

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)
- » MANIFOLD version available
- » Version with by-pass valve available
- » Calibrated or locked versions available

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 equipped the same element with interchangeable cartridges which can be threaded or with an integrated superrapid fitting, both in different sizes. Intermediate cartridges can be also integrated to join multiple functions or with derivation to draw air.

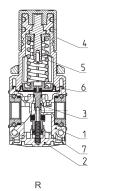
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GENERAL DAT	ΓΑ
Construction	modular, compact wiht pre-formed diaphragm
Materials	see TABLE OF MATERIALS (pag. 3/0.20.02)
Ports	With interchangeable inserts: 1/8, 1/4 and 3/8 threaded, integrated with super-rapid fitting for tube with Ø 6, 8 and 10 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 ÷ 2 bar 0 ÷ 4 bar 0.5 ÷ 7 bar 0.5 ÷ 10 bar
Overpressure exhaust	with relieving (standard) without relieving
Nominal flow	see FLOW DIAGRAMS (pag. 3/0.20.03 and 3/0.20.05)
Fluid	compressed air

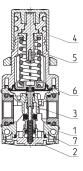


CODI	NG EXAMPLE													
MD	1 - R T 0 0 - 1/4 - = - •													
MD	SERIES													
1	SIZE: 1 = G1/8, G1/4, G3/8, Ø6, Ø8, Ø10													
R	TYPER OF REGULATOR: R = pressure regulator M = Manifold pressure regulator													
Т	OPERATING PRESSURE (1 bar = 14,5 psi): 0 = 0,5 + 10 bar 2 = 0 + 2 bar 4 = 0 + 4 bar 7 = 0.5 + 7 bar T = calibrated ** B = locked **													
0	DESIGN TYPE: 0 = with relieving 1 = without relieving, VS version 3 = without relieving, VS version													
0	PRESSURE GAUGE: 0 = without pressure gauge (with 1/8 port)													
1/4	PORTS (IN - OUT)*: = without ports 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10 * NOTE: if the inlet port is different from the outlet port, both values shall be indicated. Example: MD1-R000-1/8-1/4													
	** NB: 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: • = 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



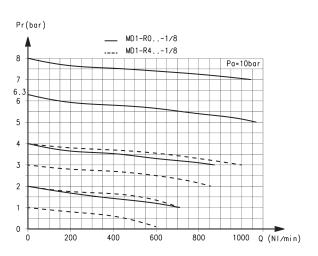


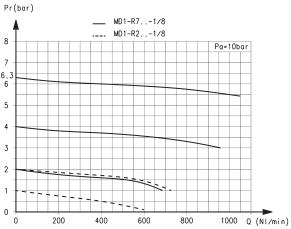
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PARTS	MATERIALS	
1 = Body	Polyamide	
2 = Valve holder plug	Polyamide	
3 = Poppet	Brass	
4 = Knob	Polyamide	
5 = Upper spring	Zinc-plated steel	
6 = Diaphragm	NBR	
7 = Lower spring	Stainless steel	
Seals	NBR	



FLOW DIAGRAMS FOR MD1 PRESSURE REGULATORS - G1/8 ports





Pr = Regulated pressure

Q = Flow

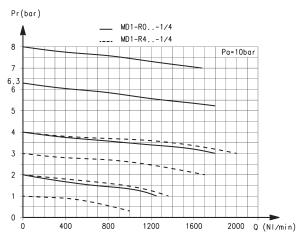
Pa = Inlet pressure

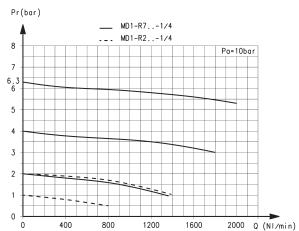
Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

FLOW DIAGRAMS FOR MD1 PRESSURE REGULATORS - G1/4 ports





Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

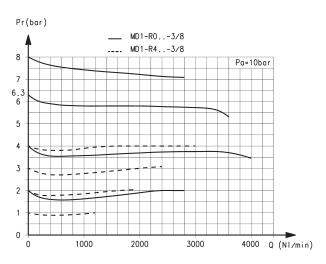
Pr = Regulated pressure

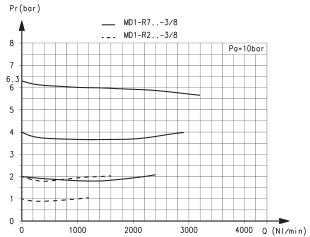
Q = Flow

Pa = Inlet pressure



FLOW DIAGRAMS FOR MD1 PRESSURE REGULATORS - G3/8 ports





Pr = Regulated pressure Q = Flow

Pa = Inlet pressure



Pr = Regulated pressure Q = Flow

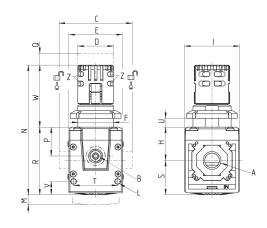
Pa = Inlet pressure



PR03 = regulator with relieving and by-pass valve
PR04 = regulator without relieving and with by-pass valve



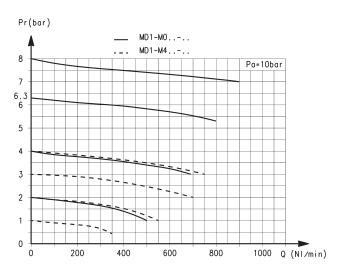


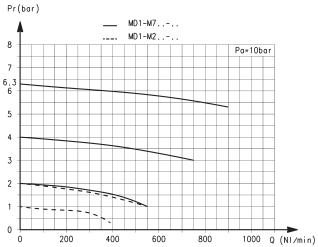


MD1-R000 - G1/8 42 Ø28 42 M28X1,5 26.2 43 Ø4 16 102 22.7 4 53.2 27 34.6 0 ÷ 11 10.5 48.8 Ø3.2 0.2 MD1-R000-1/8 G1/8 G1/8 42 Ø28 42 M28X1,5 26.2 43 Ø4 16 102 22.7 4 53.2 27 34.6 0 ÷ 11 10.5 48.8 Ø3.2 0.2 MD1-R000-1/4 G1/4 G1/8 42 Ø28 42 M28X1,5 26.2 43 Ø4 16 102 22.7 4 53.2 27 34.6 0 ÷ 11 10.5 48.8 Ø3.2 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 Ø3.2 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 Ø3.2 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 Ø3.2 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 Ø3.2 0.2	Mod.	Α	В	С	D	Е	F	Н	1	L	M	Ν	Р	Q	R	S	T	U	V	W	Z	Weight (Kg)
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 Ø3.2 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 Ø3.2 0.2	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	Ø3.2	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 Ø3.2 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	Ø3.2	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	Ø3.2	0.2
ND4 P000 0 00 04/0 47 000 40 N00V4 5 000 40 004 40 400 007 4 500 07 040 0 44 40 5 400 000	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	Ø3.2	0.2
MD1-RUUU-0 Ø6 G1/8 4/ Ø28 42 M28X1,5 26.2 43 Ø4 16 102 22.7 4 53.2 2/ 34.6 0÷11 10.5 48.8 Ø3.2 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	Ø3.2	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 Ø3.2 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	Ø3.2	0.2
MD1-R000-10 Ø10 G1/8 67 Ø28 42 M28X1,5 26.2 43 Ø4 16 102 22.7 4 53.2 27 34.6 0÷11 10.5 48.8 Ø3.2 0.2	MD1-R000-10	Ø10	G1/8	67	Ø28	42	M28X1,5	26.2	43	Ø4	16	102	22.7	4	53.2	27	34.6	0 ÷ 11	10.5	48.8	Ø3.2	0.2



FLOW DIAGRAMS FOR MD1 PRESSURE REGULATORS - MANIFOLD





Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

Pr = Regulated pressure Q = Flow

Pa = Inlet pressure

Series MD pressure regulators - dimensions



FR19 = Manifold regulator with relieving and without pressure gauge

FR21 = Manifold regulator without relieving and without pressure gauge

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.

