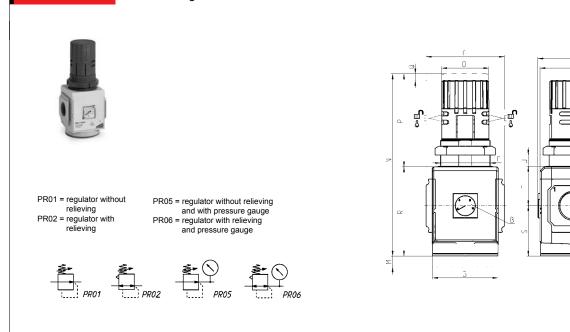


#### MX2 FLOW DIAGRAMS





#### Pressure regulators Series MX - dimensions



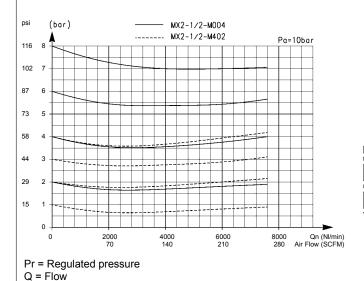
## DIMENSIONS (in inches) Mod ^

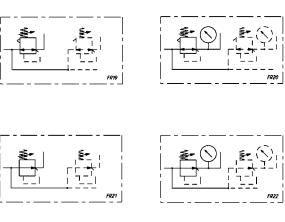
																		Weight
Mod.	Α	В	С	D	Е	F	G	н	1	М	Ν	Р	Q	R	S	Т	U	(kg)
MX2-3/8-R004TF	3/8	0-12 bar	2.756	1.772	Ø 5/32"	M47x1.5	2.756	2.933	2.677	1.772	6.535	3.071	0.197	3.465	1.988	1.476	0-13	0.6
MX2-1/2-R004TF	1/2	0-12 bar	2.756	1.772	Ø 5/32"	M47x1.5	2.756	2.933	2.677	1.772	6.535	3.071	0.197	3.465	1.988	1.476	0-13	0.6
MX2-3/4-R004TF	3/4	0-12 bar	2.756	1.772	Ø 5/32"	M47x1.5	2.756	2.933	2.677	1.772	6.535	3.071	0.197	3.465	1.988	1.476	0-13	0.6
MX3-3/4-R004TF	3/4	0-12 bar	3.524	2.126	Ø 5/32"	M57x1.5	2.953	3.189	2.992	1.772	8.110	4.094	0.197	4.016	2.264	1.752	0-20	1
MX3-1-R004TF	1	0-12 bar	3.524	2.126	Ø 5/32"	M57x1.5	2.953	3.189	2.992	1.772	8.110	4.094	0.197	4.016	2.264	1.752	0-20	1



Pa = Inlet pressure

# MANIFOLD REGULATOR - FLOW DIAGRAM and PNEUMATIC SYMBOLS





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

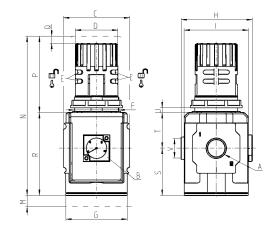
FR22 = Manifold regulator without relieving and with manometer

#### 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.



DIMENSIONS (in inches)																			
Mod.	А	в	С	D	Е	F	G	н	I	М	Ν	Р	Q	R	S	т	U	v	Weight (kg)
MX2-1/2-M004	1/2	0-12 bar	2.756	1.772	5/32"	M47x1.5	2.756	2.972	2.677	1.772	6.535	3.071	0.197	3.465	1.988	1.476	0-13	G 1/2	0.6

