

Series MD 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



- » Removal of impurities and condensate
- » Clogging visual indicator
- » Semi-automatic manual or depressuring condensate drain
- » Version without drain with 1/8 port
- » Bowl locking system reducing the risk of accidents
- » Additional air intakes with the same characteristics of the outlet air (line)

The Series MD air treatment product line is characterized by a modern and linear design as well as high performance. The technopolymer structure allows to create a simplified, product, lightweight and robust at the same time.

Thanks to the solution adopted for the pneumatic connection, it is possible to equip the same element with interchangeable cartridges which can be threaded or with an integrated super-rapid fitting, both 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 HDPE
Materials	see TABLE OF MATERIALS (pag. 3/0.05.02)
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 (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. 3/0.05.03 and 3/0.05.04)
Fluid	compressed air

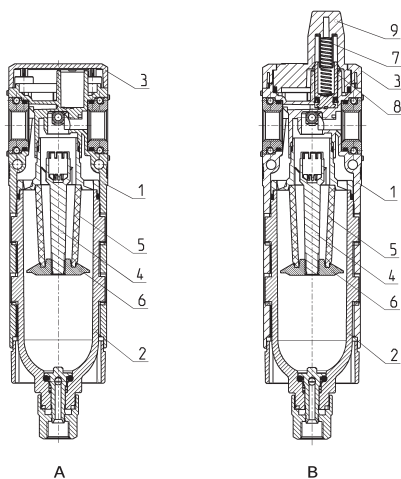
CODING EXAMPLE

MD	1	-	F	0	0	0	-	1/8
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MD	SERIES
1	DIMENSION: 1 = 42 mm
F	FILTER
0	FILTERING ELEMENT: 0 = 25 µm 1 = 5 µm
0	CONDENSATE DRAIN: 0 = semiautomatic-manual 5 = depressurization, protected 8 = without drain, with G1/8 port
0	CLOGGING VISUAL INDICATOR: 0 = not present 1 = present
1/8	PORTS (IN - OUT)*: = without ports 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 port is different from the outlet port, both values shall be indicated. Example: MD1-F000-1/8-1/4	

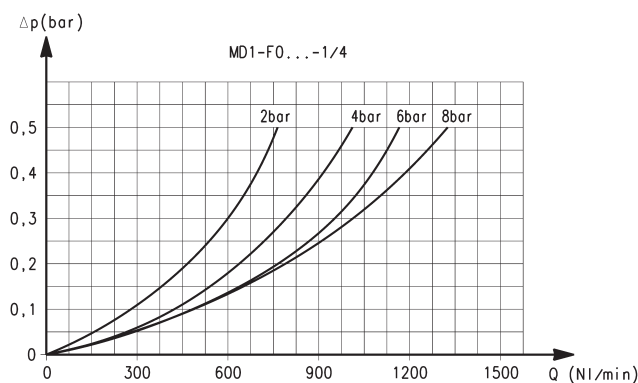
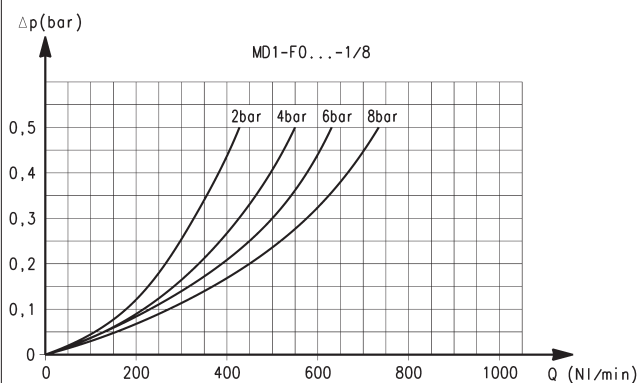
Filters Series MD - materials

A = filter
B = filter with clogging visual indicator



PARTS	MATERIALS
1 = Body	Polyamide
2 = Tank	Polycarbonate
3 = Covering	Polyamide
4 = Valve-guide	Polyacetal
5 = Filtering element	Polyethylene
6 = Separation deflector	Polyacetal
7 = Upper spring	Stainless steel
8 = Piston	Anodized aluminium
9 = Clogging visual indicator	Polycarbonate
Seals	NBR

FLOW DIAGRAMS for models with 25 µm filtering element



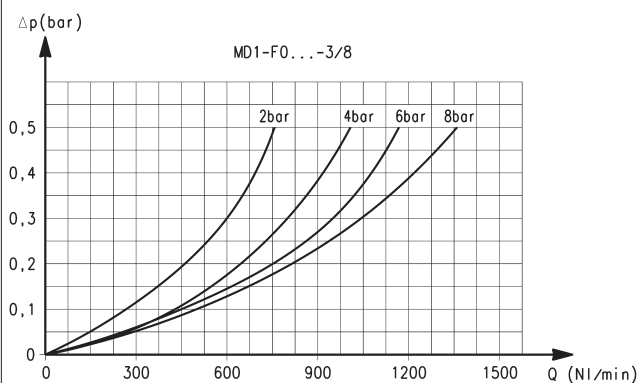
Ports with interchangeable 1/8 threaded cartridges

Δp = Pressure drop
 Q = Flow

Ports with interchangeable 1/4 threaded cartridges

Δp = Pressure drop
 Q = Flow

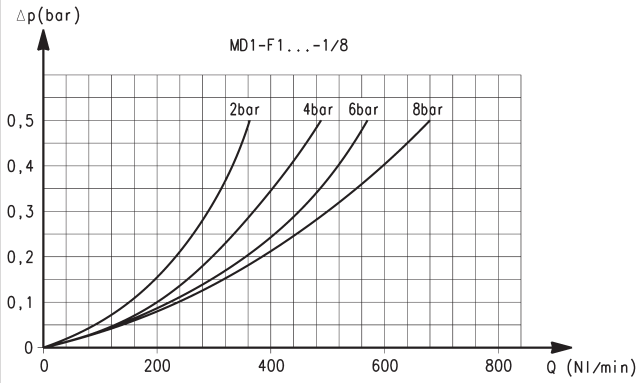
FLOW DIAGRAMS for models with 25 µm filtering element



Ports with interchangeable 3/8 threaded cartridges

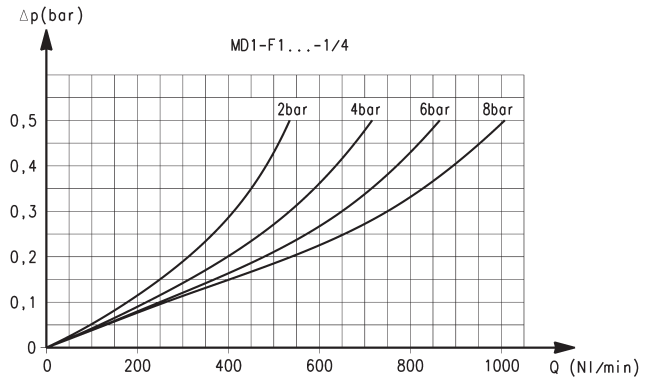
Δp = Pressure drop
 Q = Flow

FLOW DIAGRAMS for models with 5 µm filtering element



Ports with interchangeable 1/8 threaded cartridges

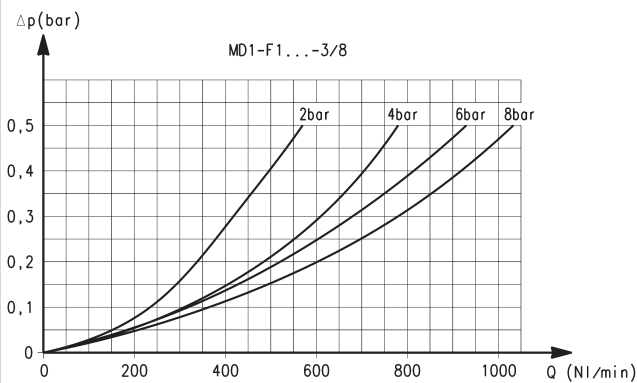
Δp = Pressure drop
 Q = Flow



Ports with interchangeable 1/4 threaded cartridges

Δp = Pressure drop
 Q = Flow

FLOW DIAGRAMS for models with 5 µm filtering element



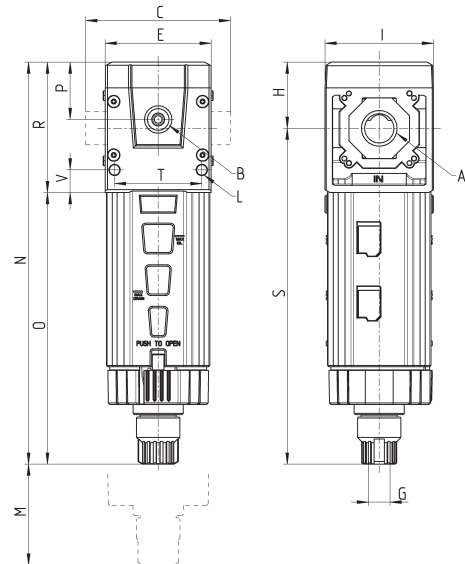
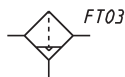
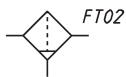
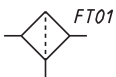
Ports with interchangeable 3/8 threaded cartridges

Δp = Pressure drop
 Q = Flow

Series MD filters - dimensions



FT01 = filter without drain
 with threaded port
 FT02 = filter with
 semiautomatic manual
 drain
 FT03 = filter with automatic
 or depressuring drain



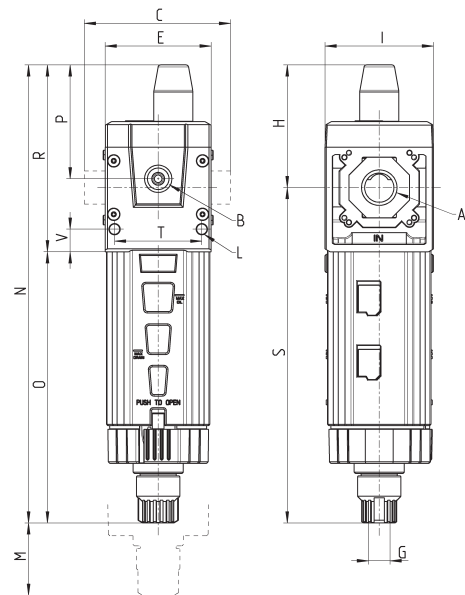
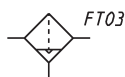
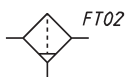
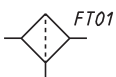
DIMENSIONS

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 clogging visual indicator - dimensions



FT01 = filter without drain
 with threaded port
 FT02 = filter with
 semiautomatic manual
 drain
 FT03 = filter with automatic
 or depressuring drain



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