

# Series MD coalescing filters

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



The coalescing filter is a fine oil separator filter that removes the solids with dimensions from 0.1 to 5  $\mu$ m and oil vapours with a concentration from 0.01 to 0.1 mg/m³. For a correct fucntioning they require a pre-filtering. Given the characteristic of this filter, it is recommended to replace the filter element at least every 12 months or 8000 working hours.



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. An additional air intake, with the same characteristic of the outlet air, is available on the front side and on the rear one. This intake can be used by utilities with limited consumption.

- » High performance and high purity compressed air
- » Air quality according to ISO 8573-1:2010 standard, Classes 1.8.1 and 2.8.2
- » Visual blockage indicator
- » Condensate drain options: semi-automatic manual, automatic protected depressurisation, direct G1/8 exhaust
- » Bowl locking system reducing the risk of accidents
- » Additional air intakes with the same characteristics of the inlet air (line)

#### GENERAL DATA

Construction	modular, compact with filtering element in BOROSILICATE
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 $\emptyset$ 6, $8$ and $10$ mm
Condensate capacity	24 cm <sup>3</sup>
Fixing	vertical in-line; wall-mounting by means of through holes in the body or with a support bracket
Operating temperature	-5°C ÷ 50°C up to 16 bar
Condensate drain	semi-automatic manual, automatic protected depressurisation, direct G1/8 exhaust
Quality of delivered air according to ISO 8573-1:2010	Class 2.8.2 with 1 µm filtering element (pre-filtering with Class 6.8.4 is recommended) Classe 1.8.1 with 0.01 µm filtering element (pre-filtering with Classe 2.8.2 is recommended)
Operating pressure	0.3 ÷ 16 bar
Nominal flow	see FLOW DIAGRAMS on the following pages
Oil retain efficiency	99.80% (0.01μm) 97% (1μm)
Particles retain efficiency	99.99999% (0.01μm) 99.999% (1μm)
Fluid	compressed air

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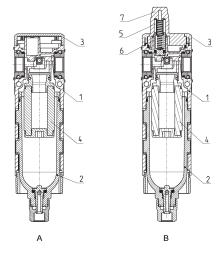




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MD	SERIES													
1	DIMENSION: 1 = 42 mm													
FC	COALESCING FILTER													
0	FILTERING ELEMENT (1 0 = 0,01 μm 1 = 1 μm	further details in th	e dedicated section):											
0	DRAINING OF CONDER  0 = semiautomatic-n  5 = automatic drain,  8 = direct G1/8 exhau	nanual drain protected depressu	ils in the dedicated sect	ion):										
0	VISUAL BLOCKAGE IND 0 = not present 1 = present	DICATOR:												
1/8	PORTS (IN - OUT)*: = without cartridg 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10	ges												
	* NOTE: if the inlet (II Example: MD1-FC0		rent from the outlet (Ol	JT) cartridge, both di	nensions shall be indi	cated.								

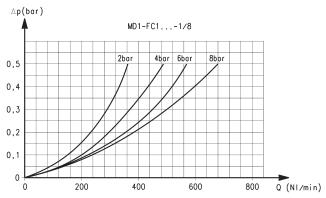
#### Series MD coalescing filters - materials

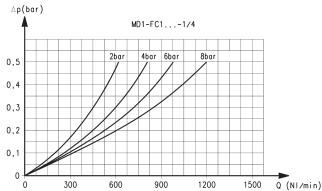
A = filter B = filter with visual blockage indicator



PARTS	MATERIALS	
1 = Body	Polyamide	
2 = Tank	Polycarbonate	
3 = Covering	Polyamide	
4 = Filtering element	Borosilicate	
5 = Upper spring	Stainless steel	
6 = Piston	Anodized aluminium	
7 = Visual blockage indicator	Polycarbonate	
Seals	NBR	

#### FLOW DIAGRAMS for models with 1 µm filtering element



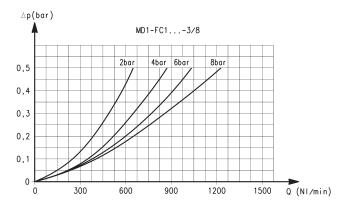


Ports with interchangeable 1/8 threaded cartridges

Δp = Pressure drop (bar) Q = Flow (Nl/min) Ports with interchangeable 1/4 threaded cartridges

Δp = Pressure drop (bar) Q = Flow (Nl/min)

#### FLOW DIAGRAM for models with 1 $\mu m$ filtering element

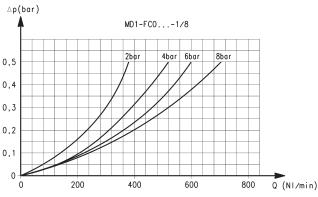


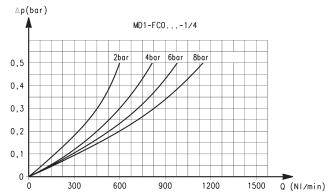
Ports with interchangeable 3/8 threaded cartridges

Δp = Pressure drop (bar) Q = Flow (Nl/min)

#### FLOW DIAGRAMS for models with 0.01 $\mu m$ filtering element





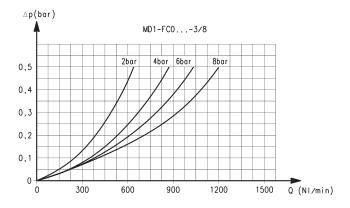


Ports with interchangeable 1/8 threaded cartridges

Δp = Pressure drop (bar) Q = Flow (Nl/min) Ports with interchangeable 1/4 threaded cartridges

Δp = Pressure drop (bar) Q = Flow (Nl/min)

#### FLOW DIAGRAM for models with 0.01 $\mu m$ filtering element



Ports with interchangeable 3/8 threaded cartridges

Δp = Pressure drop (bar) Q = Flow (Nl/min) SERIES MD COALESCING FILTERS

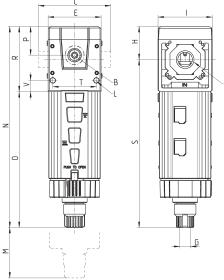
## Series MD coalescing filters - dimensions



FA01 = coalescing filter with direct G1/8 exhaust FA02 = coalescing filter with semi-automatic

manual drain

FA03 = coalescing filter with automatic/depressuring







DIMENSIONS																	
Mod.	Α	В	C	Е	G	Н	- 1	L	М	N	0	P	R	S	T	V	Weight (Kg)
MD1-FC000	-	G1/8	42	42	G1/8	26.2	43	Ø4	90	159.4	107.7	22.7	51.7	133.2	34.6	9	0.2
MD1-FC000-1/8	G1/8	G1/8	42	42	G1/8	26.2	43	Ø4	90	159.4	107.7	22.7	51.7	133.2	34.6	9	0.2
MD1-FC000-1/4	G1/4	G1/8	42	42	G1/8	26.2	43	Ø4	90	159.4	107.7	22.7	51.7	133.2	34.6	9	0.2
MD1-FC000-3/8	G3/8	G1/8	42	42	G1/8	26.2	43	Ø4	90	159.4	107.7	22.7	51.7	133.2	34.6	9	0.2
MD1-FC000-6	Ø6	G1/8	47	42	G1/8	26.2	43	Ø4	90	159.4	107.7	22.7	51.7	133.2	34.6	9	0.2
MD1-FC000-8	Ø8	G1/8	62	42	G1/8	26.2	43	Ø4	90	159.4	107.7	22.7	51.7	133.2	34.6	9	0.2
MD1-FC000-10	Ø10	G1/8	67	42	G1/8	26.2	43	Ø4	90	159.4	107.7	22.7	51.7	133.2	34.6	9	0.2

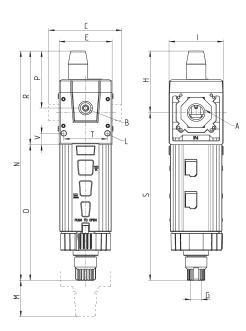
### Series MD coalescing filters with visual indicator - dimensions



FA04 = coalescing filter with direct G1/8 exhaust

and visual blockage indicator
FAO5 = coalescing filter with semi-automatic manual drain and visual blockage indicator

FA06 = coalescing filter with automatic/depressuring drain and visual blockage indicator









DIMENSIONS																	
Mod.	A	В	С	E	G	Н	1	L	М	N	0	P	R	S	T	V	Weight (Kg)
MD1-FC001	-	G1/8	42	42	G1/8	48.7	43	Ø4	90	181.9	107.7	45.2	74.2	133.2	34.6	9	0.2
MD1-FC001-1/8	G1/8	G1/8	42	42	G1/8	48.7	43	Ø4	90	181.9	107.7	45.2	74.2	133.2	34.6	9	0.2
MD1-FC001-1/4	G1/4	G1/8	42	42	G1/8	48.7	43	Ø4	90	181.9	107.7	45.2	74.2	133.2	34.6	9	0.2
MD1-FC001-3/8	G3/8	G1/8	42	42	G1/8	48.7	43	Ø4	90	181.9	107.7	45.2	74.2	133.2	34.6	9	0.2
MD1-FC001-6	Ø6	G1/8	47	42	G1/8	48.7	43	Ø4	90	181.9	107.7	45.2	74.2	133.2	34.6	9	0.2
MD1-FC001-8	Ø8	G1/8	62	42	G1/8	48.7	43	Ø4	90	181.9	107.7	45.2	74.2	133.2	34.6	9	0.2
MD1-FC001-10	Ø10	G1/8	67	42	G1/8	48.7	43	Ø4	90	181.9	107.7	45.2	74.2	133.2	34.6	9	0.2

