

# Series M pressure microregulators

Ports G1/8, G1/4



- » Versions with calibrated or blocked regulators are available
- » Versions with certified diaphragms and seals materials are available on request

Series M pressure regulator is available with G1/8 and G1/4 ports. Its design incorporates a diaphragm and relieving so as to allow decremental adjustments as well.

Microregulators are available with different regulation types: non-relieving, very sensitive self-relieving (through a light air leak) and VS (valve with fast draining).

The VS version is used when a regulator should be inserted between the valve and cylinder, or capacity, without any negative influence on the exhaust.

### GENERAL DATA

Construction	diaphragm type
Materials	brass body, stainless steel spring, NBR O-ring
Ports	G1/8 - G1/4
Weight	Kg 0.235
Pressure gauge ports	G1/8
Mounting	in-line or panel mounting (in any position)
Operating temperature	$-5^{\circ}$ C $\div$ $50^{\circ}$ C (with the dew point of the fluid lower than $2^{\circ}$ C at the min. working temperature)
Inlet pressure	0 ÷ 16 bar
Outlet pressure	0.5 ÷ 10 bar (standard) 0.5 ÷ 2 bar 0.5 ÷ 4 bar 0.5 ÷ 7 bar
Nominal flow	see FLOW DIAGRAMS on the following pages
Secondary pressure relieving	with relieving (standard) without relieving
Fluid	compressed air



#### **CODING EXAMPLE**

0 04

SERIES М

SIZE 0

PORTS: 04 08 = G1/8 04 = G1/4

REGULATOR R

OPERATING PRESSURE: T

0 = 0.5 ÷ 10 bar (standard)

 $1 = 0.5 \div 4 \text{ bar}$   $2 = 0.5 \div 2 \text{ bar}$   $7 = 0.5 \div 7 \text{ bar}$ 

T = calibrated

B = locked \*

DESIGN TYPE: 0 0 = self relieving

1 = non relieving

5 = relieving with precise setting

PRESSURE GAUGE 2

= without pressure gauge (standard)

1 = with pressure gauge 0-2.5 with working pressure 0.5 ÷ 2 bar

2 = with pressure gauge 0-6 with working pressure 0.5  $\div$  4 bar 3 = with pressure gauge 0-10 with working pressure 0.5  $\div$  7 bar

4 = with pressure gauge 0-12 with working pressure  $0.5 \div 10$  bar

REGULATION TYPE: VS

= without high relief flow (standard) VS = high relief flow

\* NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE REGULATION TYPE ADD THE INLET PRESSURE "  $\blacksquare$ " AND THE OUTLET PRESSURE "  $\blacksquare$ "

INLET PRESSURE:

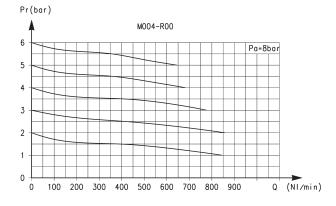
= enter the SUPPLY pressure value

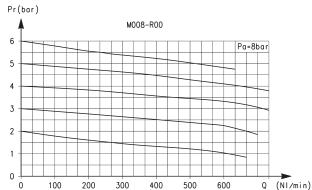
OUTLET PRESSURE:

= enter the OUTLET pressure value for the LOCKED regulator or the maximum value of the ADJUSTABLE pressure for the CALIBRATED regulator

Example of a calibrated regulator with Inlet Pressure = 6.3 bar and Outlet Pressure = 4.5 bar Complete part number: M04-RT0-6.3-4.5

#### **FLOW DIAGRAMS**





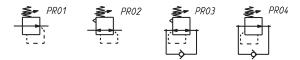
\*\* the pressure gauges are supplied disassembly mod. M043-P..

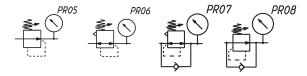
Flow diagram for models: M004-R00

Pa = Inlet pressure (bar) Pr = Regulated pressure (bar) Qn = Flow (Nl/min)

Flow diagram for models: M008-R00 Pa = Inlet pressure (bar) Pr = Regulated pressure (bar) Qn = Flow (Nl/min)

#### **PNEUMATIC SYMBOLS**





PR01 = reg. without relieving

PR02 = reg. with relieving

PR03 = reg. with relieving and by-pass valve

PRO4 = reg. without relieving with by-pass valve

PR05 = reg. without relieving with pressure gauge

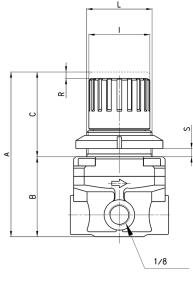
PR06 = reg. with relieving and pressure gauge

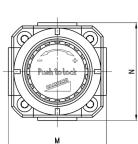
PRO7 = reg. with relieving, by-pass valve and pressure gauge

PR08 = reg. without relieving with by-pass valve and pressure gauge

## Series M pressure microregulator







DIMENSIONS													
Mod.	Α	В	С	F	G	-1	L	М	N	R	S	U	
M008-R00	76	37	39	10	27	28	M30x1,5	45	45	3	0 ÷ 6	G1/8	
M004-R00	76	37	39	10	27	28	M30x1,5	45	45	3	0 ÷ 6	G1/4	
M008-R01-E-0X1	76	37	39	10	27	28	M30x1,5	45	45	3	0 ÷ 6	G1/8	
M004-R01-E-0X1	76	37	39	10	27	28	M30x1,5	45	45	3	0 ÷ 6	G1/4	



**€** CAMOZZI