

Oil mist filter

M1000/M3000/M4000/M8000 Series

For measurement and instrumentation, etc. in oil content inhibited circuit.





CAD CAD DATA AVAILABLE.

Specifications

Descriptions	M1000	M3000	M4000	M8000
Appearance				
Working fluid		Compre	ssed air	
Working pressure range MPa		0.1 to	o 1.0	
Withstanding pressure MPa		1.	5	
Drain capacity cm ³	3	45	80	80
Product mass kg	0.096	0.28	0.52	1.35
Standard accessories		Bowl	guard	

Mantle Option name		Blank (M type)	S (S type)	X (X type)
Treated flow rate Note 1	M1000- 🗆 150		150	150
ℓ / min(ANR)	M3000- 🗆	360	450	450
Primary pressure 0.7MPa	M4000- 🗆	825	1000	1000
At pressure drop 0.01MPa	M8000- 🗆	2600	2900	2900
Ambient temperature range °C		5 to	5 to 30	
Filtration rating µm		0.01 (nominal value)	0.3	Sucking by activated charcoal Note 4
Secondary side oil content	density mg/m ³	0.1 or less Note 2 Note 3 1.0 or less Note 2		0.03 or less Note 5
Mantle (element) replacer	nent	1 year (6000 hours) or	Note 6	

Note 1. Use this products within the rated flow range.

If this product is installed onto the place where there are suddenly exceeding rated flow and large pulsation, damaged chips and oil content / drain etc. of mantle may splash to the secondary side, and may pose problems at the terminal.

Note 2. Where primary side oil content density 30mg/m3.

Note 3. Install an oil mist filter (S type) as a pre-filter to prevent soon clogging at the primary side.

Note 4. Activated charcoal particle may flow to the secondary side, so install an air filter (F series) or an oil mist filter (M series M type or S type) to the secondary side.

Note 5. Install an oil mist filter (M series M type) to the primary side.

Note 6. Mantle (element) replacement term may vary per odor density in compressed air, so it is not specified.

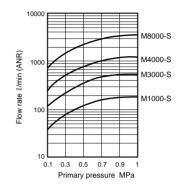
Total period from start of installation until oil odor starts smelling is defined as deodorization effective period, and replace mantle (element) regularly. Also, use this products where the primary side air temperature is 30°C or less. A high temperature may drop deodorization effect, so radiate heat during operation.

Oil Mist Filter

Flow characteristics (max. flow rate)

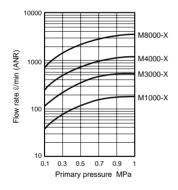
• M * 00-M

10000 M8000-M Flow rate *8*/min (ANR) M4000-M 1000 M3000-M M1000-M 100 10 0.1 0.3 0.5 0.7 0.9 1 Primary pressure MPa

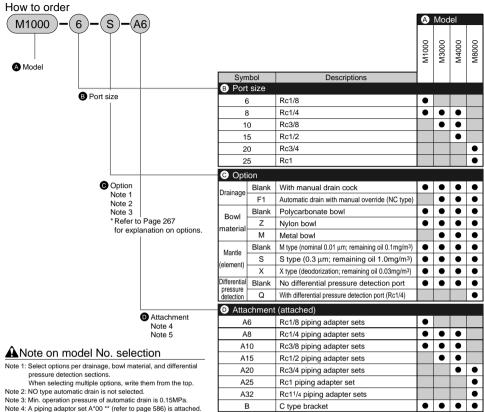


• M * 00-S





Oil Mist Filter Series

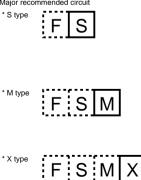


Note 5: Refer to " auxiliary components " (Page 557 to) for attachments

> Also, piping adapter set and C type bracket can not be used together.

Oil mist filter: How to use optional mantle

Major recommended circuit



Applications General

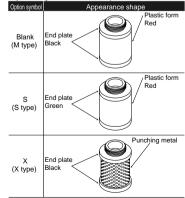
industrial ai

Oil free air

air

- Air tool Air drill / air driver
- Air grinder · Labor saving device and
- components
- Jig tool for compressed air
- Air chuck
- Air vice
- Precision part cleaning air blow
- Instrumentation
- Measurement
 - Logic control
 - Movable element / pure fluid element
- Luxury painting
- · Precise industry
- Deodorization . Food industry
 - · Pharmaceutical industry
 - Stirring
 - Transportation
 - Dry
 - Packing
 - · Air for brewing

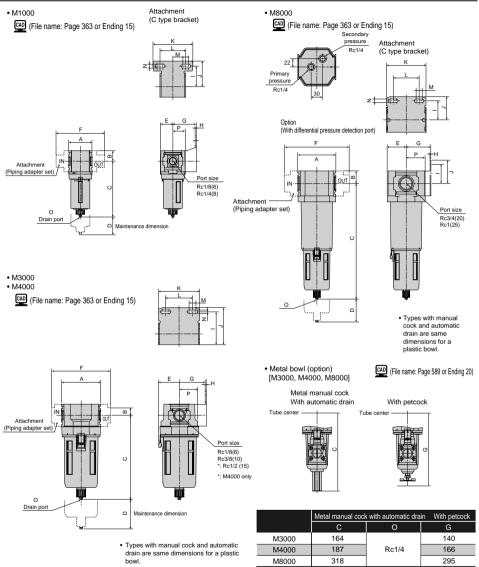
Option symbol and shape of mantle



Caution: Specifications and dimensions could be change without notice to improve the products. Please order a part after checking option symbol of model No. of main body

Oil Mist Filter Series

Dimensions



Note: C type bracket and piping adapter set can not be used together.

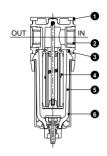
Dimensions table

Model No.		P	~	D	F	_			В	racket d	limensio	on			O (barbed joint	Р
Model No.	A	В	C	D	E	F	G	н	1	J	K	L	М	Ν	applicable tube)	Р
M1000	40	18	96	60	21.5	83	40	2	35	43.5	68	44	10	6.4	4 mm dia. Soft nylon tube	21.5
M3000	63	22.5	147	60	34.5	103	45	2.3	45	53.5	67	34.5	16.5	7	Inner diameter 5, 7 to 8 dia.	31.5
M4000	80	22.5	170	60	42.5	120 RC1/4 130	55	2.3	45	53.5	84	55	14	7	Soft nylon tube 5 mm dia.	37.5
M8000	100	33	301	200	50	170 RC1/4 176	65	2.3	50	61	104	68	16	9	Soft vinyl tube	50

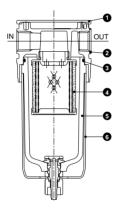
Oil Mist Filter

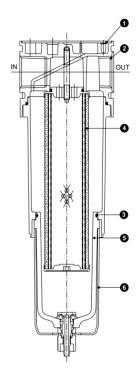
Internal structure and parts list

• M1000



• M3000 / M4000





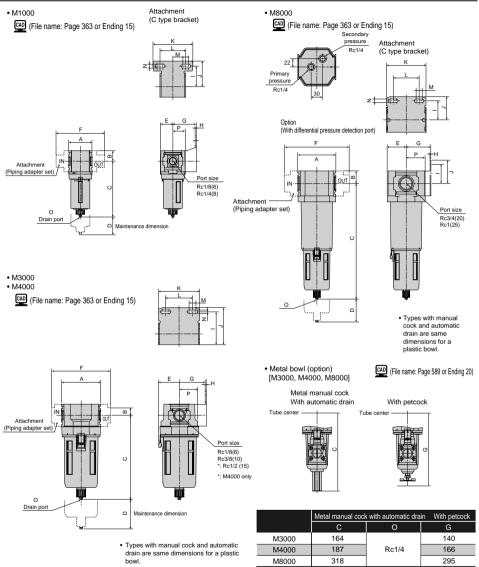
• M8000

No.	Part name	Material							
INO.	Fait name	M1000	M1000 M3000 M4000						
1	Plate cover	ABS resin							
2	Body	Polyamide resin	Aluminum ally die casting						
3	O ring Note 1	Special nitrile rubber							
4	Mantle assembly	Mantle assembly —							
5	Bowl assembly	Polycarbonate resin, polyacetal resin and urethane rubber resin							
6	Bowl guard	Polyamide resin	Polyamide resin						
Note 1	into 1. O zing of M1000 has the engoing house								

Note 1: O ring of M1000 has the special shape.

Oil Mist Filter Series

Dimensions



Note: C type bracket and piping adapter set can not be used together.

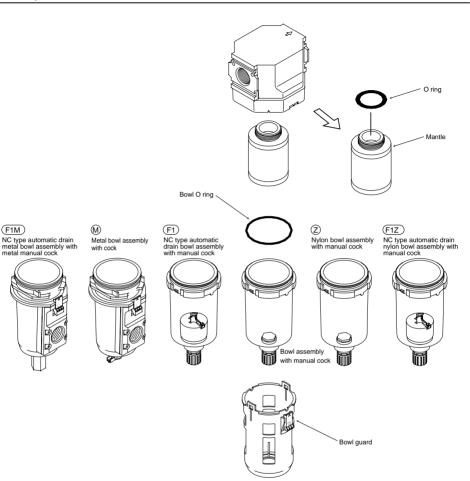
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Oil Mist Filter

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Optional parts table-oil mist filters



Repair kits model no. (set of O ring, mantle and bowl O ring)

-			
Model	M type	S type	X type
M1000	M1000-KIT	M1000-KIT-S	M1000-KIT-X
M3000	M3000-KIT	M3000-KIT-S	M3000-KIT-X
M4000	M4000-KIT	M4000-KIT-S	M4000-KIT-X
M8000	M8000-KIT	M8000-KIT-S	M8000-KIT-X

Repair kits model no. (set of O ring and mantle)

Model	M type	S type	X type
M1000	M1000-MANTLE-ASSY	M1000-MANTLE-ASSY-S	M1000-MANTLE-ASSY-X
M3000	M3000-MANTLE-ASSY	M3000-MANTLE-ASSY-S	M3000-MANTLE-ASSY-X
M4000	M4000-MANTLE-ASSY	M4000-MANTLE-ASSY-S	M4000-MANTLE-ASSY-X
M8000	M8000-MANTLE-ASSY	M8000-MANTLE-ASSY-S	M8000-MANTLE-ASSY-X

*M type repair parts are also compatible with M1000, 3000, 4000, and 8000 series before '98.5, so select a part for M type. *Refer to options / parts list of air filter for bowl assembly / bowl guard.