

Ports with interchangeable cartridges: threaded (1/8, 1/4, 3/8) or integrated with super-rapid fitting for tube with \emptyset 6, 8 and 10 mm Versions: single, combined with other functions, Manifold





- » Minimal pressure decreases
- » Knob with position lock
- » Tamper-proof system (lockable regulator)
- » With or without overpressure exhaust (relieving)
- » Available versions: Manifold, with by-pass valve, calibrated, locked.

Thanks to the flexibility given by the connection inserts, the regulator can be adjusted within a treatment group so that the regulation knob is in the front or lower position. Once the regulation is locked, it is possible to insert as many security locks through the 4 holes.

The by-pass valve allows the fast exhaust of the air introduced.

The different springs enable a more accurate adjustment of the pressure.

The Series MD offers multi-sector solutions that ensure saving in terms of installation time, space and costs. Thanks to the solution adopted for the pneumatic connection, it is possible to equip the same element with interchangeable cartridges that can either be threaded, or with an integrated super-rapid fitting, both types available in different sizes. Intermediate cartridges can be also integrated to join multiple functions or with derivation to draw air.

GENERAL DATA

Overpressure exhaust

 Construction
 modular, compact with pre-formed diaphragm

 Materials
 see TABLE OF MATERIALS on the following page

Ports with interchangeable cartridges: 1/8, 1/4 and 3/8 threaded or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm

Fixing in-line

wall-mounting by means of through holes in the body or with a support bracket;

panel mounting

Operating temperature -5°C ÷ 50°C up to 16 bar

Inlet pressure 0 ÷ 16 bar

Outlet pressure 0.5 ÷ 2 bar 0.5 ÷ 4 bar 0.5 ÷ 7 bar 0.5 ÷ 10 bar

with relieving

without relieving

Nominal flow see FLOW DIAGRAMS on the following pages

Fluid compressed air

CODING EXAMPLE

	MD	1	_	R	Т	0	0	-	1/4	-		-	•	
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MD	SERIES CONTRACTOR OF THE PROPERTY OF THE PROPE
1	51ZE: L = 42 mm
R	TYPE OF REGULATOR: R = pressure regulator M = Manifold pressure regulator
Т	DPERATING PRESSURE (1 bar = 14,5 psi): 0 = 0.5 ÷ 10 bar 2 = 0.5 ÷ 2 bar 4 = 0.5 ÷ 4 bar 7 = 0.5 ÷ 7 bar 6 = 0.5 ÷ 7 bar 6 = 0.5 ÷ 8 bar 8 = locked **
0	DESIGN TYPE: 3 = with relieving L = without relieving 2 = with relieving and by-pass valve 3 = with relieving, with by-pass valve
0	PRESSURE GAUGE: D = without pressure gauge (with 1/8 port)
1/4	PORTS (IN - OUT)*: = without cartridges 1/8 = 61/8 1/4 = 61/8 3/8 = 63/8 5 = tube Ø6 8 = tube Ø6 10 = tube Ø10 * NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. example: MD1-R020-1/4-10
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** NOTE: IF THE REGULATOR IS CALIBRATED OR LOCKED, AFTER THE PORTS ADD THE INLET PRESSURE "■" AND THE OUTLET PRESSURE "●"

INLET PRESSURE:
■ = enter the SUPPLY pressure value

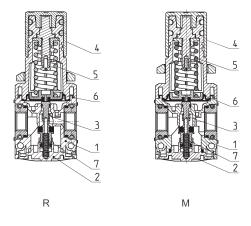
OUTLET PRESSURE:

e 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: MD1-RT00-1/4-6.3-4.5

Pressure regulators Series MD - materials

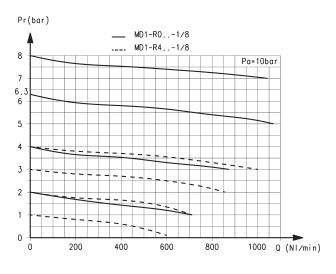
R = pressure regulator M = Manifold pressure regulator

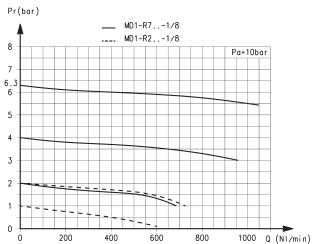


PARTS	MATERIALS
1 = Body	Polyamide
2 = Valve holder plug	Polyamide
3 = Poppet	Brass
4 = Knob	Polyamide
5 = Upper spring	Zinc-plated steel
6 = Diaphragm	NBR
7 = Lower spring	Stainless steel
Seals	NBR

FLOW DIAGRAMS for regulators with working pressures of 2, 4, 7, 10 bar







Ports with interchangeable 1/8 threaded cartridges

Pr = Regulated pressure (bar)

Q = Flow (Nl/min)

Pa = Inlet pressure (bar)

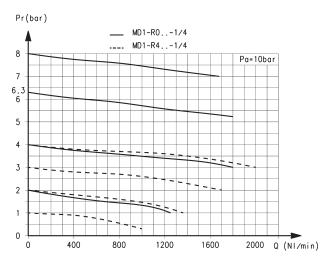
Ports with interchangeable 1/8 threaded cartridges

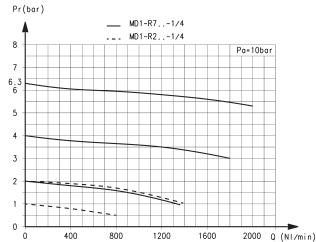
Pr = Regulated pressure (bar)

Q = Flow (Nl/min)

Pa = Inlet pressure (bar)

FLOW DIAGRAMS for regulators with working pressures of 2, 4, 7, 10 bar





Ports with interchangeable 1/4 threaded cartridges

Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

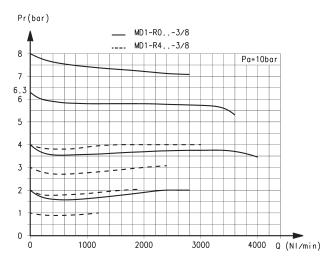
Ports with interchangeable 1/4 threaded cartridges

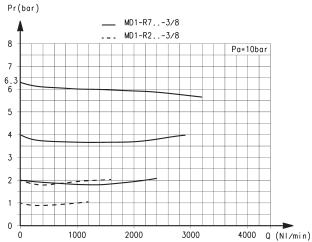
Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

FLOW DIAGRAMS for regulators with working pressures of 2, 4, 7, 10 bar





Ports with interchangeable 3/8 threaded cartridges

Pr = Regulated pressure (bar) Q = Flow (Nl/min)

Pa = Inlet pressure (bar)

Ports with interchangeable 3/8 threaded cartridges

Pr = Regulated pressure (bar)

Q = Flow (Nl/min)

Pa = Inlet pressure (bar)

Series MD pressure regulators - dimensions

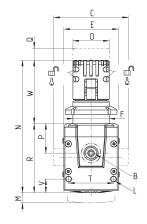


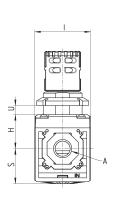
PR01 = regulator without relieving

PR02 = regulator with relieving

PR03 = regulator with relieving and by-pass valve

PR04 = regulator without relieving and with by-pass valve









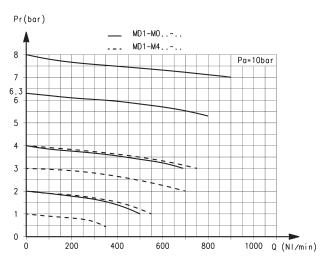


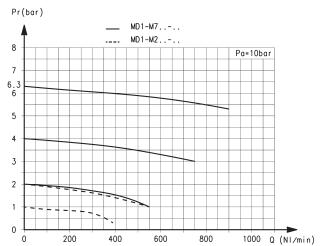


Mod.	Α	В	С	D	Е	F	Н	- 1	L	М	N	Р	Q	R	S	T	U	V	W	Weight (Kg)
MD1-R000	-	G1/8	42	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2
MD1-R000-1/8	G1/8	G1/8	42	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2
MD1-R000-1/4	G1/4	G1/8	42	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2
MD1-R000-3/8	G3/8	G1/8	42	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2
MD1-R000-6	Ø6	G1/8	47	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2
MD1-R000-8	Ø8	G1/8	62	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2
MD1-R000-10	Ø10	G1/8	62	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2

FLOW DIAGRAMS for Manifold regulators with working pressures of 2, 4, 7, 10 bar







Pr = Regulated pressure (bar)

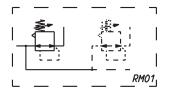
Pa = Inlet pressure (bar)

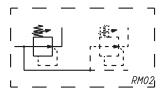
Q = Flow(Nl/min) Q = Flow(Nl/min)

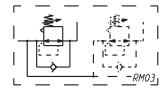
Pa = Inlet pressure (bar)

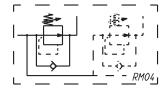
Pr = Regulated pressure (bar)

MANIFOLD REGULATOR - PNEUMATIC SYMBOLS









RM01 = Manifold regulator with relieving

RM02 = Manifold regulator without relieving

RM03 = Manifold regulator with relieving and by-pass valve

RM04 = Manifold regulator without relieving,

with by-pass valve

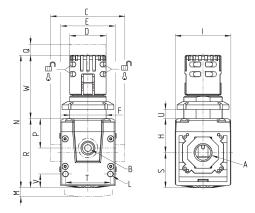
VIES MD REGULATORS

Series MD pressure regulators - dimensions



With the Manifold version it is possible to realize a battery of regulators which are fed by a single source of inlet pressure.
Each regulator can be set up at any pressure (lower than the inlet pressure). The front or rear connection of each regulator allows to draw air at the pressure value set on the regulator itself.

There is no limit to the number of regulators that can be connected.



Mod.	A	В	С	D	E	F	Н	I	L	M	N	P	Q	R	S	Т	U	V	W	Weight (Kg)
MD1-M000	-	G1/8	42	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	0.2