

FILTERS

SERIES MD

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
- 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 outlet air (line)

The Series MD air preparation product line is characterized by a modern and linear design as well as high performance. The technopolymer structure has allowed 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 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 HDPE
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 diameters of 6, 8 and 10 mm
Condensate capacity	24 cm ³
Mounting	In-line Wall-mounting by means of through holes in the body or with a support bracket
Working temperature	-5°C ÷ 50°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
Inlet pressure	0,3 ÷ 16 bar (with automatic drain 1 ÷ 9 bar)
Exit pressure	0,5 ÷ 2bar 0,5 ÷ 4bar 0,5 ÷ 7bar 0,5 ÷ 10bar
Nominal flow	See FLOW DIAGRAMS on the following pages
Fluid	Compressed air

Coding Example

MD	1	-	F	0	0	0	-	1/8
MD	SERIES							
1	DIMENSION 1 = 42 mm							
F	FILTER							
0	FILTERING ELEMENT (further details in the dedicated section) 0 = 25 µm 1 = 5 µm							
0	DRAINING OF CONDENSATE (further details in the dedicated section) 0 = Semiautomatic-manual drain 3 = Automatic drain 5 = 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 * If the inlet (IN) cartridge is different from the outlet (OUT) cartridge, both dimensions shall be indicated. Example: MD1-F000-1/4-10							

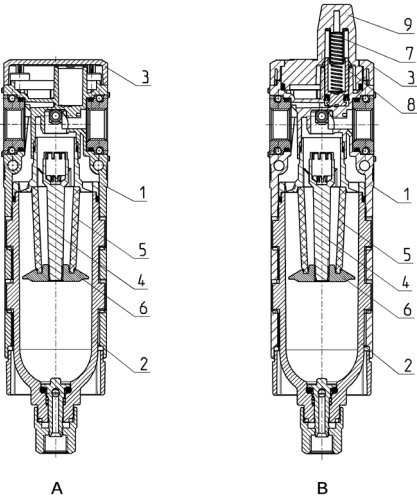
AIR TREATMENT

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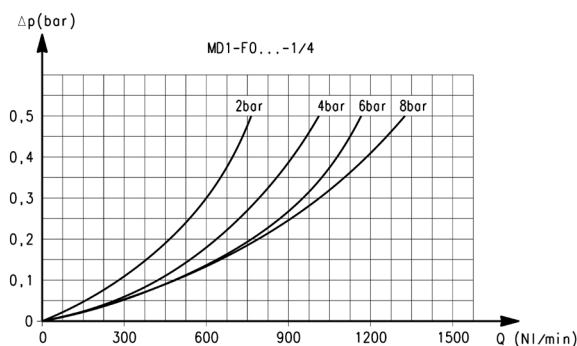
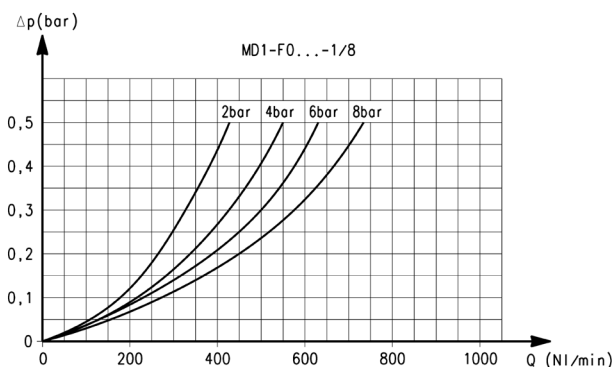
Filters Series MD - materials

A = Filter
B = Filter with visual blockage 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 = Visual blockage indicator	Polycarbonate
Seals	NBR



Flow diagrams for models with 25 µm filtering element



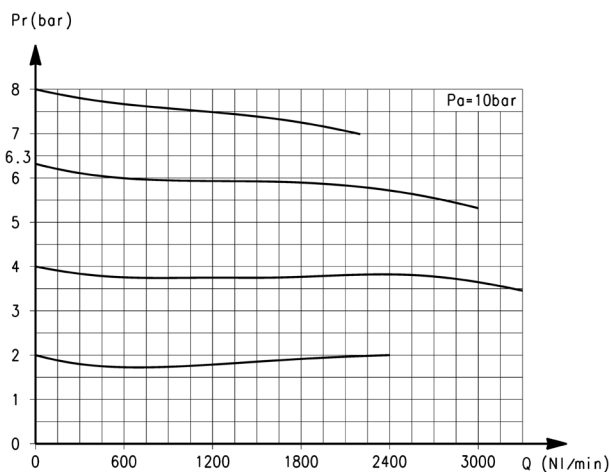
Ports with interchangeable 1/8 threaded cartridges

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



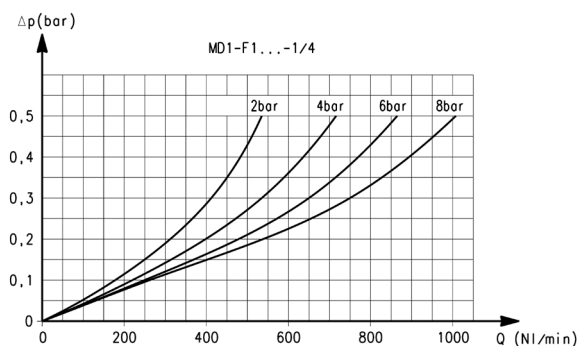
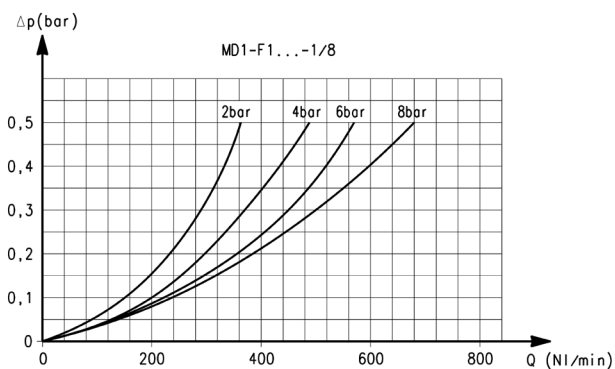
Ports with interchangeable G3/8 threaded cartridges

Pr = Regulated pressure (bar)
Q = Flow (NL/min)

Pa = Inlet pressure (bar)

N.B: The version with automatic exhaust has a flow reduction of max 10%

Flow diagrams for models with 5 µm filtering element



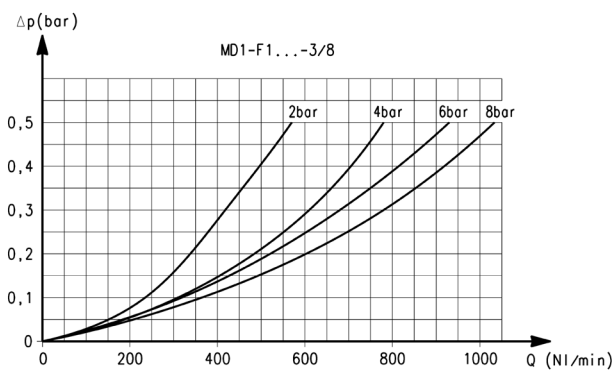
Ports with interchangeable 1/8 threaded cartridges

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 5 µm filtering element

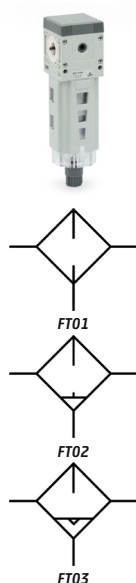


Ports with interchangeable 3/8 threaded cartridges

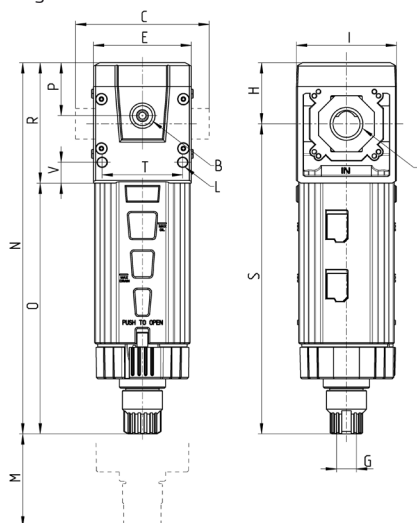
Δp = Pressure drop (bar)
Q = Flow (NL/min)

N.B The version with automatic exhaust has a flow reduction of max 10%

Series MD filters - dimensions



FT01 = Filter with direct G1/8 exhaust
FT02 = Filter with semi-automatic manual drain
FT03 = Filter with automatic/depressuring drain

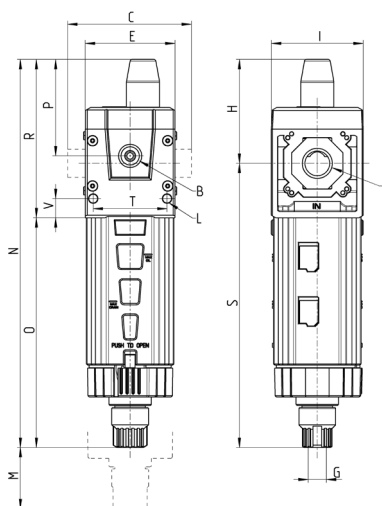


Mod.	A	B	C	E	G	H	I	L	M	N	O	P	R	S	T	V	Weight [kg]
MD1-F000	-	G1/8	42	42	G1/8	26,2	43	Ø4	90	159,4	107,7	22,7	51,7	133,2	34,6	9	0,2
MD1-F000-1/8	G1/8	G1/8	42	42	G1/8	26,2	43	Ø4	90	159,4	107,7	22,7	51,7	133,2	34,6	9	0,2
MD1-F000-1/4	G1/4	G1/8	42	42	G1/8	26,2	43	Ø4	90	159,4	107,7	22,7	51,7	133,2	34,6	9	0,2
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
MD1-F030	-	G1/8	42	42	M10x1	26,2	43	Ø4	90	149	97,4	22,7	51,7	122,9	34,6	9	0,2

Series MD filters with visual blockage indicator - dimensions



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



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
MD1-F031	-	G1/8	42	42	M10x1	48,7	43	Ø4	90	171,5	97,4	45,2	74,2	122,9	34,6	9	0,2