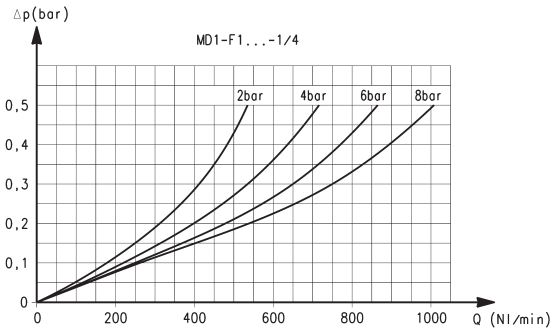
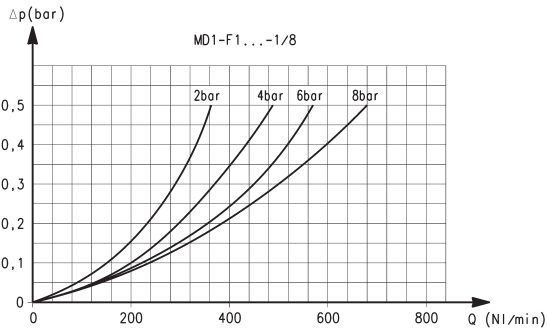


Series MD modular FRL units

Series MD filters



FLOW DIAGRAMS for models with 5 µm filtering element



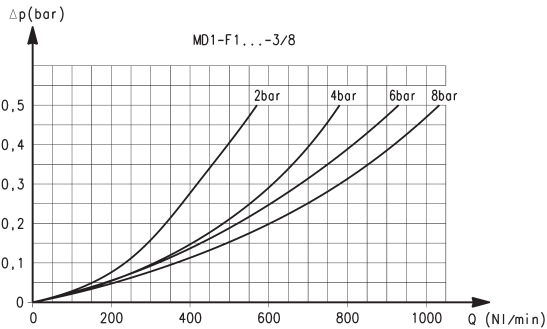
Ports with interchangeable 1/8 threaded cartridges

Δp = Pressure drop
Q = Flow

Ports with interchangeable 1/4 threaded cartridges

Δp = Pressure drop
Q = Flow

FLOW DIAGRAMS for models with 5 µm filtering element



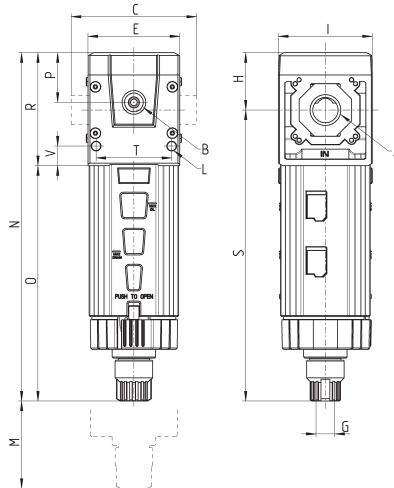
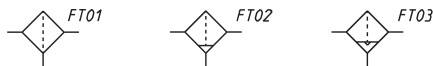
Ports with interchangeable 3/8 threaded cartridges

Δp = Pressure drop
Q = Flow

Series MD filters - dimensions



PNEUMATIC SYMBOLS LEGEND:
 FT01 = filter with direct G1/8 exhaust
 FT02 = filter with semi-automatic manual drain
 FT03 = filter with automatic/depressuring drain



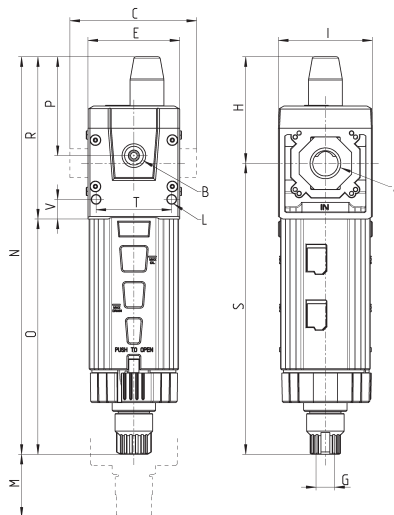
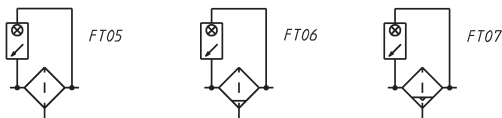
DIMENSIONS

Mod.	A	B	C	E	G	H	I	L	M	N	O	P	R	S	T	V	Weight (Kg)
MD1-F000	-	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-F000-1/8	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-F000-1/4	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-F000-3/8	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-F000-6	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-F000-8	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-F000-10	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 filters with visual blockage indicator - dimensions



PNEUMATIC SYMBOLS LEGEND:
 FT05 = filter with direct G1/8 exhaust and visual blockage indicator
 FT06 = filter with semi-automatic manual drain and visual blockage indicator
 FT07 = filter with automatic/depressuring drain and visual blockage indicator



DIMENSIONS

Mod.	A	B	C	E	G	H	I	L	M	N	O	P	R	S	T	V	Weight (Kg)
MD1-F001	-	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-F001-1/8	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-F001-1/4	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-F001-3/8	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-F001-6	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-F001-8	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-F001-10	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

Series MD modular FRL units

Series MD coalescing filters



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



- » 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)

The coalescing filter is a fine oil separator filter that removes the solids with dimensions from 0.1 to 5 µm and oil vapours with a concentration from 0.01 to 0.1 mg/m³. For a correct functioning 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.

GENERAL DATA

Construction	modular, compact with filtering element in BOROSILICATE	
Materials	see TABLE OF MATERIALS (pag. 3/0.10.02)	
Ports	with interchangeable cartridges: 1/8, 1/4 and 3/8 threaded or integrated with super-rapid fitting for tube with Ø 6, 8 and 10 mm	
Condensate capacity	24 cc	
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 (pag. 3/0.10.03 and 3/0.10.04)	
Oil retain efficiency	99.80% (0.01µm)	97% (1µm)
Particles retain efficiency	99.9999% (0.01µm)	99.999% (1µm)
Fluid	compressed air	

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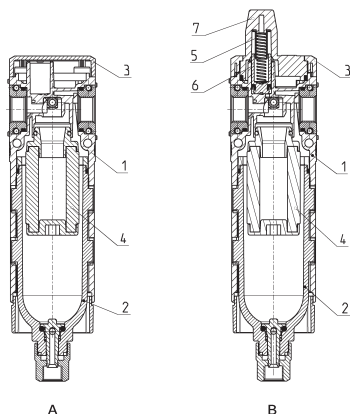
CODING EXAMPLE

MD	1	-	FC	0	0	0	-	1/8
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MD	SERIES
1	DIMENSION: 1 = 42 mm
FC	COALESCING FILTER
0	FILTERING ELEMENT: 0 = 0,01 µm 1 = 1 µm
0	CONDENSATE DRAIN: 0 = semiautomatic-manual drain 5 = automatic drain, protected depressurisation 8 = direct G1/8 exhaust
0	VISUAL BLOCKAGE INDICATOR: 0 = not present 1 = present
1/8	PORTS (IN - OUT)*: = without cartridges 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 (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