



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 Modular assembly

Bowl with technopolymer cover and bayonet-type mounting



- » Filtering between25 µm or 5 µm
- » Minimum pressure drops
- » Knob with position lock
- » Tamper-proof system (lockable regulator)
- » Bowl locking system reducing the risk of accidents

Series MD filter-regulators integrate filter and pressure reducer in one unit, thus reducing their dimensions.

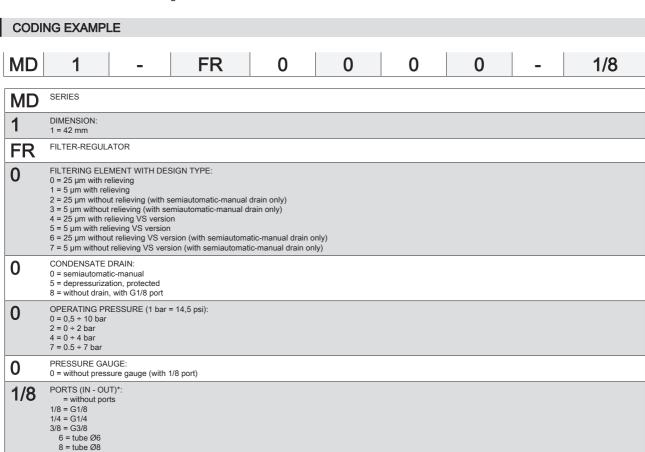
The by-pass valve allows the fast exhaust of the air introduced. The

different springs enable a more accurate

adjustment of the pressure.

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.

GENERAL DATA	
Construction	modular, compact with filtering element in HDPE
Materials	see TABLE OF MATERIALS (pag. 3/0.30.02)
Ports	with interchangeable cartridges: 1/8, 1/4 and 3/8 threaded or integrated with super-rapid fitting for tube with diameters of 6, 8 and 10 mm
Condensate capacity	24 cc
Mounting	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 (with the dew point of the fluid lower than 2°C at the min. working temperature)
Porosity of the filtering element	25 μm (standard) 5 μm
Condensate drain	semi-automatic manual (standard); depressurization, protected; without drain with G1/8 port
Quality of delivered air according to ISO 8573-1 2010 standard	Class 6.8.4 with 5 µm filtering element Class 7.8.4 with 25 µm filtering element
Operating pressure	0,3 ÷ 16 bar
Nominal flow	see FLOW DIAGRAMS (pag. 3/0.30.03)
Fluid	compressed air

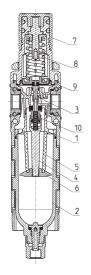




10 = tube Ø10

Series MD filter-regulators - materials

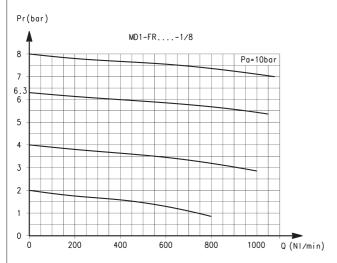
 * NOTE: if the inlet port is different from the outlet port, both values shall be indicated. Example: MD1-FR0000-1/8-1/4

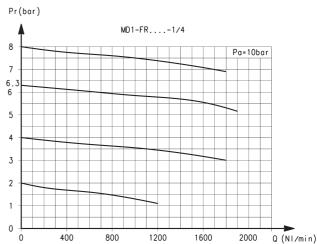


PARTS	MATERIALS	
1 = Body	Polyamide	
2 = Tank	Polycarbonate	
3 = Poppet	Brass	
4 = Valve guide	Polyacetal	
5 = Filtering element	Polyethylene	
6 = Separation deflector	Polyacetal	
7 = Knob	Polyamide	
8 = Upper spring	Zinc-plated steel	
9 = Diaphragm	NBR	
10 = Lower spring	Stainless steel	
Seals	NBR	

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FLOW DIAGRAMS





Ports with interchangeable G1/8 threaded cartridges

Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

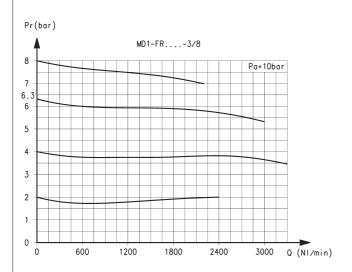
Ports with interchangeable G1/4 threaded cartridges

Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

FLOW DIAGRAMS



Ports with interchangeable G3/8 threaded cartridges

Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

PNEUMATIC SYMBOLS





















FR01 = filter-regulator with relieving and manual drain

FR02 = filter-regulator with relieving, without drain

FR11 = filter-regulator no relieving, with manual drain

FR13 = filter-regulator no relieving and by-pass valve, with manual drain

FR15 = filter-regulator without relieving, by-pass valve and manual drain

FR17 = filter-regulator without relieving and drain

FR18 = filter-reg. with relieving and automatic drain

FR23 = filter-reg. no relieving, with automatic drain

FR24 = filter-reg. with relieving, by-pass valve

and manual drain

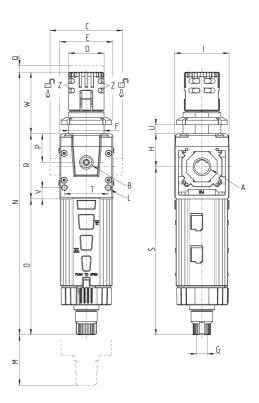
FR25 = filter-reg. with relieving and by-pass valve, no drain

FR26 = filter-reg. with relieving, by-pass valve, automatic drain

FR27 = filter-reg. without relieving and by-pass valve, with automatic drain

Series MD filter-regulators - dimensions





Mod.	Α	В	С	D	Ε	F	G	Н	- 1	L	M	N	0	Р	Q	R	S	Т	U	V	W	Z	Weight (Kg)
MD1-FR000	-	G1/8	42	Ø28	42	M28X1,5	G1/8	26.2	43	Ø4	110	208.2	107.7	22.7	4	51.7	133.2	34.6	0 ÷ 11	9	48.8	Ø3.2	0.2
MD1-FR000-1/8	G1/8	G1/8	42	Ø28	42	M28X1,5	G1/8	26.2	43	Ø4	110	208.2	107.7	22.7	4	51.7	133.2	34.6	0 ÷ 11	9	48.8	Ø3.2	0.2
MD1-FR000-1/4	G1/4	G1/8	42	Ø28	42	M28X1,5	G1/8	26.2	43	Ø4	110	208.2	107.7	22.7	4	51.7	133.2	34.6	0 ÷ 11	9	48.8	Ø3.2	0.2
MD1-FR000-3/8	G3/8	G1/8	42	Ø28	42	M28X1,5	G1/8	26.2	43	Ø4	110	208.2	107.7	22.7	4	51.7	133.2	34.6	0 ÷ 11	9	48.8	Ø3.2	0.2
MD1-FR000-6	Ø6	G1/8	47	Ø28	42	M28X1,5	G1/8	26.2	43	Ø4	110	208.2	107.7	22.7	4	51.7	133.2	34.6	0 ÷ 11	9	48.8	Ø3.2	0.2
MD1-FR000-8	Ø8	G1/8	62	Ø28	42	M28X1,5	G1/8	26.2	43	Ø4	110	208.2	107.7	22.7	4	51.7	133.2	34.6	0 ÷ 11	9	48.8	Ø3.2	0.2
MD1-FR000-10	Ø10	G1/8	67	Ø28	42	M28X1,5	G1/8	26.2	43	Ø4	110	208.2	107.7	22.7	4	51.7	133.2	34.6	0 ÷ 11	9	48.8	Ø3.2	0.2