



Oil mist filter Standard white series

## M1000 / M2000 / M3000

## M4000 / M6000 / M8000-W Series

Ideal for circuits susceptible to oil, including measuring, and instrumentation circuits

Port size: 1/8 to 1

JIS symbol



### Specifications

Descriptions	M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
Exterior						
Working fluid	Compressed air					
Working pressure range MPa	0.1 to 1.0 Note 7, Note 8					
Withstanding pressure MPa	1.5 Note 7					
Drain capacity cm <sup>3</sup>	3	25	45	80	80	80
Port size Rc, PT, (3/8 uses an adaptor)	1/8, 1/4	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	1/4, 3/8, 1/2 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Product weight kg	0.096	0.25	0.28	0.52	0.95	1.35
Standard accessories	Bowl guard					

Mantle option name	Blank (M type)	S (S type)	X (X type)
M1000-□-W	150 Note 7	150 Note 7	150
M2000-□-W	250 Note 7	310 Note 7	310
M3000-□-W	360	450	450
M4000-□-W	825	1000	1000
M6000-□-W	1270	1400	1400
M8000-□-W	2600	2900	2900
Ambient temperature range °C	5 to 60		5 to 30
Filtration rating µm	0.01 (nominal)	0.3	Adsorption by activated carbon Note 4
Secondary oil concentration mg/m <sup>3</sup>	0.01 or less Note 2, Note 3	0.5 or less Note 2	0.003 or less Note 5
Mantle (element) replacement	1 year (6000 hours) or pressure drop of 0.1MPa		- Note 6

Note 1: Use within the maximum processing flow rate. If the maximum processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

Note 2: The secondary oil density is the value when the primary oil density is 30 mg/m<sup>3</sup> and inlet air temperature is 21°C.

Note 3: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.

Note 4: Activated carbon particles could flow to the secondary side, so install an air filter (F Series) or oil mist filter (M Series M type or S type) on the secondary side.

Note 5: When an oil mist filter (M Series M type) is installed on the primary side.

Note 6: The mantle (element) replacement period depends on the odor density in compressed air, and thus cannot be clearly indicated.

Consider the total period from initial installation to when the smell of oil is confirmed as the effective deodorizing period, and replace at the same time as the M type or replace according to period of use. (e.g. 1000 hours of use at 21°C or confirmation of smell, which ever comes first).

The primary air temperature must be 30°C or less. The deodorizing effect will drop if the temperature is high, so provide heat dissipation measures.

Note 7: When "F1" with an automatic drain is selected for the F1000 series, minimum operating pressure is 0.2 MPa, maximum operation pressure is 0.7 MPa and the guaranteed pressure resistance is 1.05 MPa. Refer to the maximum processing flow table (page 97) for the F1000-F1 automatic drain for the maximum working flow.

Note 8: The minimum operating pressure is 0.15 MPa for models with automatic drain "F1".

#### Clean specification

(Catalog No. CB-033SA)

- Dust generation preventing structure for use in cleanrooms

M \* 000 - - - - -

P7\*

#### Specification for LiB production

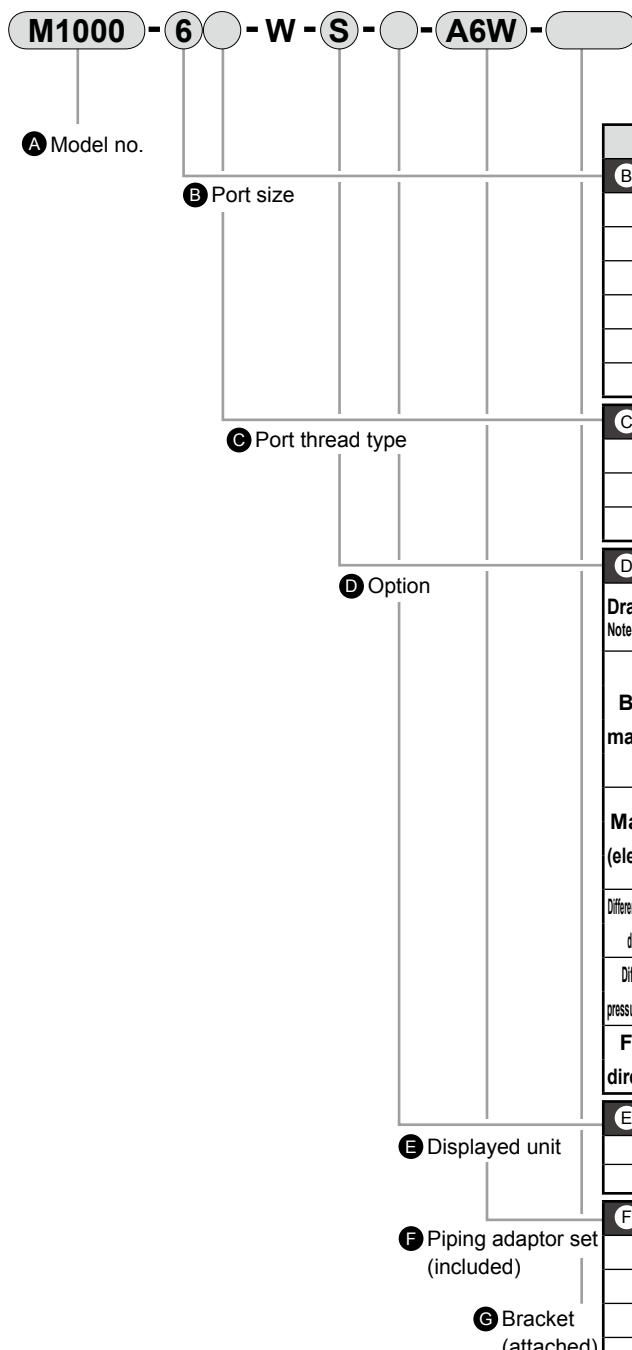
(Catalog No. CC-947)

- Specification for LiB manufacturing process

M \* 000 - - - - -

P4\*

### How to order



\* Refer top page 9 for an explanation of the options.

A Model no.					
M	M	M	M	M	M
1	2	3	4	6	8
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

Symbol		Descriptions						
<b>B Port size</b>								
6	1/8							
8 Note 8	1/4							
10	3/8							
15	1/2							
20	3/4							
25	1							
<b>C Port thread type</b>								
Blank		Rc thread						
N		NPT thread						
G		G thread						
<b>D Option</b>								
Drainage Note 3, Note 4	Blank		With manual drain cock					
	F1		Automatic drain with manual override (NC type)					
Bowl material Note 6	Blank		Polycarbonate bowl					
	Z		Nylon bowl					
Mantle (element)	M Note 6		Metal bowl					
	M1		Metal bowl with manual drain cock					
Differential pressure detection	Blank		M type (nominal 0.01 µm; remaining oil 0.01 mg/m <sup>3</sup> )					
	S		S type (0.3 µm; remaining oil 0.5 mg/m <sup>3</sup> )					
Differential pressure indicator Note 5, Note 6	X Note 5		X type (deodorization; remaining oil 0.003mg/m <sup>3</sup> )					
	Q		Without differential pressure detection port (Rc1/4)					
Flow direction	Blank		Without differential pressure indicator					
	X1		With differential pressure indicator					
Blank		Standard flow (left to right)						
X1		Reverse flow (right to left)						
<b>E Displayed unit</b>								
Blank		MPa display, Rc thread						
J1		MPa display, NPT, G thread						
<b>F Piping adaptor set (included)</b>								
Blank		Note 7 pages 155 to 157 Note 9						
A6*W		Not attached						
A8*W		1/8 piping adaptor set						
A10*W		1/4 piping adaptor set						
A15*W		3/8 piping adaptor set						
A20*W		1/2 piping adaptor set						
A25*W		3/4 piping adaptor set						
A32*W		1 1/4 piping adaptor set						
<b>* Adaptor thread type</b>								
Blank		Rc thread						
N		NPT thread						
G		G thread						
<b>G Bracket (attached)</b>								
Blank		Page 152						
BW		C type bracket						

### ⚠ Cautions for model No. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drainage discharge port (metal bowl automatic drain) are the target, as are attachments P and V.

Note 2: Select options for each drainage discharge, bowl material and differential pressure detection.

When selecting options for several items, list options in order from the top.

Note 3: N.O. automatic drain cannot be selected.

Note 4: Refer to page 12 for working conditions of the automatic drain.

Note 5: Combination with option F1 or "Q1" with differential pressure indicator is not possible.

Note 6: Option for differential indicator "Q1" is not available for bowl material "M".

Note 7: The piping adapter set and C bracket cannot be used together.

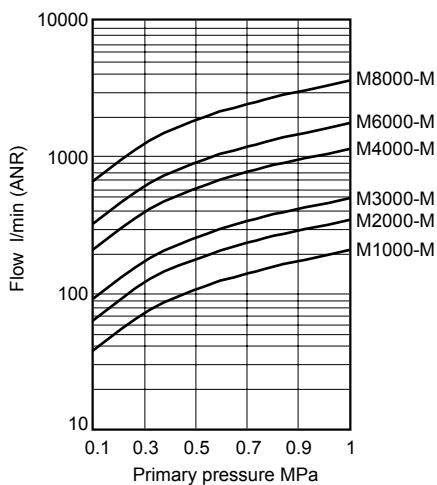
Note 8: Differential indicator option "Q1" is not available for port size "B".

Note 9: A joiner set is attached with the piping adapter set.

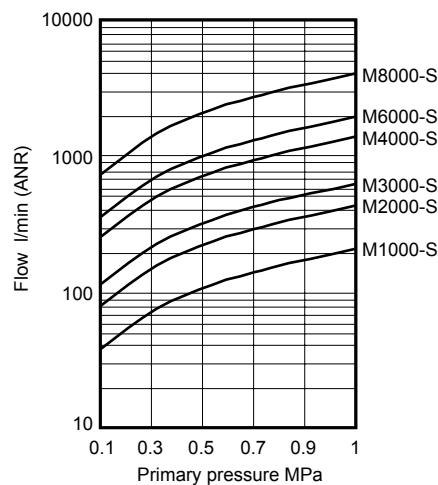
# Oil Mist Filter Series

## Flow characteristics (Maximum flow rate)

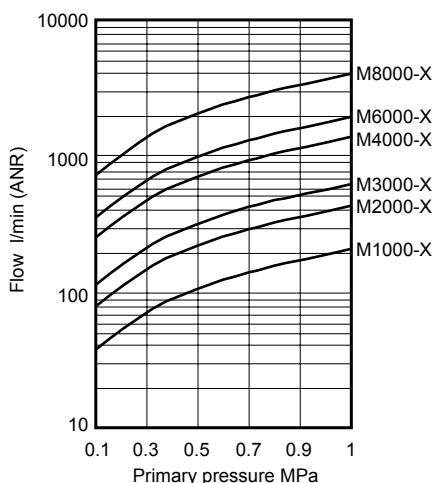
● M\*000-W-M



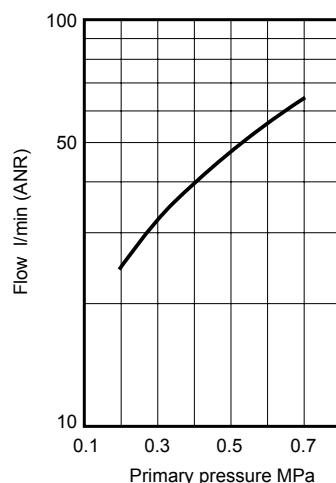
● M\*000-W-S



● M\*000-W-X



● M1000-W-F1  
With automatic drain (M type, S type)



## Selecting optional mantle for oil mist filters

Recommended circuit

◆ S type



Applications

- General industrial air
- Air tools
  - Air drill, air driver
  - Air grinder
- Labor saving device and components
- Pneumatic jigs and tools
- Air chuck
- Air vice
- Air for cleaning precision parts

◆ M type



Oil free air

- Instrumentation
- Measurement
- Sequence control
- Movable element, pure fluid element
- Luxury painting
- Precision

◆ X type



Deodorization

- Food industry
- Pharmaceutical industry
- Stirring
- Transportation
- Drying
- Packaging
- Air for brewing

## Option symbol and shape of mantles

Option symbol	Appearance
Blank (M type)	<p>End plate black</p> <p>Plastic form red</p>
S (S type)	<p>End plate green</p> <p>Plastic form red</p>
X (X type)	<p>End plate black</p> <p>Punching metal</p>

Note: Changes for product upgrades may be made without prior notice.

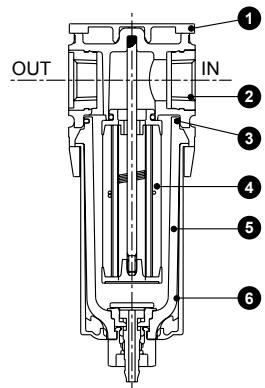
When placing an order, confirm the option symbol for the part model given here.

# Oil Mist Filter Series

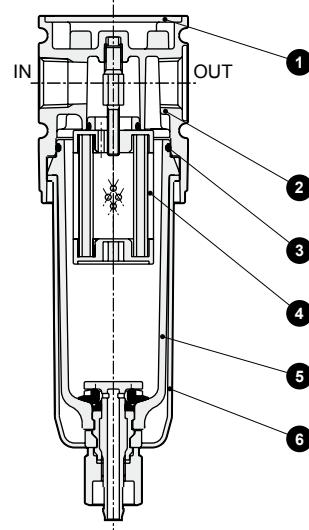
Internal structure and parts list

## Internal structure and parts list

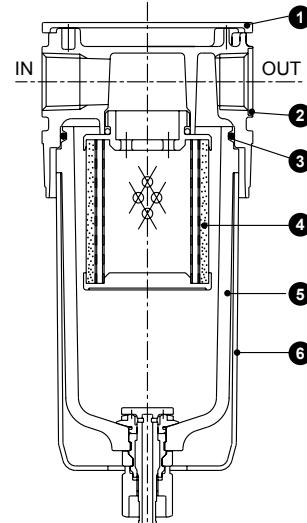
● M1000-W



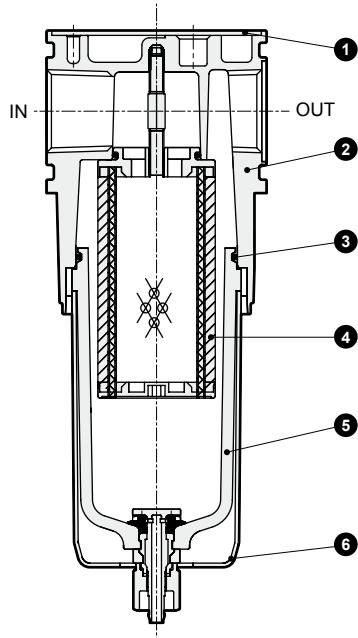
● M2000-W



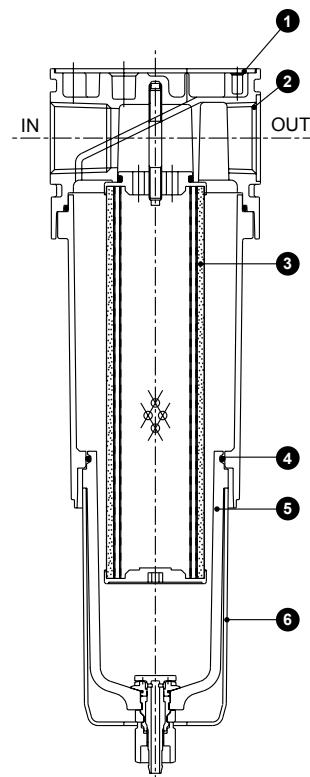
● M3000-W·M4000-W



● M6000-W



● M8000-W



No.	Part name	Material					
		M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
1	Plate cover				ABS resin		
2	Body	Polyamide resin			Aluminum alloy die-casting		
3	O-ring Note 1				Special nitrile rubber		
4	Mantle assembly				-		
5	Bowl assembly			Polycarbonate resin, polyacetal resin, urethane resin			
6	Bowl guard	Polyamide resin			Polyamide resin, steel		

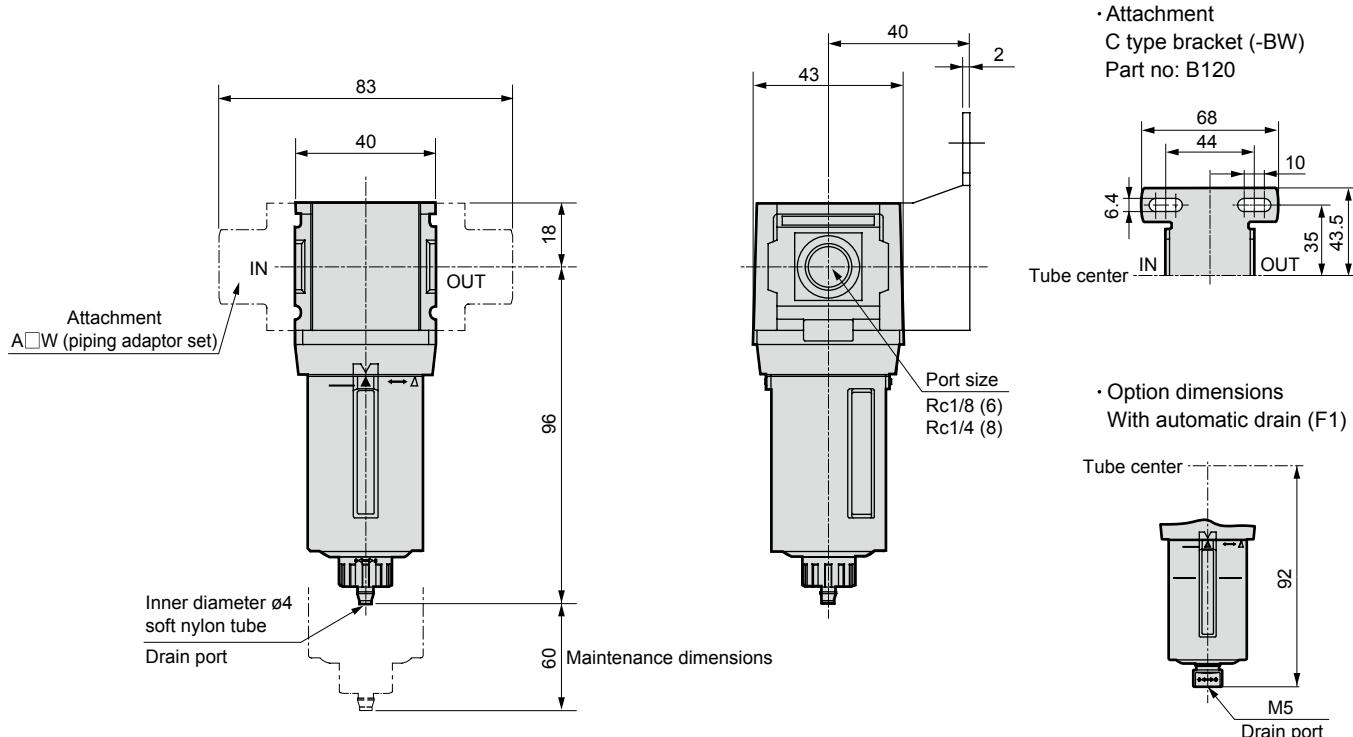
Note 1: The M1000-W O ring has a special shape.

# Oil Mist Filter Series

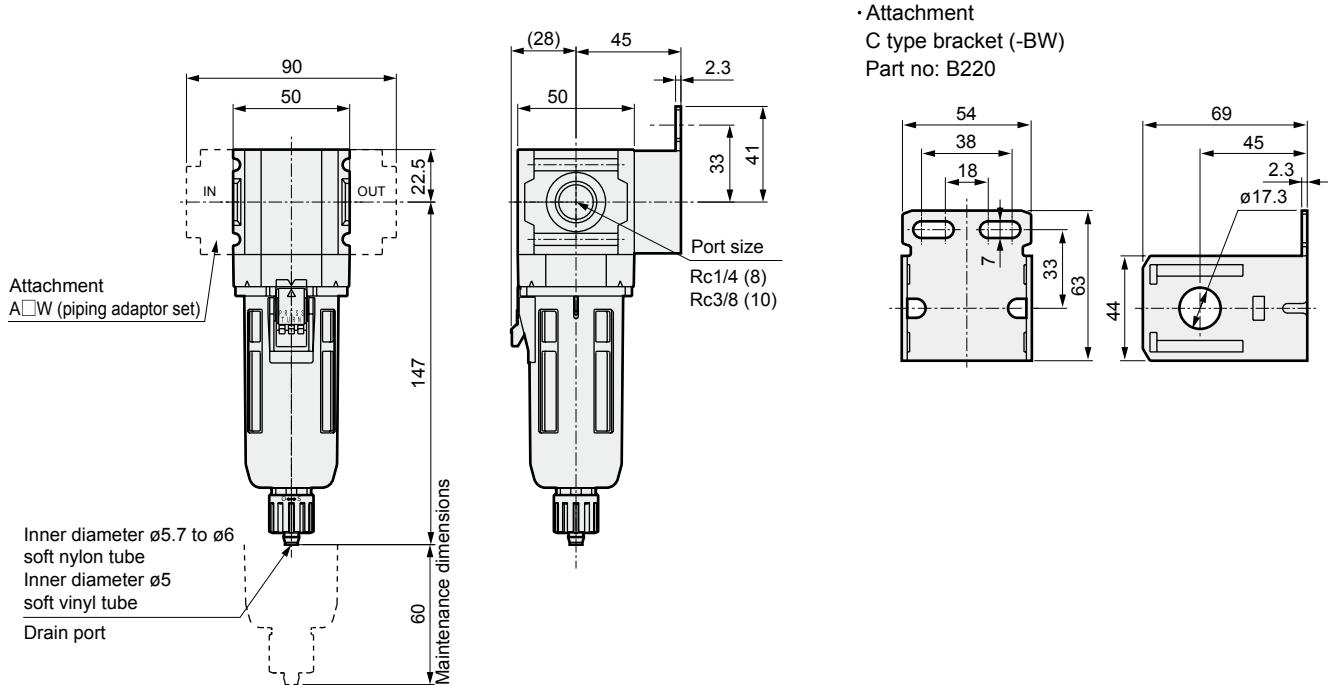
Dimensions



● M1000-W



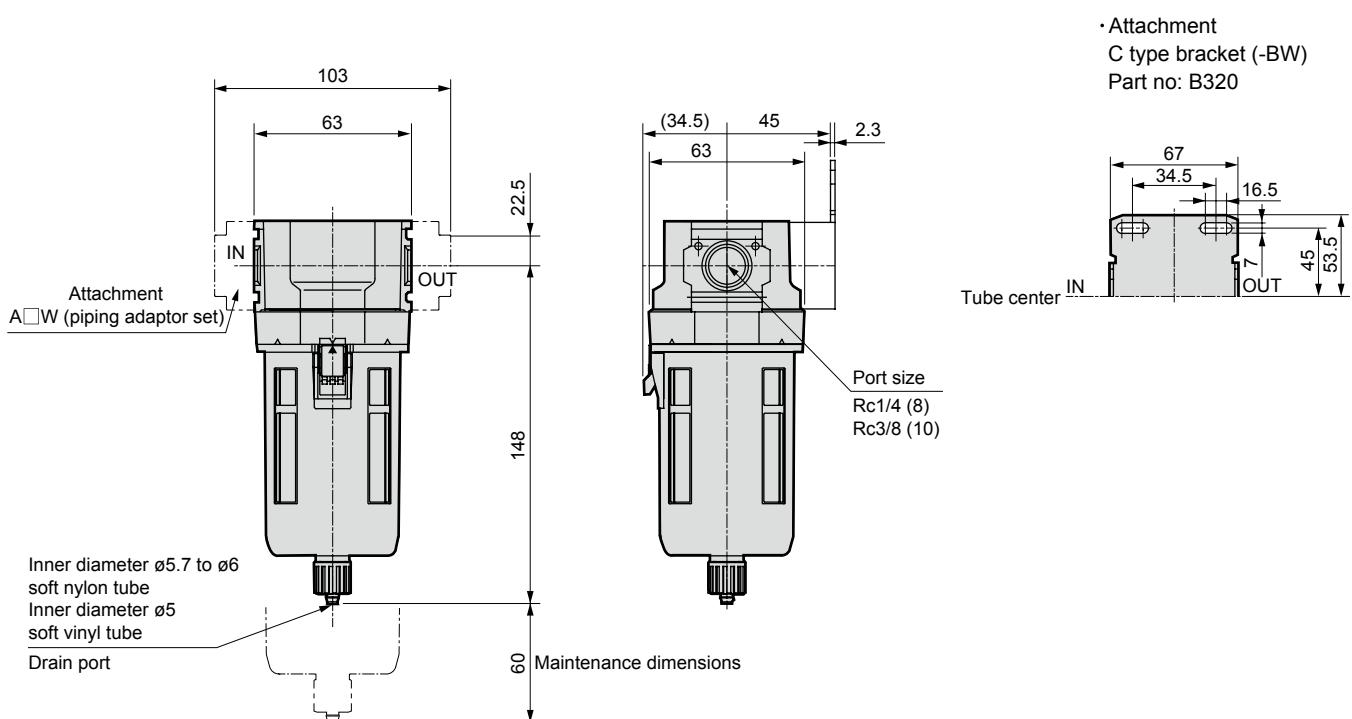
● M2000-W



### Dimensions

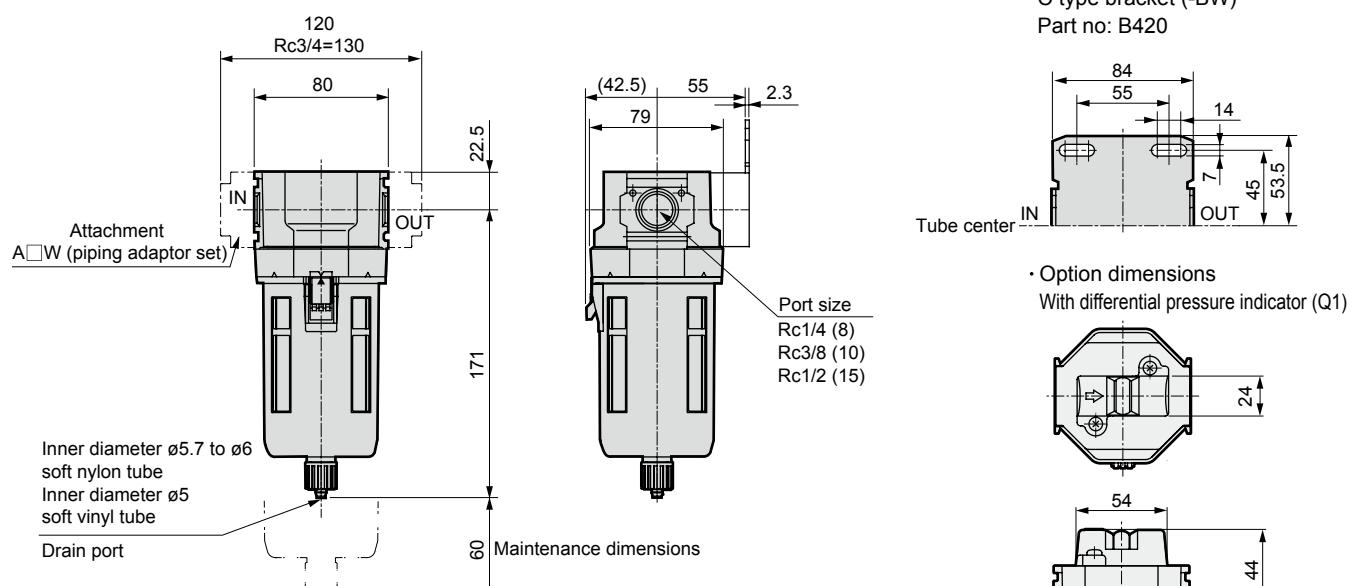


#### ● M3000-W



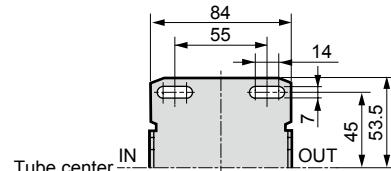
● The dimensions for the plastic bowl is the same whether the manual drain cock or automatic drain is installed. Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

#### ● M4000-W

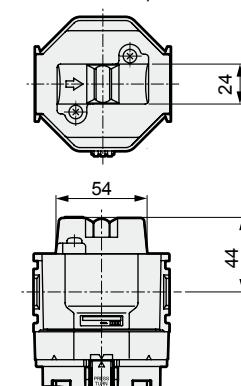


● The dimensions for the plastic bowl is the same whether the manual drain cock or automatic drain is installed.

• Attachment  
C type bracket (-BW)  
Part no: B420



• Option dimensions  
With differential pressure indicator (Q1)

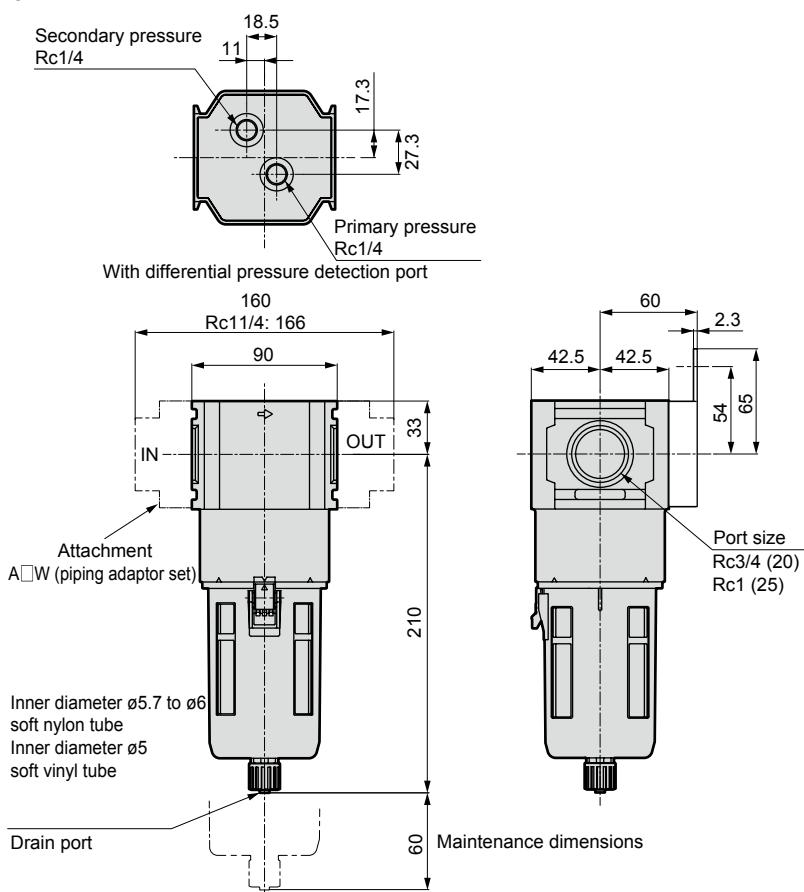


# Oil Mist Filter Series

## Dimensions

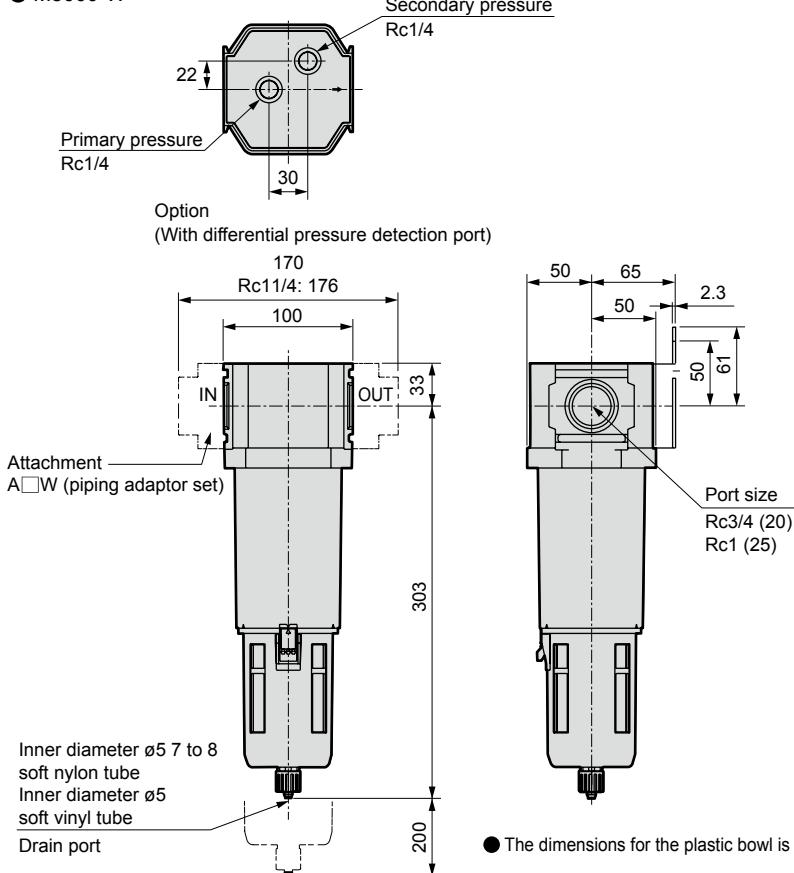


### ● M6000-W



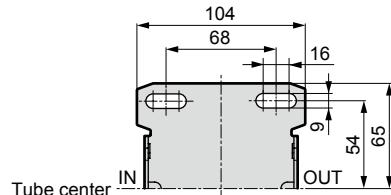
● The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.  
Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

### ● M8000-W



● The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.

• Attachment  
C type bracket (-BW)  
Part no: B620

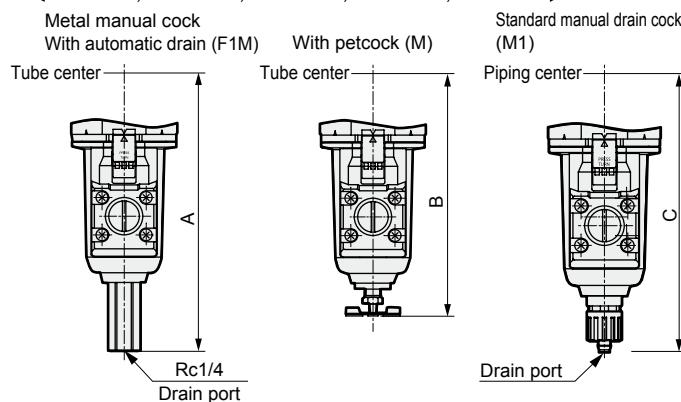


## Option dimensions



### ● Metal bowl (option)

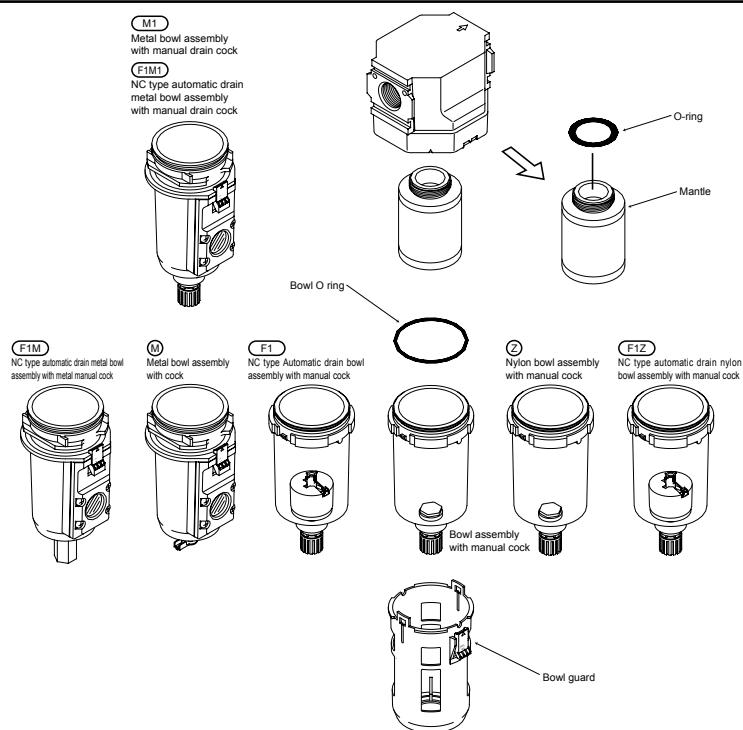
(M2000-W, M3000-W, M4000-W, M6000-W, M8000-W)



### Dimensions table

Model no.	F1M	M	M1
	A	B	C
M2000-W	-	-	147
M3000-W	164	143.5	154
M4000-W	187	166.5	177
M6000-W	226	205	216
M8000-W	319	298	309

## Option parts table for oil mist filter



### Repair kit model no. (Set of O ring, mantle and bowl O ring)

Model	M type	S type	X type
M1000-W	M1000-KIT	M1000-KIT-S	M1000-KIT-X
M1000-W-F1	M1000-KIT-F1	M1000-KIT-F1S	-
M2000-W	M2000-KIT	M2000-KIT-S	M2000-KIT-X
M3000-W, MM3000-W	M3000-KIT	M3000-KIT-S	M3000-KIT-X
M4000-W, MM4000-W	M4000-KIT	M4000-KIT-S	M4000-KIT-X
M6000-W, MM6000-W	M6000-KIT	M6000-KIT-S	M6000-KIT-X
M8000-W, MM8000-W	M8000-KIT	M8000-KIT-S	M8000-KIT-X

### Repair kit model no. (Set of O ring and mantle)

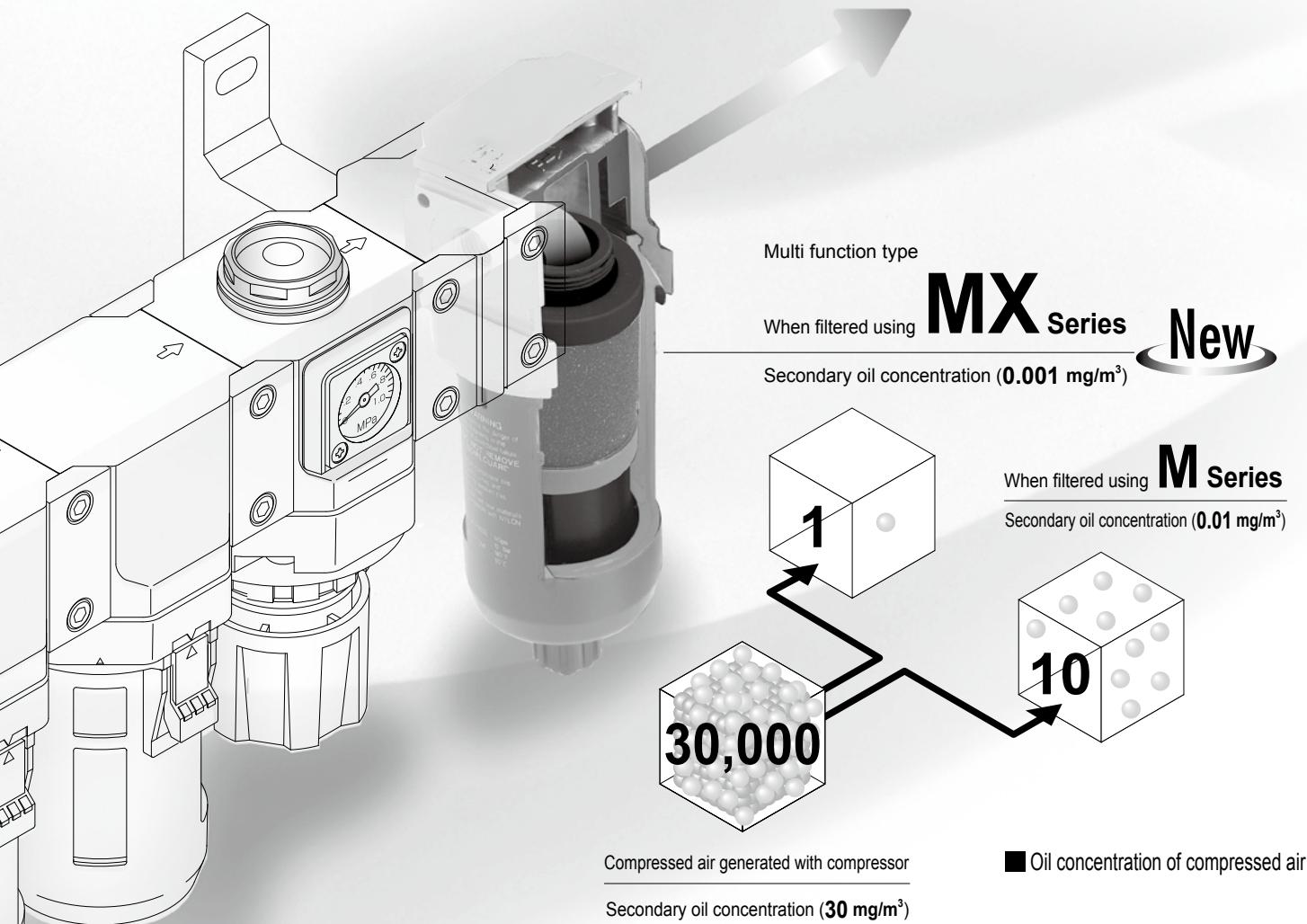
Model	M type	S type	X type
M1000-W	M1000-MANTLE-ASSY	M1000-MANTLE-ASSY-S	M1000-MANTLE-ASSY-X
M1000-W-F1	M1000-MANTLE-ASSY-F1	M1000-MANTLE-ASSY-F1S	-
M2000-W	M2000-MANTLE-ASSY	M2000-MANTLE-ASSY-S	M2000-MANTLE-ASSY-X
M3000-W, MM3000-W	M3000-MANTLE-ASSY	M3000-MANTLE-ASSY-S	M3000-MANTLE-ASSY-X
M4000-W, MM4000-W	M4000-MANTLE-ASSY	M4000-MANTLE-ASSY-S	M4000-MANTLE-ASSY-X
M6000-W, MM6000-W	M6000-MANTLE-ASSY	M6000-MANTLE-ASSY-S	M6000-MANTLE-ASSY-X
M8000-W, MM8000-W	M8000-MANTLE-ASSY	M8000-MANTLE-ASSY-S	M8000-MANTLE-ASSY-X

\* Parts of M type are compatible with M1000-W, 3000-W, 4000-W, 8000-W Series manufactured before '98.5.

\* Refer to air filter options and parts table for details on bowl assembly, and bowl guard.

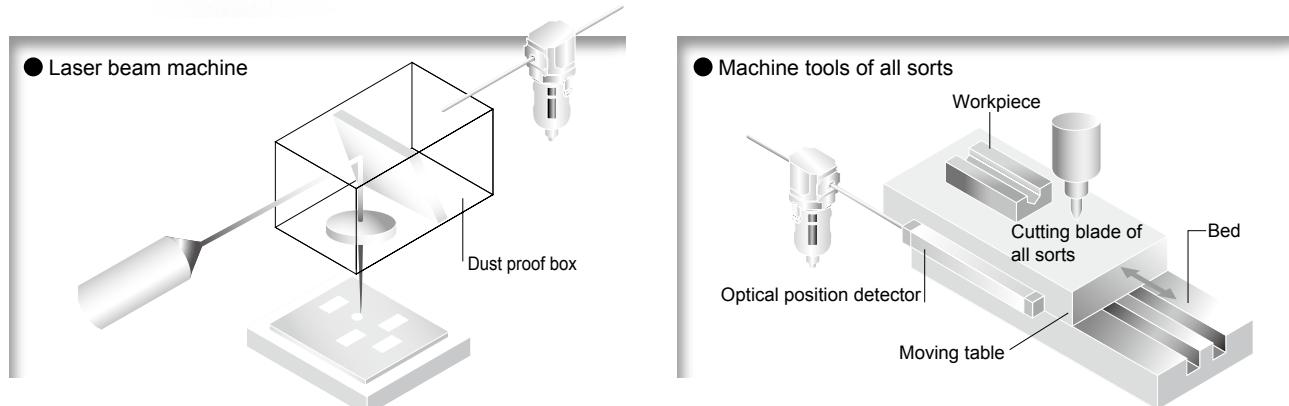
# High-performance with x10 oil removal.

**Highly efficient oil removing mantle removes oil up to a secondary oil concentration  $0.001 \text{ mg/m}^3$ .**  
 MX Series high-performance oil mist filter with x10 (compared to oil mist filter M Series) oil removal.



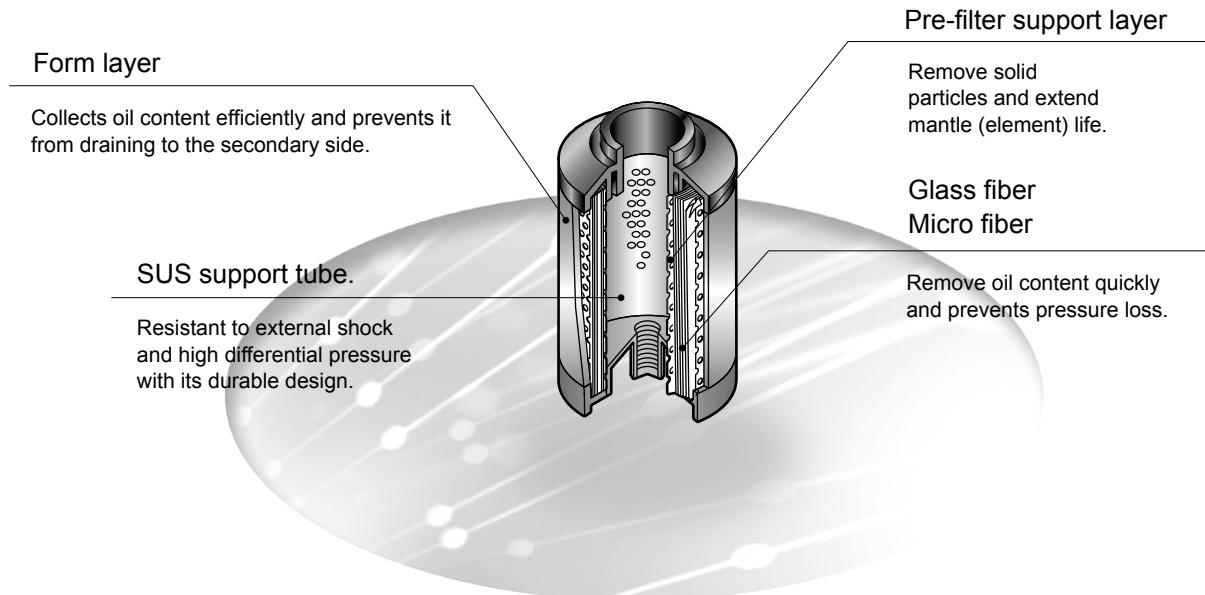
## Further expanding high-purity oilfree air applications

This series is ideal for applications requiring high-purity oilfree air, including laser processing systems, optical positioning units, and foodstuff and pharmaceutical manufacturing lines.



High performance oil mist filter  
**MX Serise**

■ Mantle structural explanation



**Secondary oil concentration  
 $0.001\text{mg/m}^3$  or less**

The highly efficient oil removing mantle removes oil up to the secondary oil concentration of  $0.001\text{ mg/m}^3$  at  $21^\circ\text{C}$ . This series is compatible with the JIS Standards Oil Class 1.

**High precision filtration**

Removes impurities down to  $0.01\mu\text{m}$ .

**Long service life, low pressure loss**

Fibers with a gap rate of 94% used for the mantle reduces pressure loss and prolong service life.

High performance oil mist filter

**MX Series variations**

	Filtration rating $\mu\text{m}$	Secondary oil concentration $\text{mg/m}^3(21^\circ\text{C} \text{時})$	Treating flow rate $\ell/\text{min}$					Ambient temperature range $^\circ\text{C}$
			1000 Series	3000 Series	4000 Series	6000 Series	8000 Series	
<b>MX Series</b>	<b>0.01</b>	<b>0.001 or less</b>	<b>75</b>	<b>180</b>	<b>370</b>	<b>670</b>	<b>1490</b>	<b>5 to 60</b>
<b>M Series</b>	<b>M Type</b>	<b>0.01</b>	<b>0.01 or less</b>	<b>150</b>	<b>360</b>	<b>825</b>	<b>1270</b>	<b>2600</b>
	<b>S Type</b>	<b>0.3</b>	<b>0.5 or less</b>	<b>150</b>	<b>450</b>	<b>1000</b>	<b>1400</b>	<b>2900</b>
	<b>X Type</b>	Activated carbon	<b>0.003 or less</b>	<b>150</b>	<b>450</b>	<b>1000</b>	<b>1400</b>	<b>2900</b>
				<b>5 to 30</b>				



Read Safety Precautions to ensure correct, safe product use.



High performance oil mist filter Standard white Series

## MX1000/MX3000/MX4000 MX6000/MX8000-W Series

Secondary side oil concentration 0.001 mg/m<sup>3</sup> Secondary oil concentration (0.001mg/m<sup>3</sup>)

Suitable for optical equipment such as optical positioning units and laser processing machines

Port size: 1/8 to 1

JIS symbol



### Specifications

Descriptions	MX1000-W	MX3000-W	MX4000-W	MX6000-W	MX8000-W
Exterior					
Working fluid	Compressed air				
Working pressure range MPa	0.1 to 1.0 Note 4, Note 5				
Withstanding pressure MPa	1.5 Note 4				
Ambient temperature range °C	5 to 60				
Filtration rating µm	0.01 (nominal)				
Secondary oil concentration mg/m <sup>3</sup>	0.001 or less Note 2, Note 3				
Maximum flow rate l/min (ANR) Note 1	75 Note 4	180	370	670	1480
Drain capacity cm <sup>3</sup>	3	45	80	80	80
Port size Rc, PT, (3/8 uses an adaptor)	1/8, 1/4 (1/2 uses an adaptor)	1/4, 3/8 (1/2 uses an adaptor)	1/4, 3/8, 1/2 (3/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)	3/4, 1 (1 1/4 uses an adaptor)
Product weight kg	0.096	0.28	0.52	0.95	1.35
Mantle (element) replacement	1 year (6000 hours) or pressure drop of 0.1MPa				
Standard accessories	Bowl guard				

Note 1: Primary pressure 0.7MPa Use within the maximum processing flow rate.

If the maximum processing flow is exceeded temporarily, or if the filter is installed at a place with high levels of pulsation, the mantle could be damaged or oil or drainage, etc., could splatter to the secondary side and result in faults at the terminal.

Note 2: The secondary oil density is the value when the primary oil density is 30 mg/m<sup>3</sup>, the inlet air temperature is 21°C and before the oil is saturated.

Note 3: Install an oil mist filter (S type) as a prefilter on the primary side to prevent early clogging.

Note 4: MX1000-W-F1 with an automatic drain has a min. working pressure of 0.2MPa, max. working pressure of 0.7MPa, withstanding pressure of 1.05MPa, and please refer to the flow characteristics on the next page for max. treating flow rate.

Note 5: The minimum operating pressure is 0.15 MPa for models with automatic drain "F1".

### Clean specification

(Catalog No. CB-033SA)

- Dust generation preventing structure for use in cleanrooms

MX\*000 - - - - -

P7\*

# Super Oil Mist Filter Series

How to order

## How to order

MX1000 - 6 - W - Z - A6W

**A** Model no.

**B** Port size

**C** Port thread type

**D** Port thread type

**E** Displayed unit

**F** Piping adaptor set (included)

### ⚠ Cautions for model No. selection

Note 1: When G threads or NPT threads are selected, the IN, OUT, gauge port, and drainage discharge port (metal bowl automatic drain) are the target, as are attachments P and V.

Note 2: Select options for each drainage discharge, bowl material and differential pressure detection.

When selecting options for several items, list options in order from the top.

Note 3: N.O. automatic drain cannot be selected.

Note 4: Refer to page 12 for working conditions of the automatic drain.

Note 5: Piping adaptor set and C type bracket cannot be used together.

Note 6: A joiner set is attached with the piping adapter set.

\* Refer top page 9 for an explanation of the options.

**G** Bracket (attached)

A Model no.				
M	M	M	M	M
X	X	X	X	X
1	3	4	6	8
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Symbol	Descriptions					
<b>B Port size</b>						
6	1/8	●				
8	1/4	●	●	●		
10	3/8		●	●		
15	1/2			●		
20	3/4				●	●
25	1				●	●

Symbol	Descriptions	Note 1				
<b>C Port thread type</b>						
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●

Symbol	Descriptions	Note 2				
<b>D Option</b>						
Drainage	Blank	With manual drain cock	●	●	●	●
	F1 Note 3, Note 4		Automatic drain with manual override (NC type)			
Bowl material	Blank	Polycarbonate bowl	●	●	●	●
	Z	Nylon bowl	●	●	●	●
	M	Metal bowl		●	●	●
Differential pressure detection	Blank	Metal bowl with manual drain cock	●	●	●	●
	Q	Without differential pressure detection port (Rc1/4)			●	●
Flow Direction	Blank	With differential pressure detection port (Rc1/4)			●	●
	X1	Standard flow (left to right)	●	●	●	●
		Reverse flow (right to left)	●	●	●	●

Symbol	Descriptions					
<b>E Displayed unit</b>						
Blank	MPa display, Rc thread	●	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●	●

Symbol	Descriptions	Note 5 pages 155 to 157 Note 6				
<b>F Piping adaptor set (included)</b>						
Blank	Not attached	●	●	●	●	●
A6*W	1/8 piping adaptor set	●				
A8*W	1/4 piping adaptor set	●	●	●		
A10*W	3/8 piping adaptor set	●	●	●		
A15*W	1/2 piping adaptor set		●	●		
A20*W	3/4 piping adaptor set			●	●	●
A25*W	1 piping adaptor set				●	●
A32*W	1 1/4 piping adaptor set				●	●

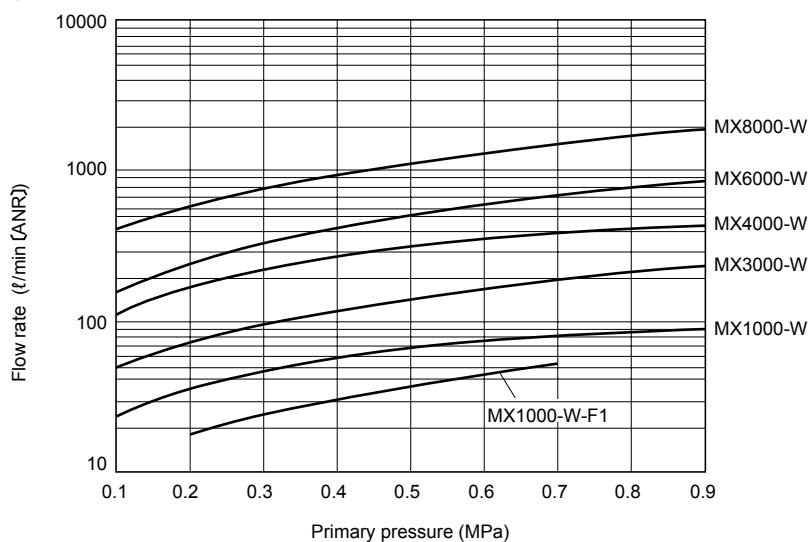
Symbol	Descriptions					
<b>* Adaptor thread type</b>						
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●

Symbol	Descriptions	Page 152				
<b>G Bracket (attached)</b>						
Blank	Not attached	●	●	●	●	●
BW	C type bracket	●	●	●	●	●

# Super Oil Mist Filter Series

## Flow characteristics (Maximum flow rate)

### ● MX\*000-W



## Selecting optional mantle for oil mist filters

### Recommended circuit

#### ◆ S type



### Applications

General industrial air  
(Secondary side air content  
0.5mg/m<sup>3</sup> or less)

- Air tools
  - Air drill, air driver
  - Air grinder
- Labor saving device and components
- Pneumatic jigs and tools
- Air chuck
- Air vice
- Air for cleaning precision parts

#### ◆ M type



Oil free air  
(Secondary side air content  
0.01mg/m<sup>3</sup> or less)

- Instrumentation
- Measurement
- Sequence control
  - Movable element, pure fluid element
- Luxury painting
- Precision industry

#### ◆ X type



Odor free air  
(Secondary side air content  
0.003mg/m<sup>3</sup> or less)

- Food industry
- Pharmaceutical industry
- Stirring
- Transportation
- Drying
- Packaging
- Air for brewing

#### ◆ MX type



Super oil  
free air  
(Secondary side air content  
0.001mg/m<sup>3</sup> or less)

- Optical positioning equipment
- Laser machining

## Option symbol and shape of mantles

	Option symbol	Appearance
MX*000-W	Blank (M type)	
	S (S type)	
	X (X type)	
MX*000-W		

Note: Changes for product upgrades may be made without prior notice.

When placing an order, confirm the option symbol for the part model given here.

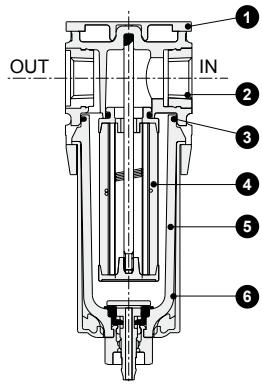
CAUTION: Secondary oil content is measured at inlet air temperature of 21 degrees celcius and primary oil content of 30mg/m<sup>3</sup>.

# Super Oil Mist Filter Series

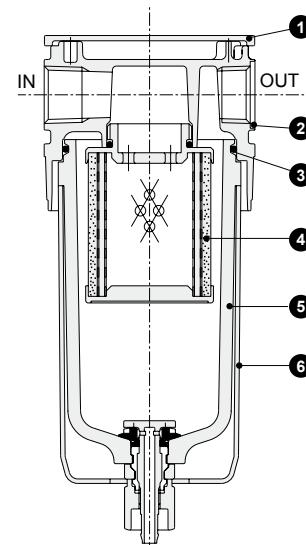
Internal structure and parts list

## Internal structure and parts list

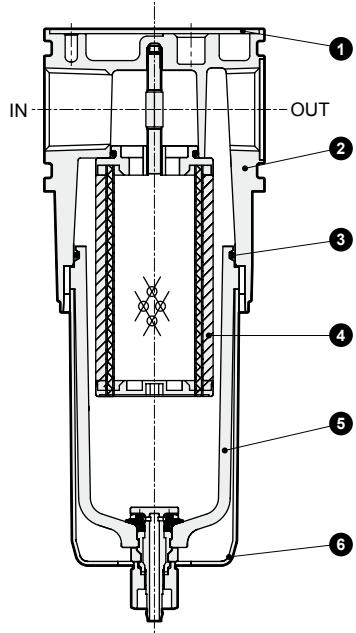
● MX1000-W



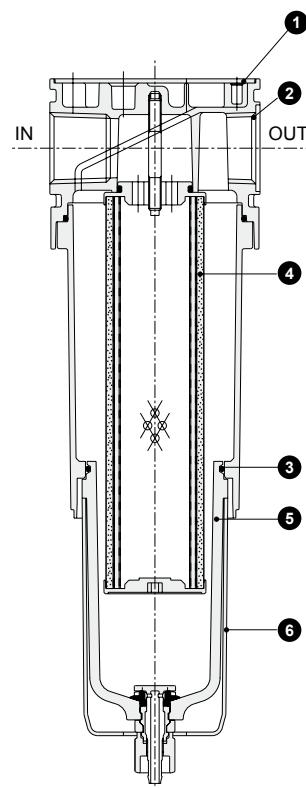
● MX3000-W・MX4000-W



● MX6000-W



● MX8000-W



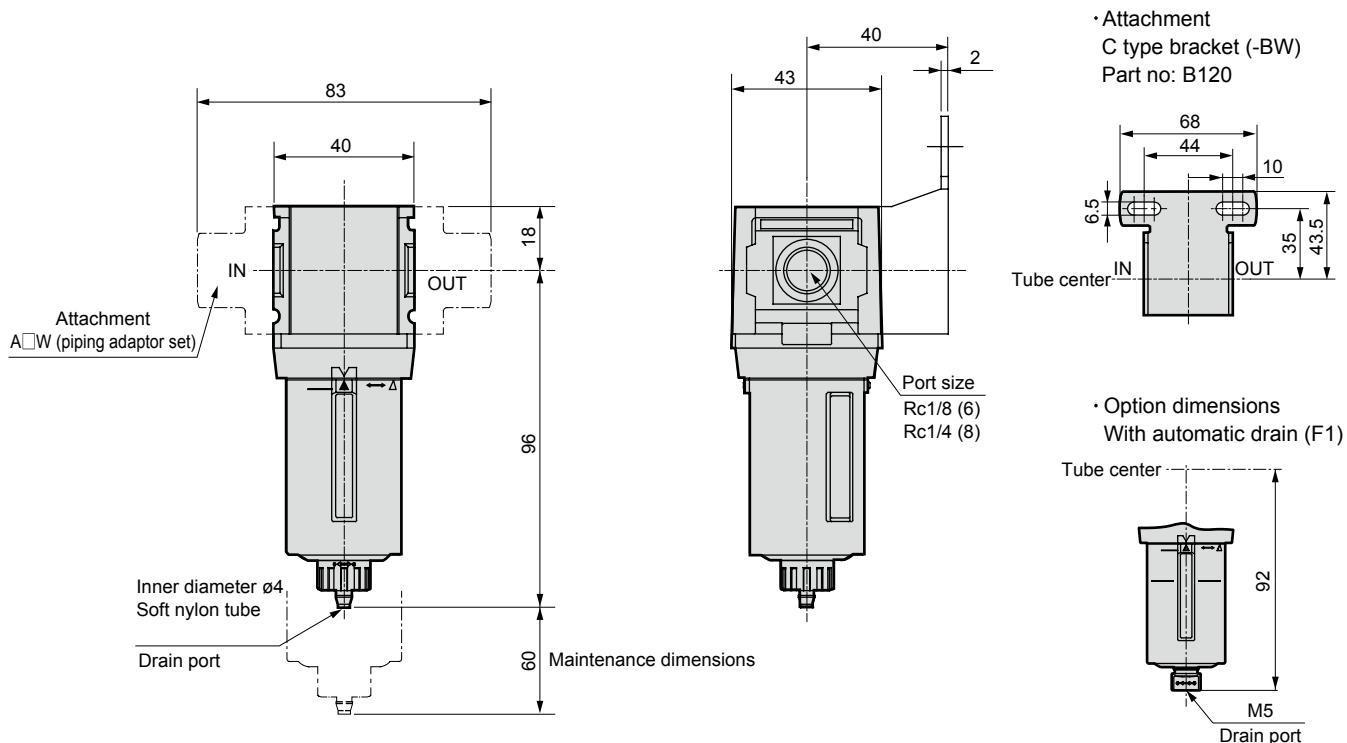
No.	Part name	Material				
		MX1000-W	MX3000-W	MX4000-W	MX6000-W	MX8000-W
1	Plate cover			ABS resin		
2	Body	Polyamide resin		Aluminum alloy die-casting		
3	O-ring Note 1			Special nitrile rubber		
4	Mantle assembly			-		
5	Bowl assembly		Polycarbonate resin, polyacetal resin, urethane resin			
6	Bowl guard	Polyamide resin		Polyamide resin, steel		

Note 1: O ring for MX1000-W will have a special shape.

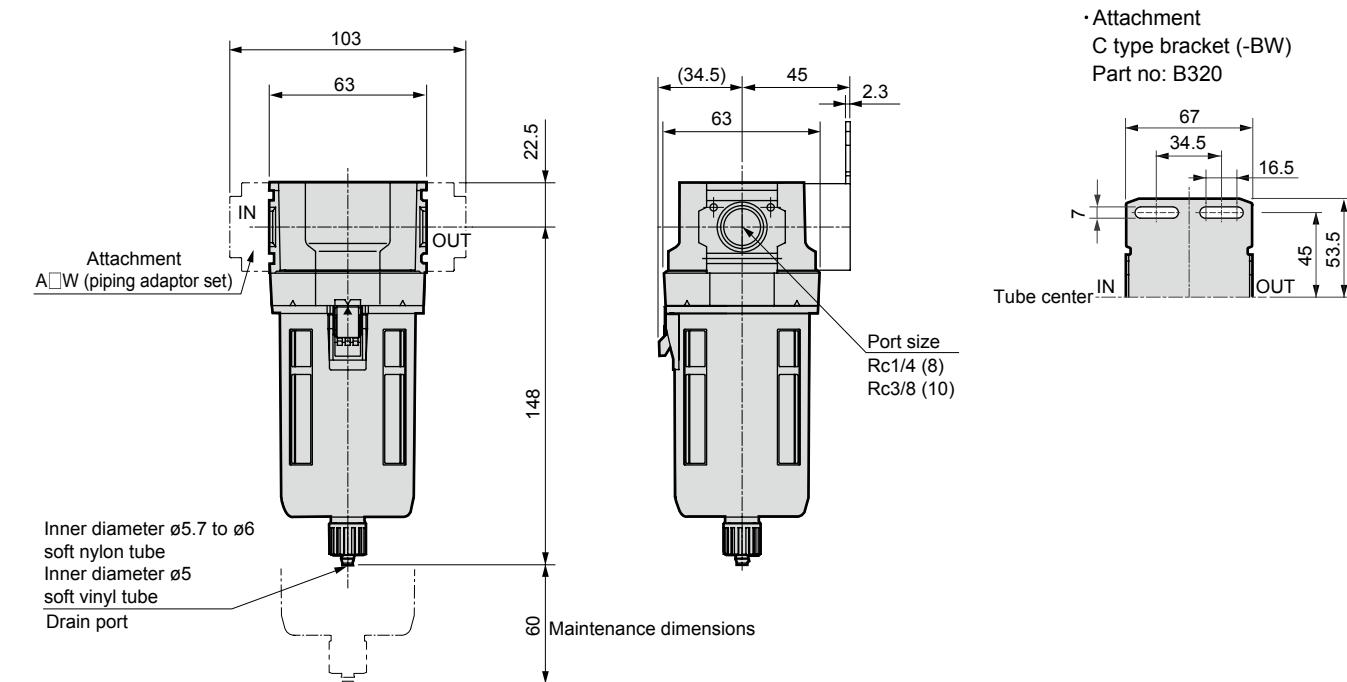
# Super Oil Mist Filter Series

## Dimensions

● MX1000-W



● MX3000-W



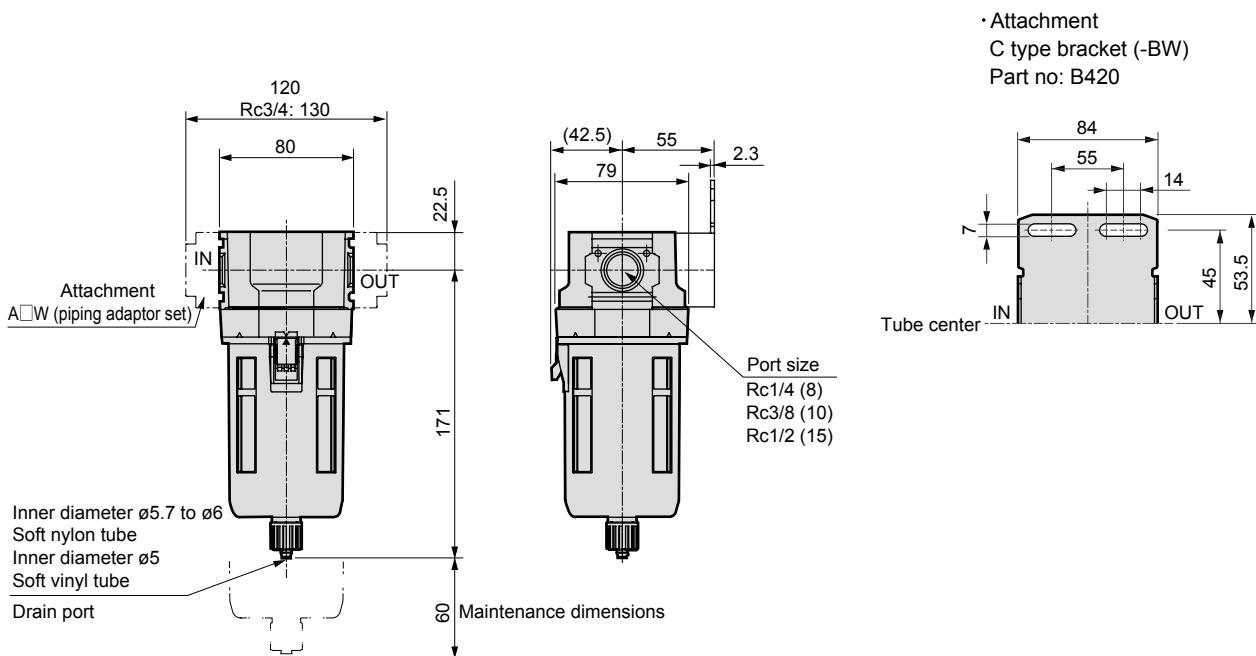
● The dimensions for the plastic bowl is the same wheather the manual drain cock or automatic drain is installed.  
Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

# Super Oil Mist Filter Series

Dimensions

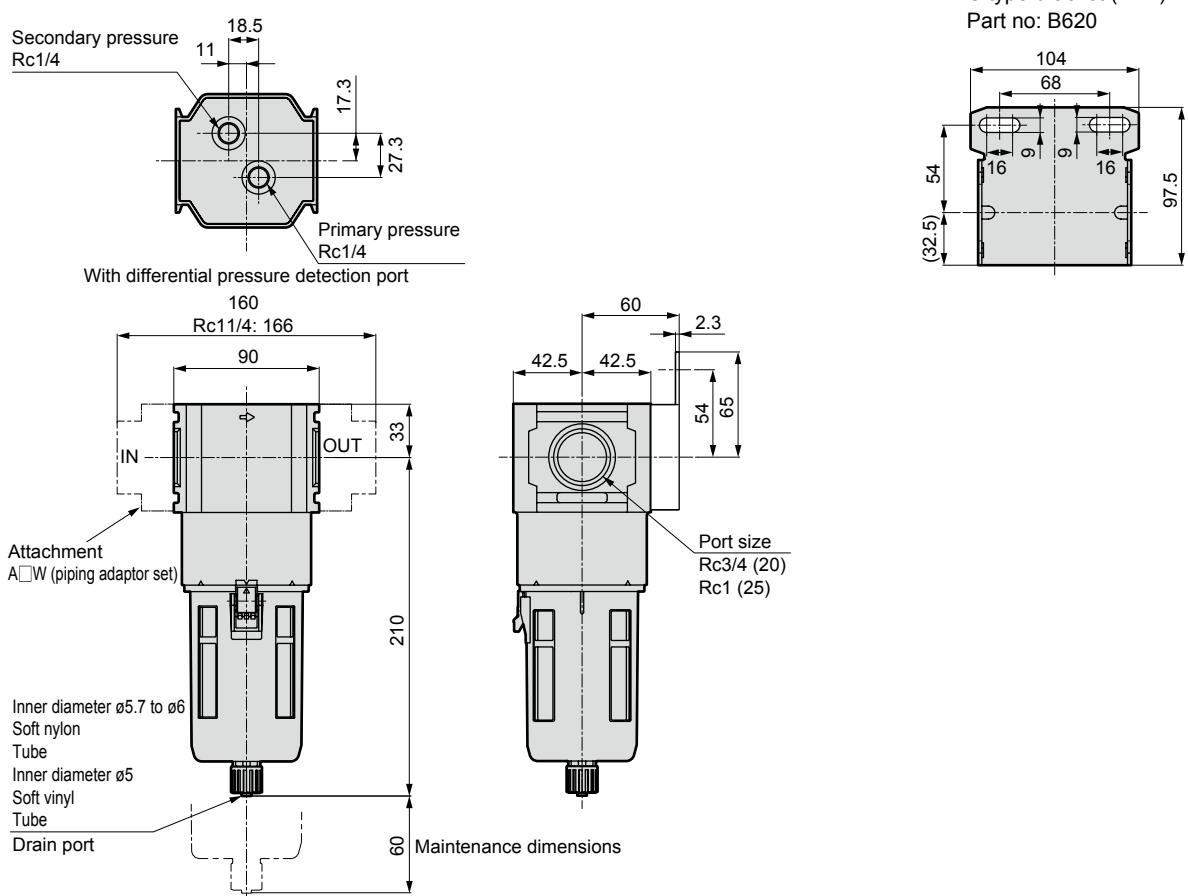
## Dimensions

### ● MX4000-W



● The dimensions for the plastic bowl is the same whether the manual drain cock or automatic drain is installed.

### ● MX6000-W



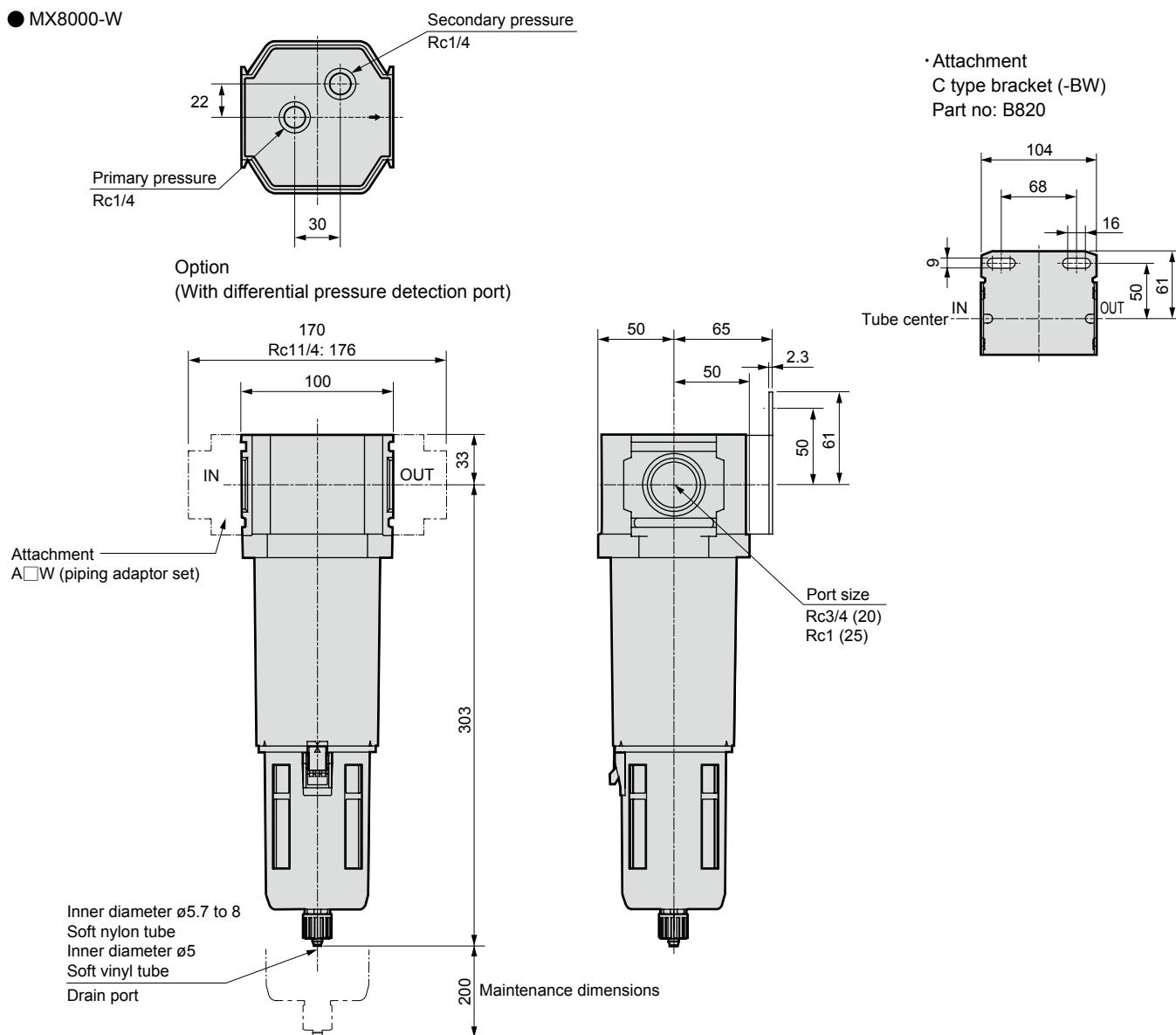
● The dimensions for the plastic bowl is the same whether the manual drain cock or automatic drain is installed.

Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

# Super Oil Mist Filter Series

## Dimensions

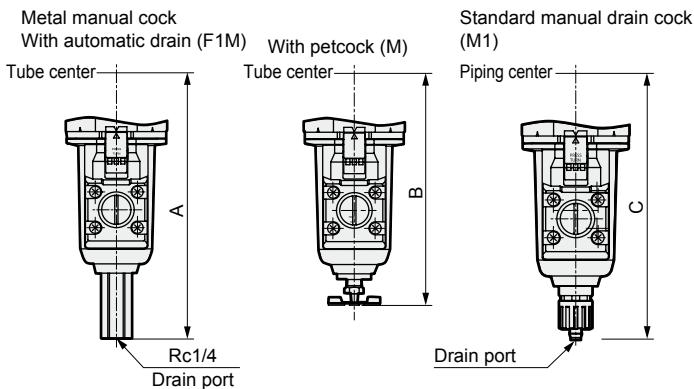
### ● MX8000-W



● For the plastic bowl, the dimensions are the same regardless of whether the manual cock or with automatic drain.

### ● Metal bowl (option)

[MX3000-W, MX4000-W, MX6000-W, MX8000-W]



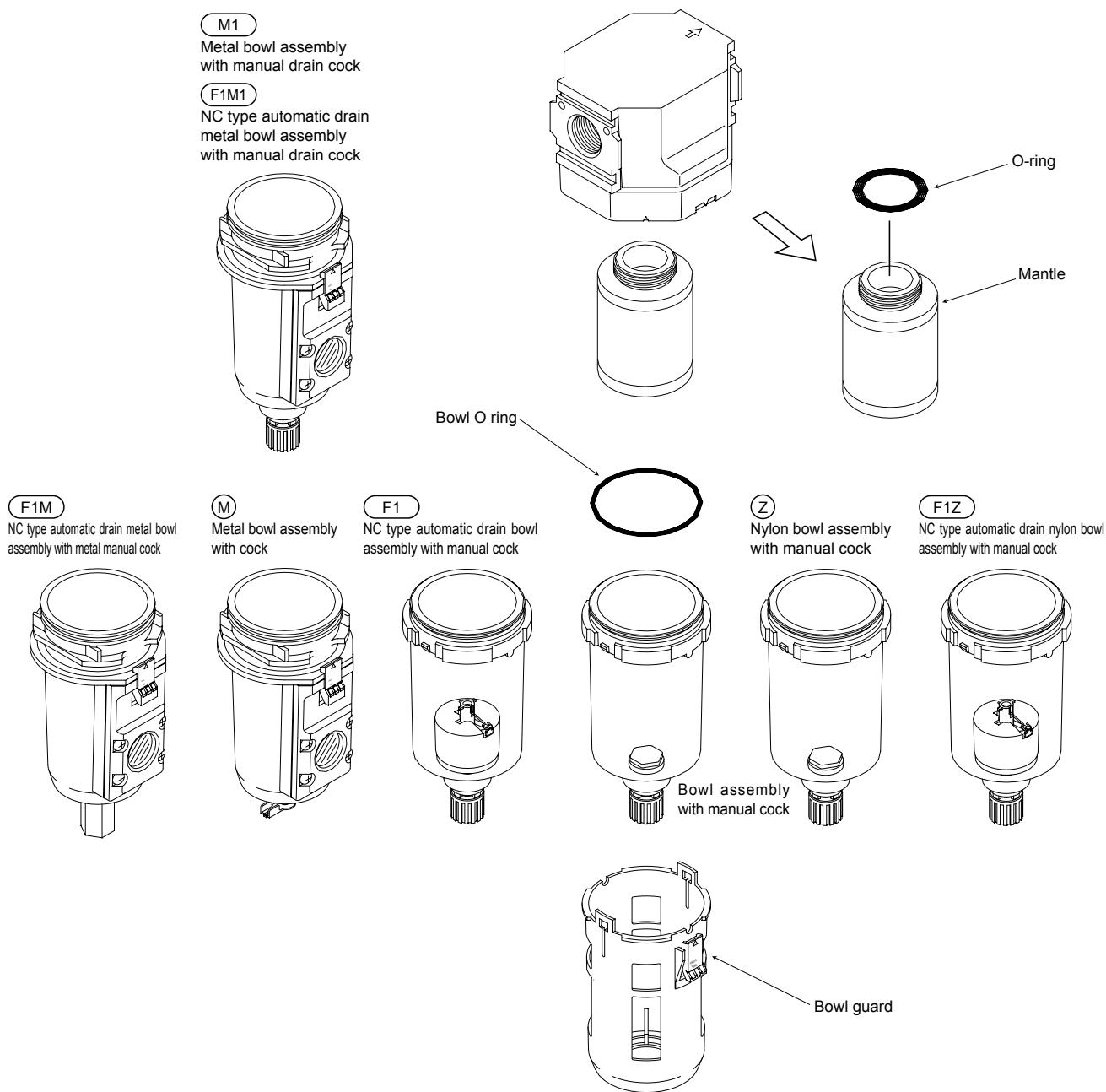
### Dimensions table

Model no.	F1M	M	M1
	A	B	C
MX3000-W	164	143.5	154
MX4000-W	187	166.5	177
MX6000-W	226	205	216
MX8000-W	319	298	309

# Super Oil Mist Filter Series

Optional parts table

## Option parts table for oil mist filter



### Repair kit model no. (Set of O ring, mantle and bowl O ring)

Model	
MX1000-W	MX1000-KIT
MX1000-W-F1	MX1000-KIT-F1
MX3000-W	MX3000-KIT
MX4000-W	MX4000-KIT
MX6000-W	MX6000-KIT
MX8000-W	MX8000-KIT

### Repair kit model no. (Set of O ring and mantle)

Model	
MX1000-W	MX1000-MANTLE-ASSY
MX1000-W-F1	MX1000-MANTLE-ASSY-F1
MX3000-W	MX3000-MANTLE-ASSY
MX4000-W	MX4000-MANTLE-ASSY
MX6000-W	MX6000-MANTLE-ASSY
MX8000-W	MX8000-MANTLE-ASSY

※Refer to the air filter Option and parts table on page 93 and 94 for bowl assy and bowl guard.

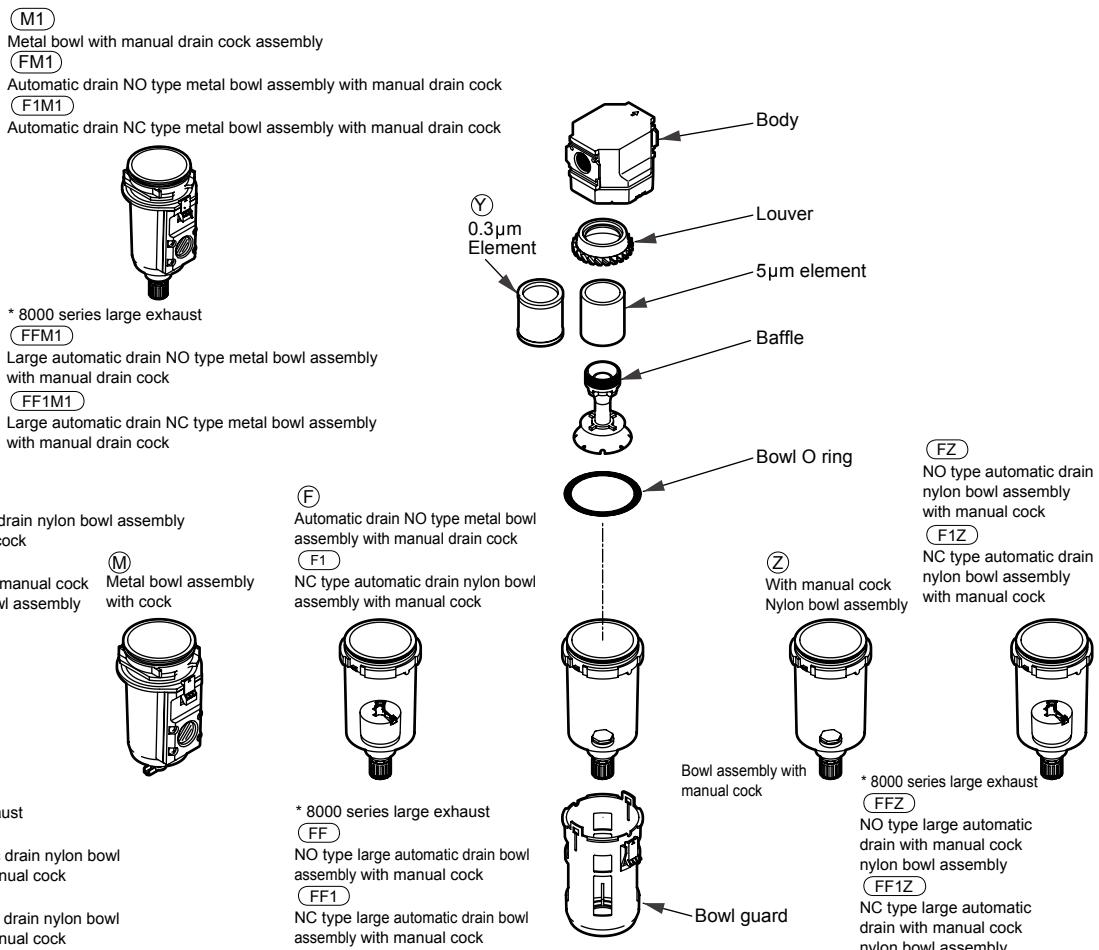
# Air Filter Series

## Optional parts drawing

### Element

Element model no.	5μm Element	0.3μm Element (Y)
Model		
F1000-W	F1000-ELEMENT-ASSY	-
W1000-W, W1100-W	W1000-ELEMENT-ASSY	-
F2000-W	F2000-ELEMENT	-
W2000-W, W2100-W	W2000-ELEMENT	-
F3000-W, FM3000-W	F3000-ELEMENT	F3000-ELEMENT-Y
W3000-W, W3100-W	W3000-ELEMENT	W3000-ELEMENT-Y
F4000-W, FM4000-W	F4000-ELEMENT	F4000-ELEMENT-Y
W4000-W, W4100-W	W4000-ELEMENT	W4000-ELEMENT-Y
F6000-W, FM6000-W	F6000-ELEMENT	F6000-ELEMENT-Y
F8000-W, FM8000-W	F8000-ELEMENT	F8000-ELEMENT-Y
W8000-W, W8100-W	W8000-ELEMENT	W8000-ELEMENT-Y

Note: Baffle and element will be an assembly for F1000-W, W1000-W



### Repair kit

(Se of louver, baffle, element and an O ring for bowl)

Repair kit model no.	5μm Element	0.3μm Element (Y)
Model	Element	Element (Y)
F1000-W Note1	F1000-KIT	-
F2000-W	F2000-KIT	-
F3000-W, FM3000-W	F3000-KIT	F3000-KIT-Y
F4000-W, FM4000-W	F4000-KIT	F4000-KIT-Y
F6000-W, FM6000-W	F6000-KIT	F6000-KIT-Y
F8000-W, FM8000-W Note 2	F8000-KIT	F8000-KIT-Y

Note 1: For F1000-W, the baffle and element are assembled parts, so the set consists of element assembly and bowl O ring.

Note 2: For F8000, consists of baffle, element and bowl O ring.

### Bowl guard

Bowl guard model no.	For polycarbonate bowl	Nylon bowl
Model		
F1000-W, W1000-W, W1100-W	F1000-W-BOWL-GUARD	F1000-W-BOWL-GUARD-Z
L1000-W	L1000-W-BOWL-GUARD	L1000-W-BOWL-GUARD-Z
M1000-W	M1000-W-BOWL-GUARD	M1000-W-BOWL-GUARD-Z
F2000-W, W2000-W, W2100-W	F2000-W-BOWL-GUARD	F2000-W-BOWL-GUARD-Z
W3100-W, F3000-W, W3000-W, M3000-W	F3000-W-BOWL-GUARD	F3000-W-BOWL-GUARD-Z
L3000-W	L3000-W-BOWL-GUARD	L3000-W-BOWL-GUARD-Z
F4000-W, W4000-W, M4000-W, W4100-W, F6000-W, M6000-W, W8100-W, F8000-W, W8000-W, M8000-W	F4000-W-BOWL-GUARD	F4000-W-BOWL-GUARD-Z
L4000-W, L8000-W	L4000-W-BOWL-GUARD	L4000-W-BOWL-GUARD-Z
W8100-W, F8000-W, W8000-W-FF, FF1	DT4000-W-BOWL-GUARD	DT4000-W-BOWL-GUARD-Z

Note: The bowl guard for the 1000 Series F1 is sold as a set with the bowl assembly. The model no. is "F1000-W-BOWL-BOWL-GUARD-F1"

## Bowl assembly (Set of bowl assembly and bowl O ring)

Bowl assembly model no.	PC bowl assembly with manual cock	PA bowl assembly with manual cock	Metal bowl assembly with manual cock	Metal bowl assembly with standard manual cock	NO type automatic drain PC bowl assembly with manual cock Note 1	NC type automatic drain PC bowl assembly with manual cock		
Model								
F1000-W, W1000-W M1000-W, W1100-W	F1000-W-BOWL	F1000-W-BOWL-Z	-	-	-	F1000-W-BOWL-BOWL GUARD-F1 Note 3		
F2000-W, W2000-W M2000-W, W2100-W	F2000-W-BOWL	F2000-W-BOWL-Z	-	F2000-W-BOWL-M1	-	F2000-W-BOWL-F1		
F3000-W, M3000-W W3000-W, W3100-W	F3000-W-BOWL	F3000-W-BOWL-Z	F3000-W-BOWL-M	F3000-W-BOWL-M1	F3000-W-BOWL-F	M3000-W-BOWL-F1		
FM3000-W, MM3000-W	-	-		-	-	-		
F4000-W, F6000-W M4000-W, M6000-W F8000-W, M8000-W W4000-W, W4100-W W8000-W, W8100-W	F4000-W-BOWL	F4000-W-BOWL-Z	F4000-W-BOWL-M	F4000-W-BOWL-M1	F4000-W-BOWL-F	M4000-W-BOWL-F1		
FM4000-W, FM6000-W FM8000-W, MM4000-W MM6000-W, MM8000-W	-	-		-	-	-		
Bowl assembly model no.	NO type automatic drain PA bowl assembly with manual cock Note 1	NC type automatic drain PA bowl assembly with manual cock	NO type automatic drain metal bowl assembly with metal manual cock Note 1	NO type automatic drain metal bowl assembly with standard manual cock	NC type automatic drain metal bowl assembly with metal manual cock	NC type automatic drain metal bowl assembly with standard manual cock	NO type automatic drain bowl assembly for medium pressure Note 1	NC type automatic drain bowl assembly for medium pressure
Model								
F1000-W, W1000-W M1000-W, W1100-W	-	F1000-W-BOWL-BOWL GUARD-F1Z Note 3	-	-	-	-	-	-
F2000-W, W2000-W M2000-W, W2100-W	-	M2000-W-BOWL-F1Z	-	-	-	M2000-W-BOWL-F1M1	-	-
F3000-W, M3000-W W3000-W, W3100-W	F3000-W-BOWL-FZ	M3000-W-BOWL-F1Z	F3000-W-BOWL-FM	F3000-W-BOWL-FM1	M3000-W-BOWL-F1M	M3000-W-BOWL-F1M1	-	-
FM3000-W, MM3000-W	-	-	-	-	-	-	FM3000-W-BOWL-F	MM3000-W-BOWL-F1
F4000-W, F6000-W M4000-W, M6000-W F8000-W, M8000-W W4000-W, W4100-W W8000-W, W8100-W	F4000-W-BOWL-FZ	M4000-W-BOWL-F1Z	F4000-W-BOWL-FM	F4000-W-BOWL-FM1	M4000-W-BOWL-F1M	M4000-W-BOWL-F1M1	-	-
FM4000-W, FM6000-W FM8000-W, MM4000-W MM6000-W, MM8000-W	-	-	-	-	-	-	FM4000-W-BOWL-F	MM4000-W-BOWL-F1
Bowl assembly model no.	NO type large automatic drain PC bowl assembly with manual cock	NC type large automatic drain PC bowl assembly with manual cock	NO type large automatic drain PA bowl assembly with manual cock	NC type large automatic drain PA bowl assembly with manual cock	NO type large automatic drain metal bowl assembly with metal manual cock	NC type large automatic drain metal bowl assembly with metal manual cock	NO type large automatic drain metal bowl assembly with standard manual cock	NC type large automatic drain metal bowl assembly with standard manual cock
Model								
F8000-W, W8000-W W8100-W	F8000-W-BOWL-FF	F8000-W-BOWL-FF1	F8000-W-BOWL-FFZ	F8000-W-BOWL-FF1Z	F8000-W-BOWL-FFM	F8000-W-BOWL-FF1M	F8000-W-BOWL-FFM1	F8000-W-BOWL-FF1M1

Note 1: NO type automatic drain is not available for oil mist filter M1000-W, M3000-W, M4000-W, M6000-W, M8000-W, oil mist filter for medium pressure MM3000-W, MM4000-W, MM6000-W, MM8000-W.

Note 2: The large discharge automatic drain cannot be installed on the M8000-W.

Note 3: The bowl assembly for the 1000 Series F1 is sold as a set with the bowl guard.