

Filter-Regulators Series MX

Ports 3/8" - 1" NPTF

MX2 ports: 3/8", 1/2", 3/4" NPTF - MX3 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, automatic, depressurizing and ported. 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 | 3/8" - 1" NPTF |
| Condensate capacity | MX3: 85 cc, (approx. 3 oz.), MX2: 55 cc (approx. 1.9 oz.) |
| Mounting | vertical in-line wall-mounting (by means of clamps) panel mounting |
| 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) |
| Porosity of filtering element | 25 µm 5 µm |
| Draining of condensate | manual, automatic, depressurizing and ported |
| 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 |

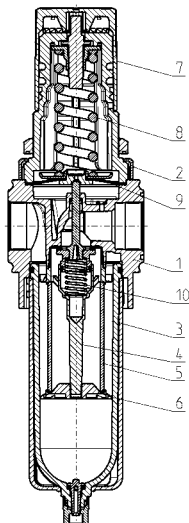
CODING EXAMPLE

| | | | | | | | | | | |
|----|---|---|-----|---|----|---|---|---|---|----|
| MX | 2 | - | 3/8 | - | FR | 0 | 0 | 0 | 4 | TF |
|----|---|---|-----|---|----|---|---|---|---|----|

| | |
|------------|--|
| MX | SERIES |
| 2 | SIZE: 2 = 3/8" - 1/2" - 3/4" 3 = 3/4" - 1" |
| 3/8 | PORT: 3/8 = 3/8 1/2 = 1/2 3/4 = 3/4 1 = 1 |
| 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 3 = automatic drain 5 = depressuring drain, filtered orifice 8 = without drain, with port G1/8 |
| 0 | OPERATING PRESSURE: 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) |
| 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 |
| TF | TF = NPTF ports blank = BSP ports |

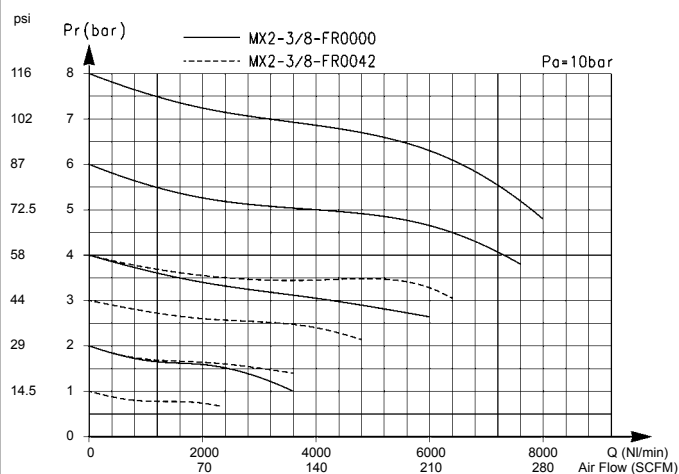
For the assembly of a single component with fixing flanges or wall-mounting, see the section "FRL Series MX Assembled"

Filter-regulators Series MX - materials



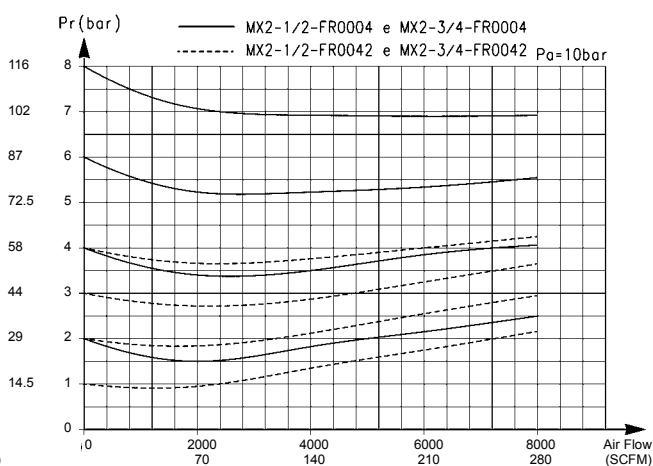
| PARTS | MATERIALS |
|-----------------------------------|-------------------------|
| 1 = Body | Aluminium |
| 2 = Covering | Polyacetal |
| 3 = Bowl with technopolymer cover | Polycarbonate/Polyamide |
| 4 = Valve guide | Polyacetal |
| 5 = Filtering element | Polyethylene |
| 6 = Separation deflector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

MX2 FLOW DIAGRAMS



Pr = Regulated pressure
Q = Flow

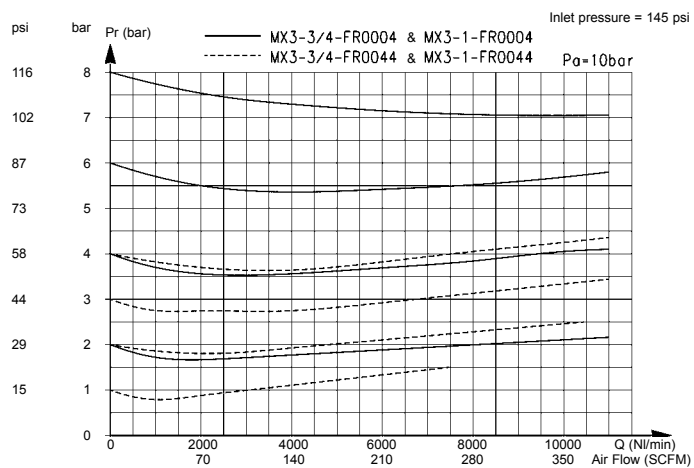
Pa = Inlet pressure



Pr = Regulated pressure
Q = Flow

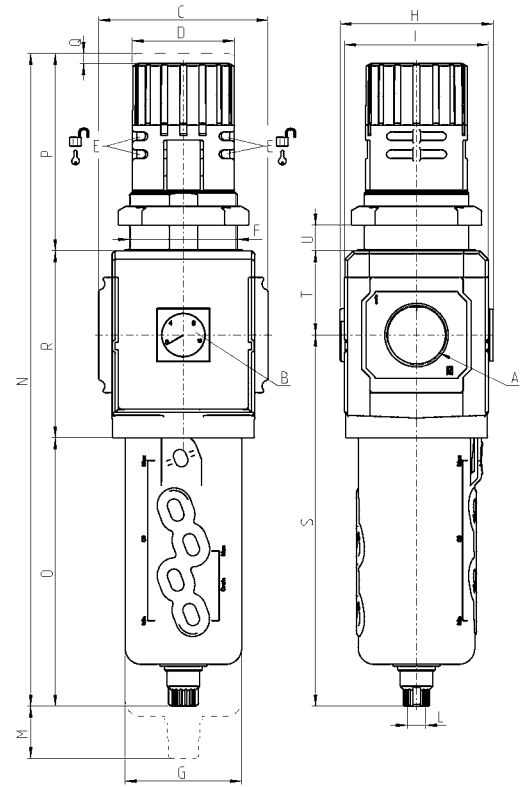
Pa = Inlet pressure

MX3 FLOW DIAGRAMS



Pr = Regulated Pressure
Q = Flow
Pa = Inlet pressure

Filter-regulators Series MX - dimensions



DIMENSIONS (in inches)

| Mod. | A | B | C | D | E | F | G | H | I | L | M | N | O | P | Q | R | S | T | U | Weight (kg) |
|------------------|-----|----------|-------|-------|--------|---------|-------|-------|-------|-----|-------|--------|-------|-------|-------|-------|-------|-------|------|-------------|
| MX2-3/8-FR0004TF | 3/8 | 0-12 bar | 2.756 | 1.772 | Ø 5/32 | M47x1.5 | 2.185 | 2.933 | 2.677 | 1/8 | 2.598 | 11.417 | 5.000 | 3.071 | 0.197 | 3.346 | 6.870 | 1.476 | 0-16 | 0.8 |
| MX2-1/2-FR0004TF | 1/2 | 0-12 bar | 2.756 | 1.772 | Ø 5/32 | M47x1.5 | 2.185 | 2.933 | 2.677 | 1/8 | 2.598 | 11.417 | 5.000 | 3.071 | 0.197 | 3.346 | 6.870 | 1.476 | 0-16 | 0.8 |
| MX2-3/4-FR0004TF | 3/4 | 0-12 bar | 2.756 | 1.772 | Ø 5/32 | M47x1.5 | 2.185 | 2.933 | 2.677 | 1/8 | 2.598 | 11.417 | 5.000 | 3.071 | 0.197 | 3.346 | 6.870 | 1.476 | 0-16 | 0.8 |
| MX3-3/4-FR0004TF | 3/4 | 0-12 bar | 3.524 | 2.126 | Ø 5/32 | 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 | 0-20 | 1.3 |
| MX3-1-FR0004TF | 1 | 0-12 bar | 3.524 | 2.126 | Ø 5/32 | 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 | 0-20 | 1.3 |