

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 μ 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, Class 1.8.1 and Class 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 filt	ering element in BOROSILICATE
Materials	see TABLE OF MATERIA	LS (pag. 3/0.10.02)
Ports	with interchangeable cartr tube with Ø 6, 8 and 10 m	ridges: 1/8, 1/4 and 3/8 threaded or integrated with super-rapid fitting for
Condensate capacity	24 cc	
Fixing	vertical in-line; wall-mounting by means of	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, a	automatic protected depressurisation, direct G1/8 exhaust
Quality of delivered air according to ISO 8573-1 2010		ring element (pre-filtering with Class 6.8.4 is recommended) filtering element (pre-filtering with Classe 2.8.2 is recommended)
Operating pressure	0.3 ÷ 16 bar	
Nominal flow	see FLOW DIAGRAMS (p	pag. 3/0.10.03 and 3/0.10.04)
Oil retain efficiency	99.80% (0.01µm)	97% (1µm)
Particles retain efficiency	99.99999% (0.01µm)	99.999% (1µm)
Fluid	compressed air	

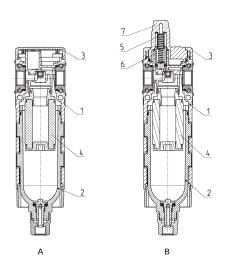


FC 0 1/8 0 0 MD SERIES MD DIMENSION: 1 = 42 mm COALESCING FILTER FC FILTERING ELEMENT: 0 0 = 0,01 μm 1 = 1 µm CONDENSATE DRAIN: 0 0 = semiautomatic-manual drain 5 = automatic drain, protected depressurisation 8 = direct G1/8 exhaust VISUAL BLOCKAGE INDICATOR: 0 0 = not present 1 = present PORTS (IN - OUT)*: = without cartridges 1/8 = G1/8 1/4 = G1/4 1/8 3/8 = G3/8 6 = tube Ø6 8 = tube Ø8 10 = tube Ø10 * NOTE: if the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-FC000-1/4-10 For further information about condensate drains and filtering elements see the section 3/5.10.

Series MD coalescing filters - materials

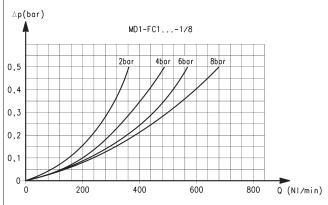
A = filter

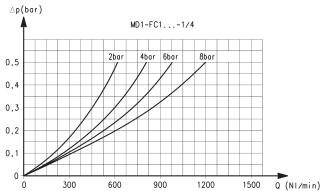
B = filter with visual blockage indicator



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





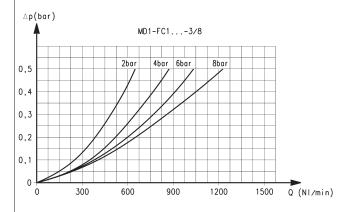
Ports with interchangeable 1/8 threaded cartridges

 Δp = Pressure drop Q = Flow

Ports with interchangeable 1/4 threaded cartridges

 Δp = Pressure drop Q = Flow

FLOW DIAGRAMS for models with 1 µm filtering element

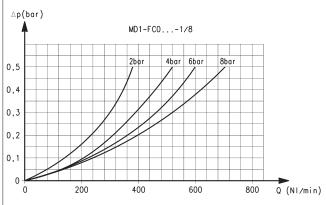


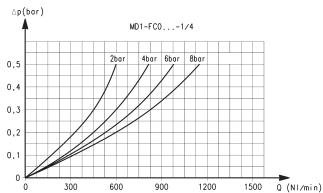
Ports with interchangeable 3/8 threaded cartridges

 Δp = Pressure drop Q = Flow

CK CAMOZZI

FLOW DIAGRAMS for models with 0.01 µm filtering element





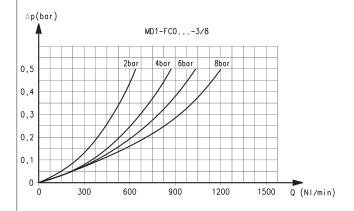
Ports with interchangeable 1/8 threaded cartridges

 Δp = Pressure drop Q = Flow

Ports with interchangeable 1/4 threaded cartridges

 Δp = Pressure drop Q = Flow

FLOW DIAGRAMS for models with 0.01 µm filtering element

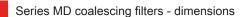


Ports with interchangeable 3/8 threaded cartridges

 Δp = Pressure drop Q = Flow







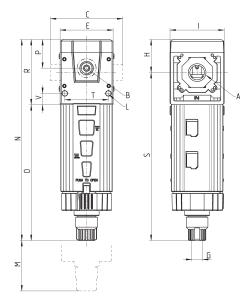


PNEUMATIC SYMBOLS LEGEND:

FA01 = coalescing filter with direct G1/8 exhaust

FA02 = coalescing filter with semi-automatic manual drain

FA03 = coalescing filter with automatic/depressuring drain









DIMENSIONS																	
Mod.	Α	В	С	Е	G	Н	- 1	L	M	N	0	Р	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

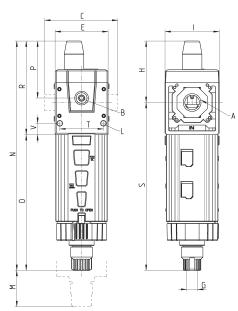


PNEUMATIC SYMBOLS LEGEND:

FA04 = coalescing filter with direct G1/8 exhaust and visual blockage indicator

FA05 = coalescing filter with semi-automatic manual drain and visual blockage indicator

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









DIMENSIONS																	
Mod.	Α	В	С	Е	G	Н	- 1	L	М	N	0	Р	R	S	Т	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