# Series MD pressure filter-regulators



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

Bowl with technopolymer cover and bayonet-type mounting

- Filtering between
- 25 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 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.

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CAMOZZI



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	$-5^{\circ}\text{C} \div 50^{\circ}\text{C}$ up to 16 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Condensate drain	semi-automatic manual, automatic protected depressurisation, direct G1/8 exhaust
Quality of delivered air according to ISO 8573-1 2010	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

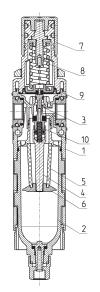


## **CODING EXAMPLE**

MD	1	_	FR	0	0	0	0	-	1/8
MD	SERIES								
1	DIMENSION: 1 = 42 mm								
FR	FILTER-REGUL	ATOR							
0	0 = 25 µm with r 1 = 5 µm with r 2 = 25 µm witho 3 = 5 µm witho 4 = 25 µm with r 5 = 5 µm with r 6 = 25 µm witho 7 = 5 µm withou	elieving out relieving * ut relieving * relieving and by-p elieving and by-p out relieving, with ut relieving, with I	pass valve ass valve by-pass valve *	ain only					
0	CONDENSATE 0 = semiautoma 5 = automatic dr 8 = direct G1/8 e	itic-manual drain rain, protected de	epressurisation						
0	OPERATING PF 0 = 0,5 ÷ 10 bar 2 = 0 ÷ 2 bar 4 = 0 ÷ 4 bar 7 = 0.5 ÷ 7 bar	RESSURE (1 bar	r = 14,5 psi):						
0	PRESSURE GA 0 = without pres	NUGE: sure gauge (with	1/8 port)						
1/8	PORTS (IN - OL = without ca 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10								

### Series MD filter-regulators - materials

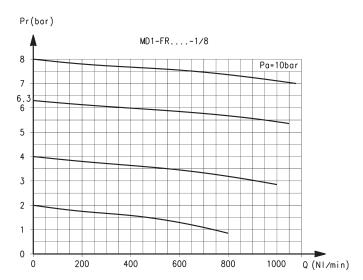
 $^{*}$  NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-FR0000-1/4-1/8

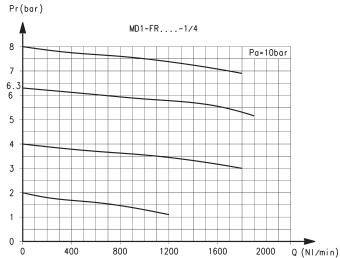


MATERIALS	
Polyamide	
Polycarbonate	
Brass	
Polyacetal	
Polyethylene	
Polyacetal	
Polyamide	
Zinc-plated steel	
NBR	
Stainless steel	
NBR	
	Polyamide Polycarbonate Brass Polyacetal Polyethylene Polyacetal Polyamide Zinc-plated steel NBR Stainless steel



#### FLOW DIAGRAMS





Ports with interchangeable G1/8 threaded cartridges

Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

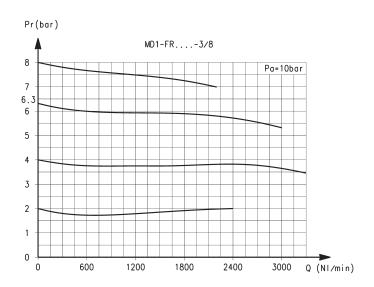
Ports with interchangeable G1/4 threaded cartridges

Pr = Regulated pressure

Q = Flow

Pa = Inlet pressure

## FLOW DIAGRAMS

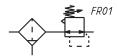


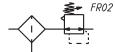
Ports with interchangeable G3/8 threaded cartridges

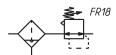
Pr = Regulated pressure Q = Flow

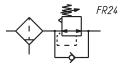


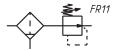
## **Pneumatic Symbols**

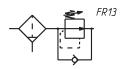


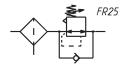


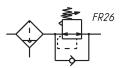












FR01 = filter-regulator with relieving and semi-automatic manual drain

FR02 = filter-regulator with relieving and direct G1/8 exhaust

FR11 = filter-regulator without relieving, with semi-automatic manual drain

FR13 = filter-regulator without relieving, with by-pass valve and semi-automatic manual drain

FR18 = filter-regulator with relieving and automatic/depressuring drain

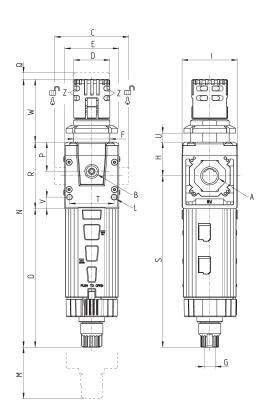
FR24 = filter-regulator with relieving, by-pass valve and semi-automatic manual drain

FR25 = filter-regulator with relieving, by-pass valve and direct G1/8 exhaust

FR26 = filter-regulator with relieving, by-pass valve and automatic/depressuring drain

#### Series MD filter-regulators - dimensions





Mod.	Α	В	С	D	Ε	F	G	Н	-1	L	М	N	0	Р	Q	R	S	Т	U	V	W	Z	Weight (Kg)
MD1-FR0000	-	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-FR0000-1/8	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-FR0000-1/4	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-FR0000-3/8	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-FR0000-6	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-FR0000-8	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-FR0000-10	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

