



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 ³	3	25	45	80	80	80
Port size Rc, PT,	1/8, 1/4 (3/8 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	0.25	0.28	0.52	0.95	1.35
Standard accessories	Bowl guard					

Mantle option name	Blank (M type)	S (S type)	X (X type)
Maximum flow rate Note 1	150 Note 7	150 Note 7	150
ℓ/min (ANR)	250 Note 7	310 Note 7	310
Primary pressure 0.7 MPa	360	450	450
at pressure drop 0.01MPa	825	1000	1000
	1270	1400	1400
	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 ³	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/m³ 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

Specification for LiB production

(Catalog No. CC-947)

● Specification for LiB manufacturing process

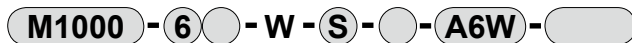
M*000 - - **P7***

M*000 - - **P4***

Oil Mist Filter Series

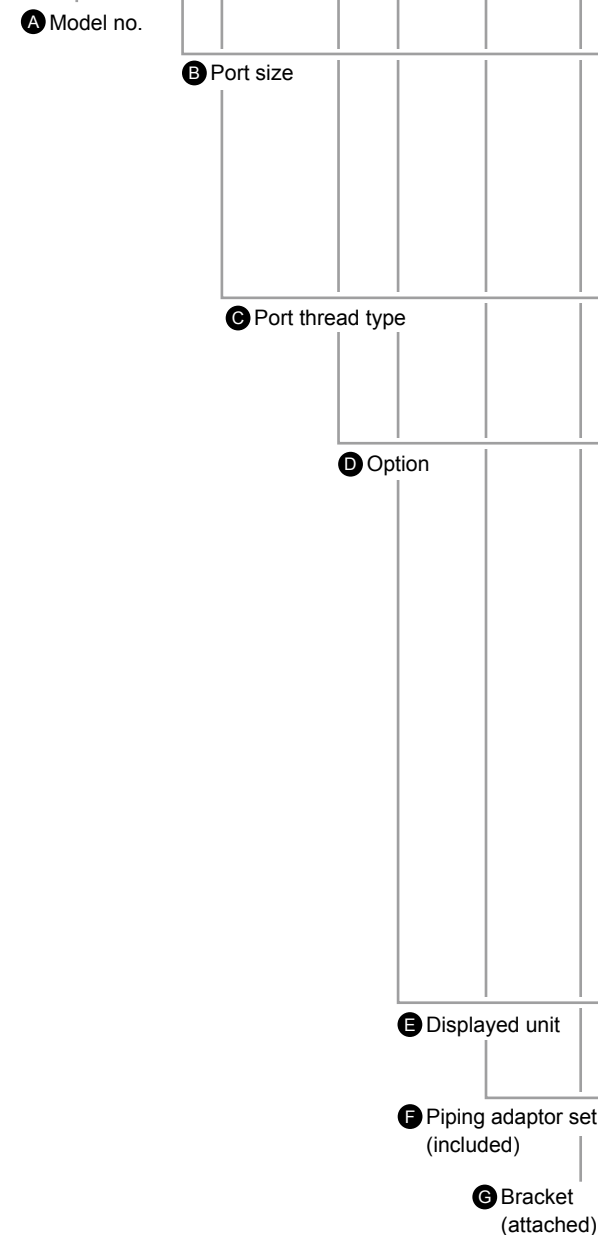
How to order

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	M	M	M	M	M	M
B Port size							
6	1/8	●					
8 Note 8	1/4	●	●	●	●		
10	3/8		●	●	●		
15	1/2				●		
20	3/4					●	●
25	1					●	●
C Port thread type							
Note 1							
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●
D Option							
Note 2							
Drainage Note 3, Note 4	Blank	With manual drain cock	●	●	●	●	●
	F1	Automatic drain with manual override (NC type)	●	●	●	●	●
Bowl material	Blank	Polycarbonate bowl	●	●	●	●	●
	Z	Nylon bowl	●	●	●	●	●
	M Note 6	Metal bowl			●	●	●
Mantle (element)	M1	Metal bowl with manual drain cock		●	●	●	●
	Blank	M type (nominal 0.01 μm; remaining oil 0.01 mg/m ³)	●	●	●	●	●
	S	S type (0.3 μm; remaining oil 0.5 mg/m ³)	●	●	●	●	●
Differential pressure detection	X Note 5	X type (deodorization; remaining oil 0.003mg/m ³)	●	●	●	●	●
	Blank	Without differential pressure detection port	●	●	●	●	●
Differential pressure indicator	Q	With differential pressure detection port (Rc1/4)				●	●
	Blank	Without differential pressure indicator	●	●	●	●	●
	Q1 Note 5, Note 6	With differential pressure indicator				●	
Flow direction	Blank	Standard flow (left to right)	●	●	●	●	●
	X1	Reverse flow (right to left)	●	●	●	●	●
E Displayed unit							
Blank	MPa display, Rc thread	●	●	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●	●	●
F Piping adaptor set (included) Note 7 pages 155 to 157 Note 9							
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					●	●
* Adaptor thread type							
Blank	Rc thread	●	●	●	●	●	●
N	NPT thread	●	●	●	●	●	●
G	G thread	●	●	●	●	●	●
G Bracket (attached) Page 152							
Blank	Not attached	●	●	●	●	●	●
BW	C type bracket	●	●	●	●	●	●

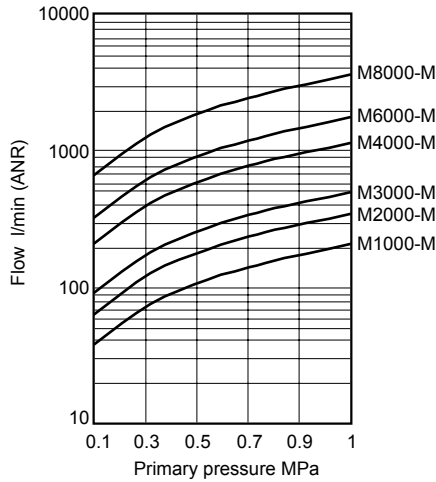
⚠ Cautions for model No. selection

- 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.

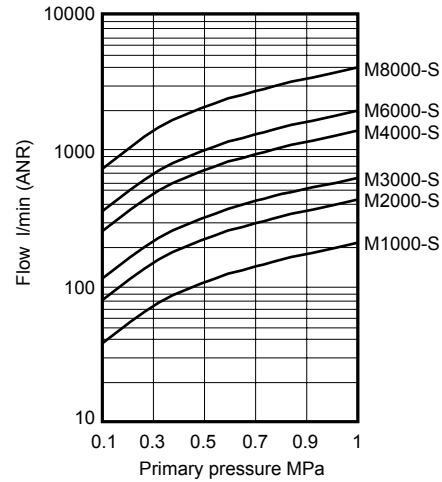
Oil Mist Filter Series

Flow characteristics (Maximum flow rate)

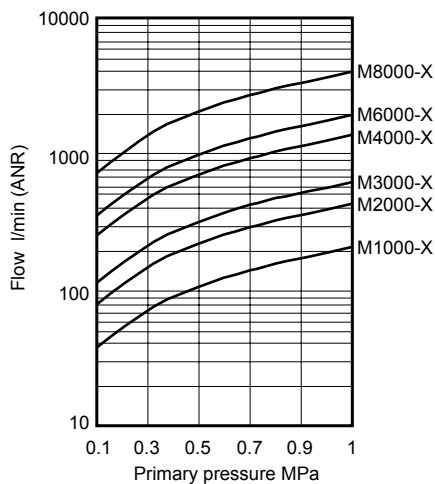
● M*000-W-M



● M*000-W-S

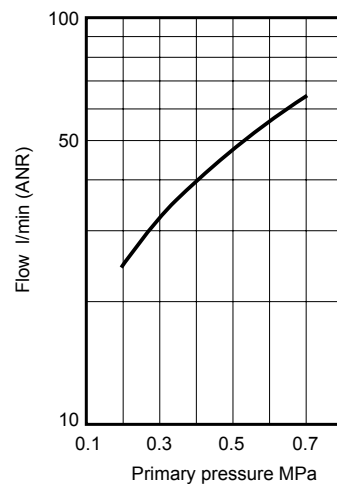


● M*000-W-X



● M1000-W-F1

With automatic drain (M type, S type)



Selecting optional mantle for oil mist filters

Recommended circuit

◆ S type

F S

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

F S M

Oil free air

· Instrumentation

· Measurement

· Sequence control

· Movable element, pure fluid element

· Luxury painting

· Precision

◆ X type

F S M X

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.

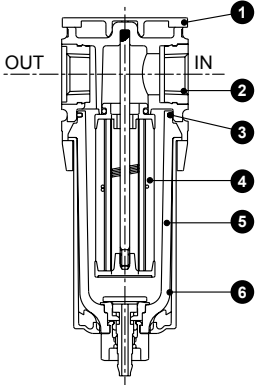
When placing an order, confirm the option symbol for the part model given here.

Oil Mist Filter Series

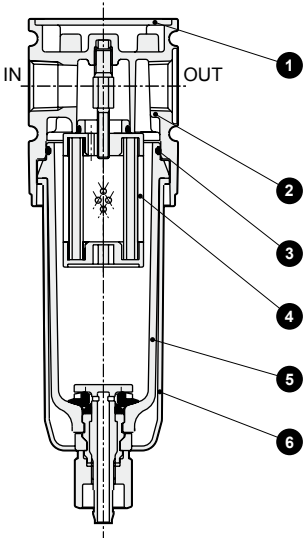
Internal structure and parts list

Internal structure and parts list

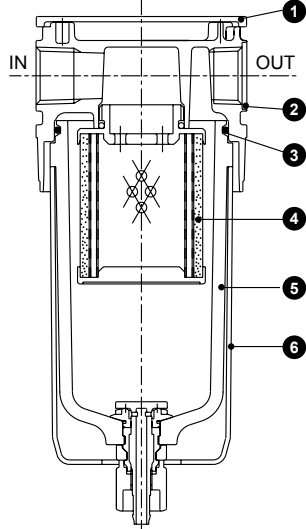
● M1000-W



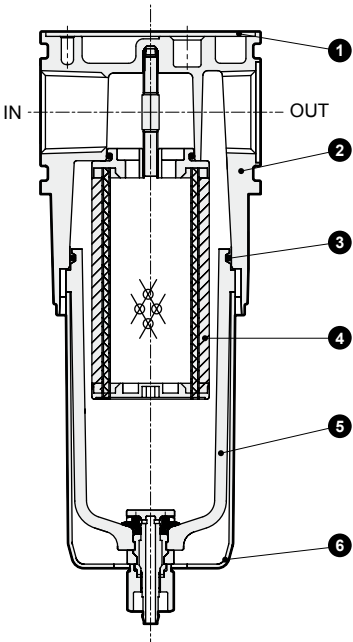
● M2000-W



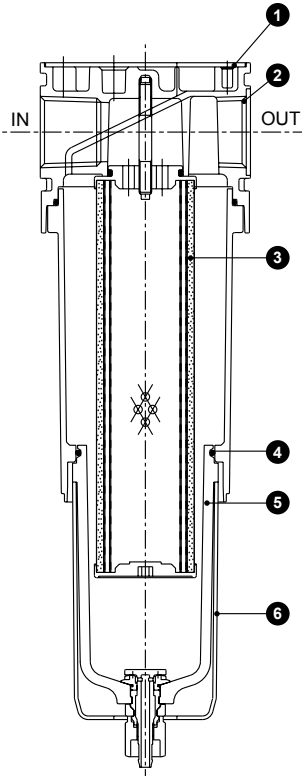
● M3000-W·M4000-W



● M6000-W



● M8000-W



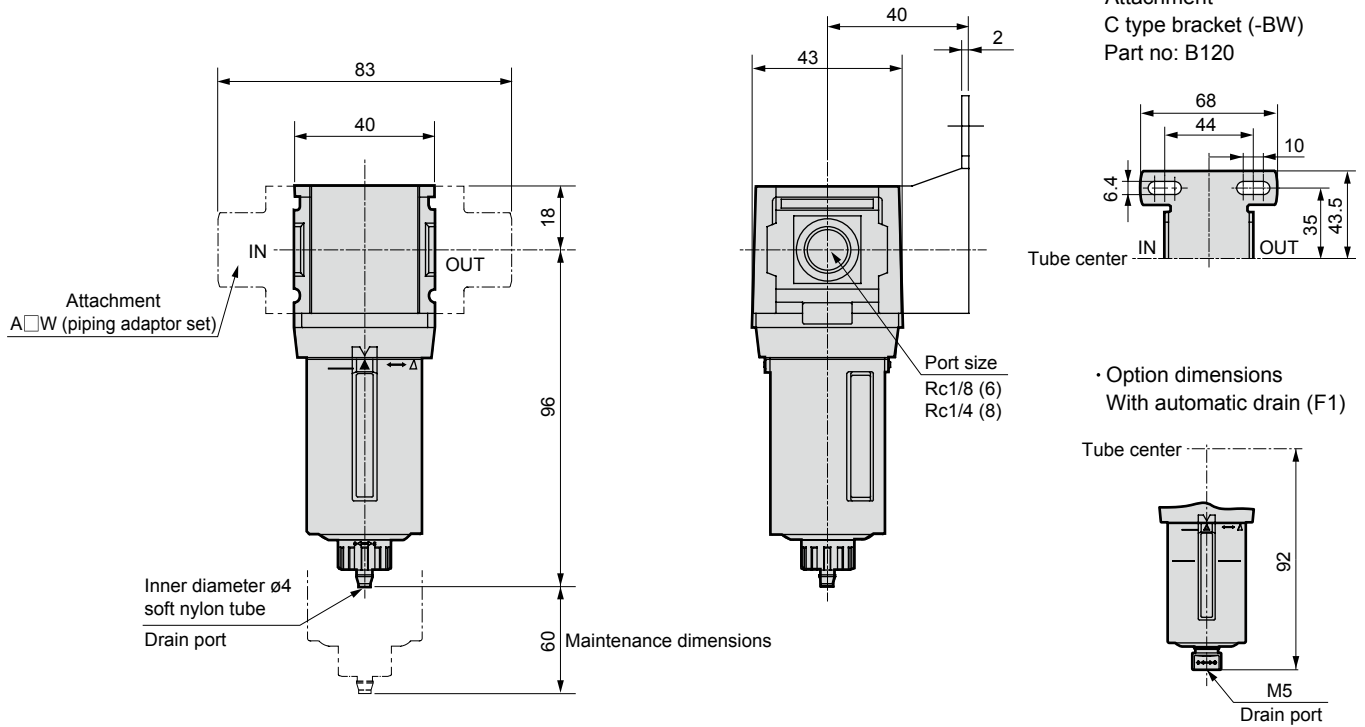
No.	Part name	Material					
		M1000-W	M2000-W	M3000-W	M4000-W	M6000-W	M8000-W
1	Plate cover	ABS resin					
2	Body	Polyamide resin	Aluminum alloy die-casting				
3	O-ring Note 1	Special nitrile rubber					
4	Mantle assembly	-					
5	Bowl assembly	Polycarbonate resin, polyacetal resin, urethane resin	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

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

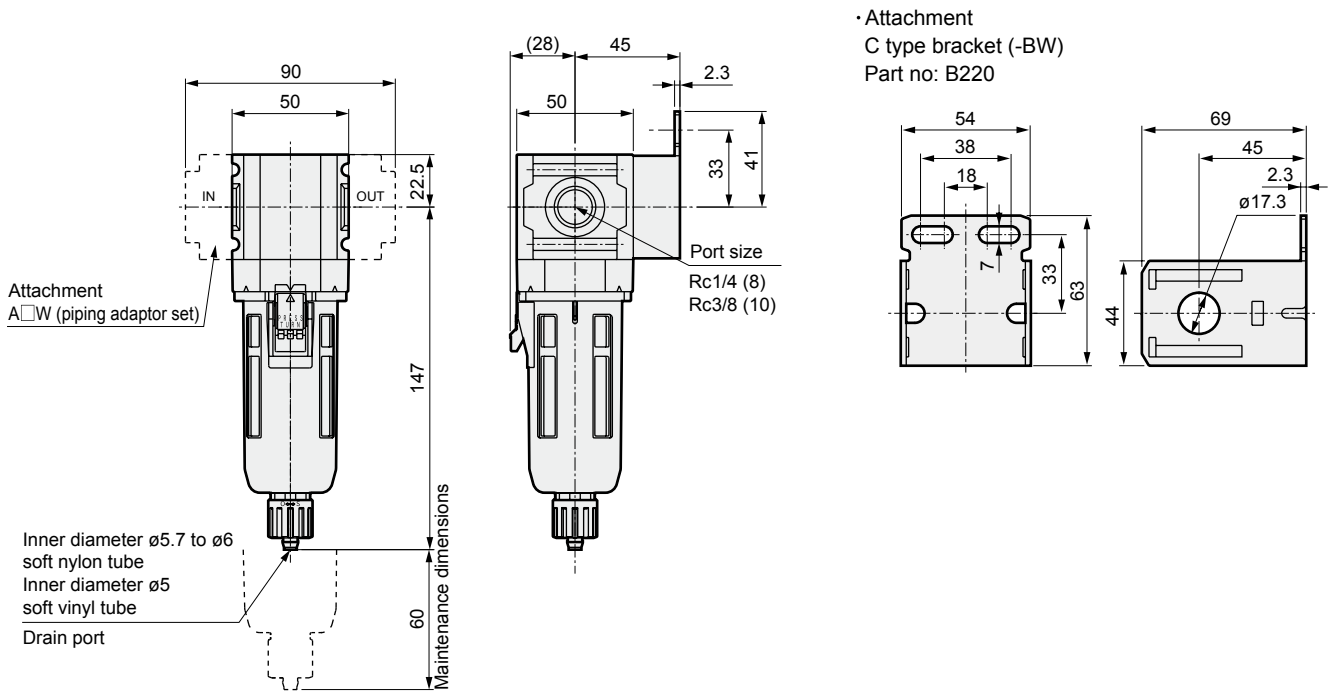
Oil Mist Filter Series

Dimensions

● M1000-W

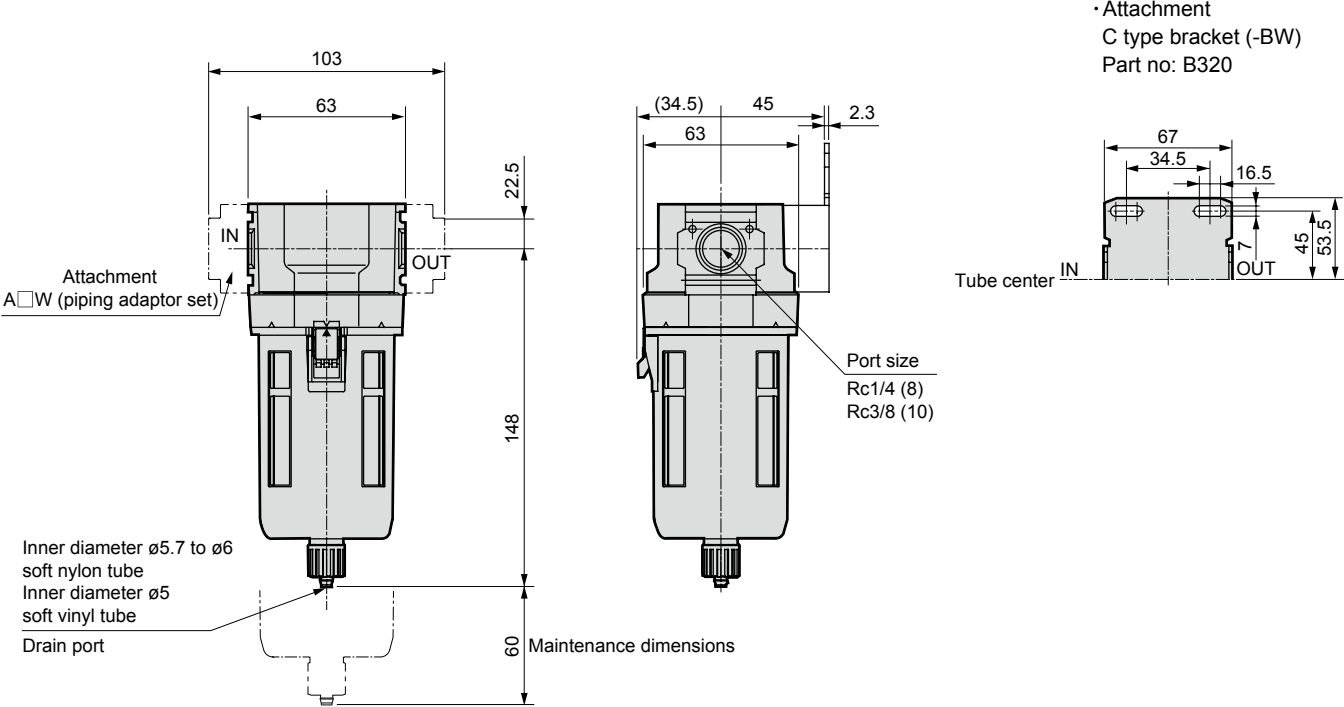


● M2000-W



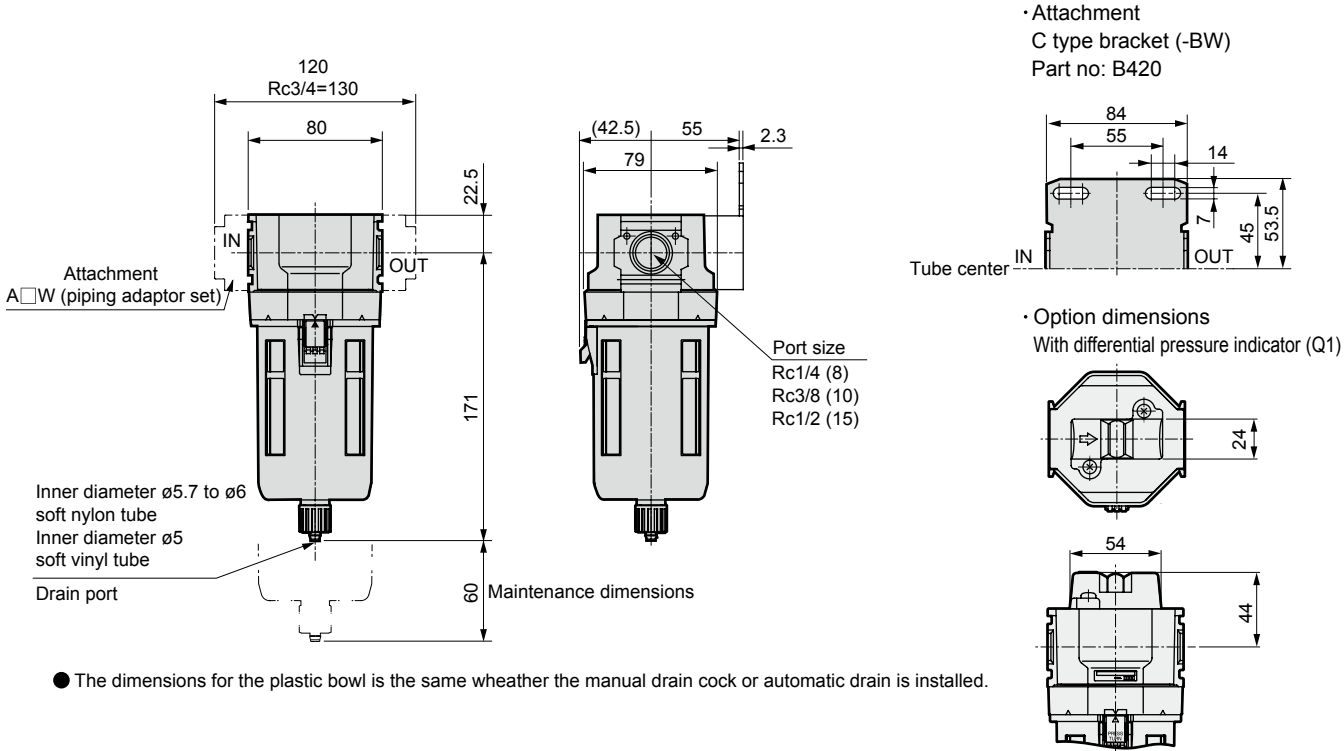
Dimensions

● 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 adaptor set attachments cannot be used at the same time.

● M4000-W

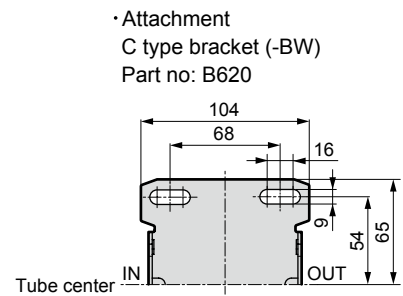
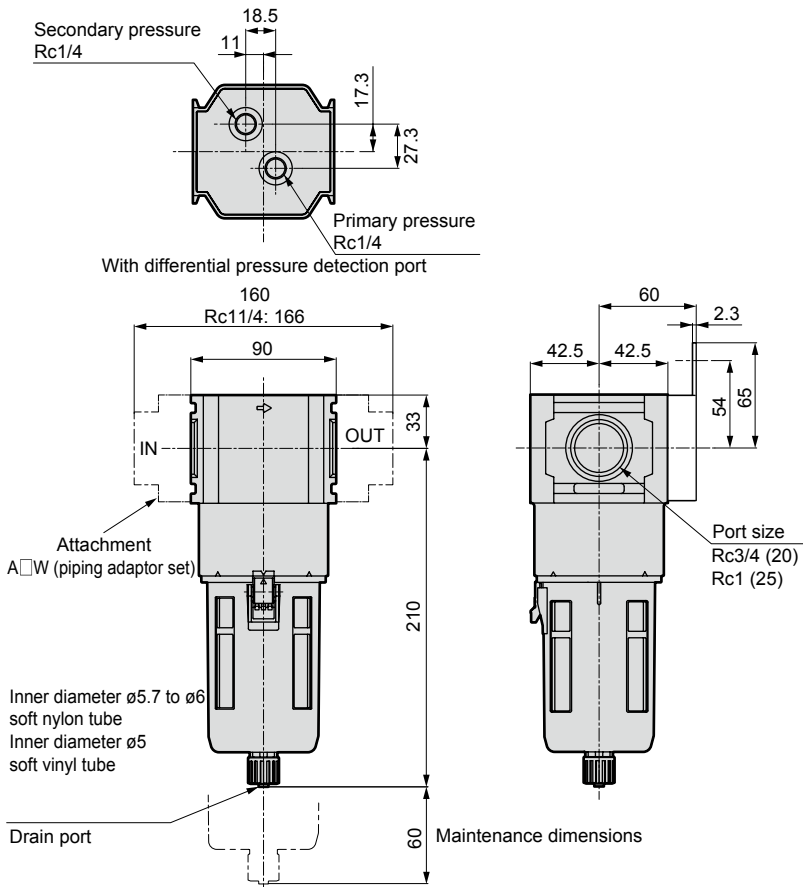


● The dimensions for the plastic bowl is the same whether the manual drain cock or automatic drain is installed.

Oil Mist Filter Series

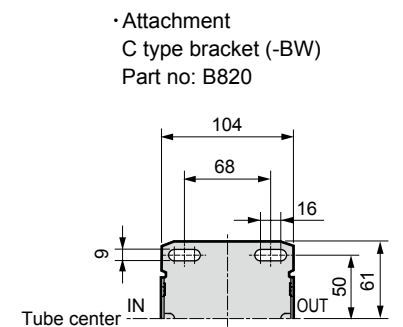
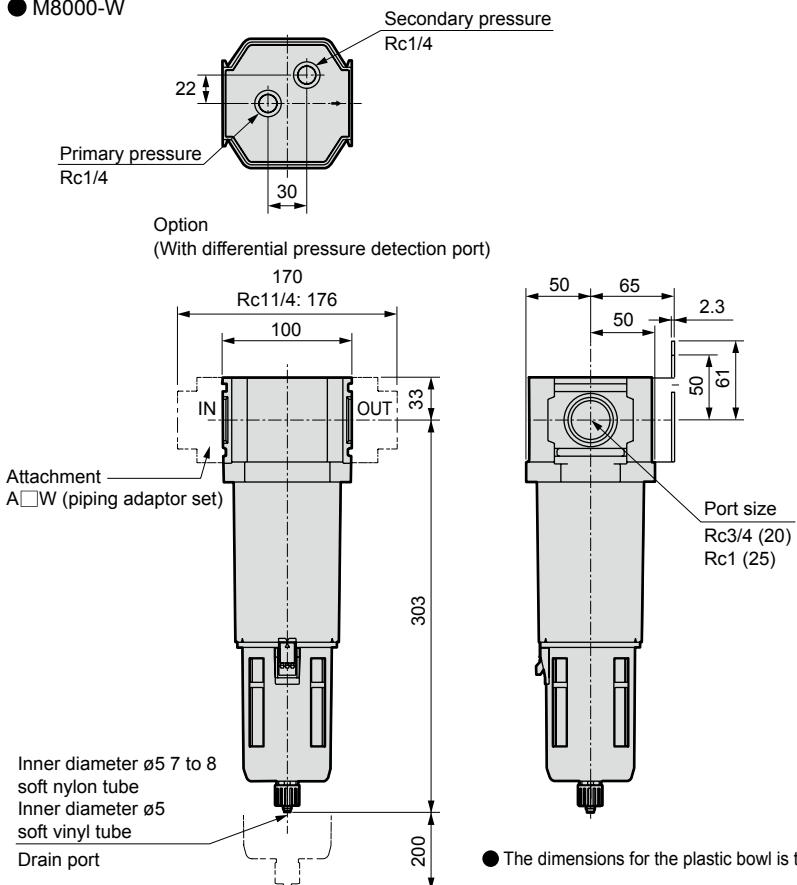
Dimensions

● M6000-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.

● M8000-W



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

Option dimensions



● Metal bowl (option)

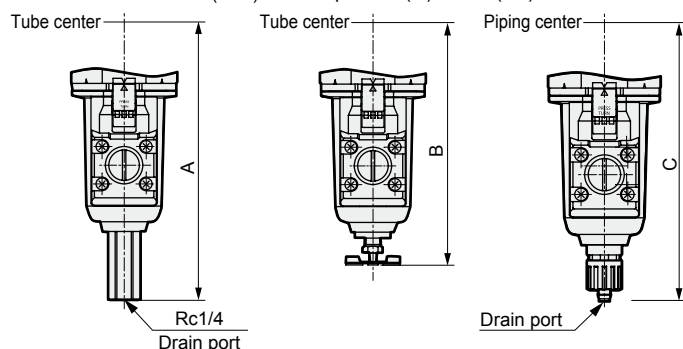
(M2000-W, M3000-W, M4000-W, M6000-W, M8000-W)

Metal manual cock

With automatic drain (F1M)

With petcock (M)

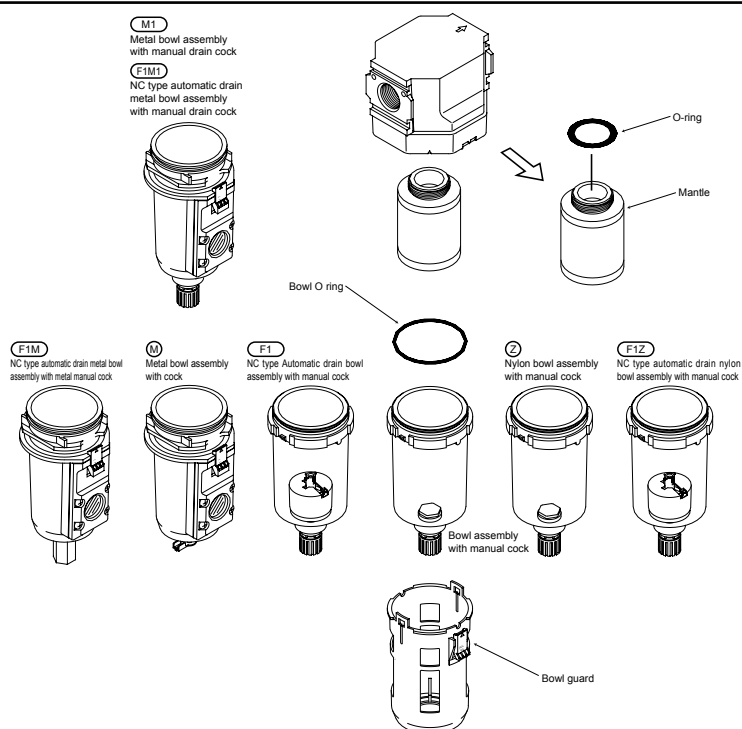
Standard manual drain cock (M1)



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)

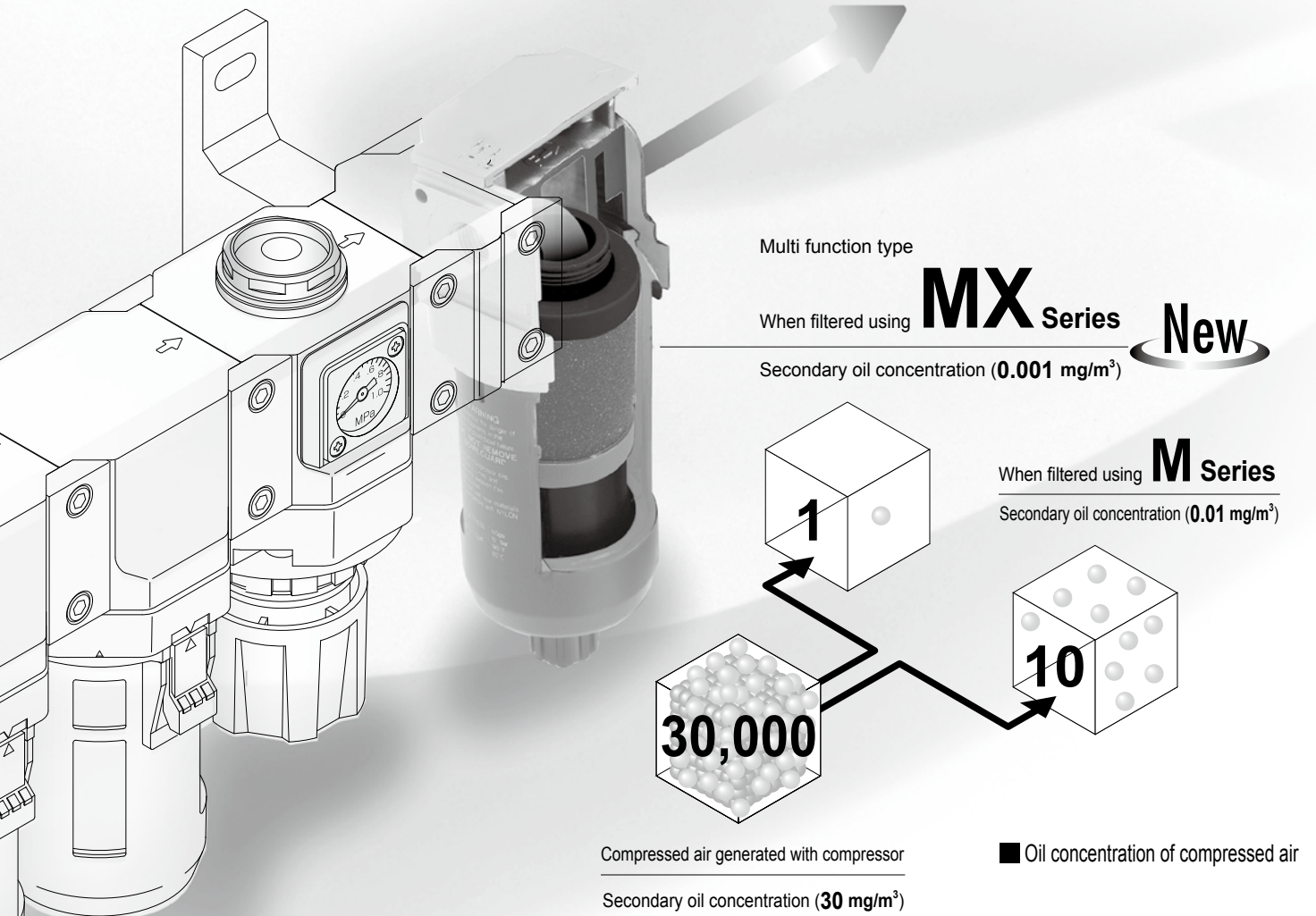
Model	M type	S type	X type
M1000-W	M1000-MANTLE-ASSY	M1000-MANTLE-ASSY-S	M1000-MANTLE-ASSY-X
M1000-W-F1	M1000-MANTLE-ASSY-F1	M1000-MANTLE-ASSY-F1S	-
M2000-W	M2000-MANTLE-ASSY	M2000-MANTLE-ASSY-S	M2000-MANTLE-ASSY-X
M3000-W, MM3000-W	M3000-MANTLE-ASSY	M3000-MANTLE-ASSY-S	M3000-MANTLE-ASSY-X
M4000-W, MM4000-W	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.

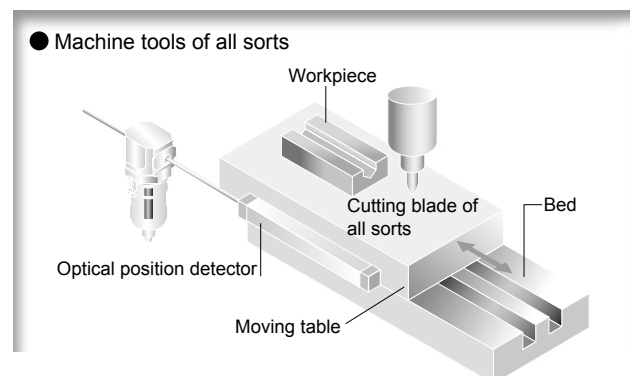
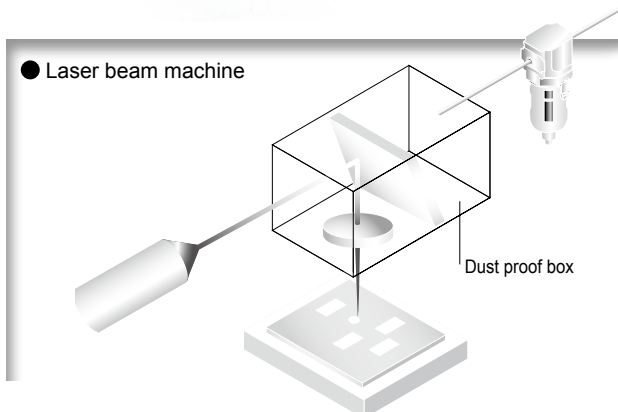
High-performance with x10 oil removal.

Highly efficient oil removing mantle removes oil up to a secondary oil concentration 0.001 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

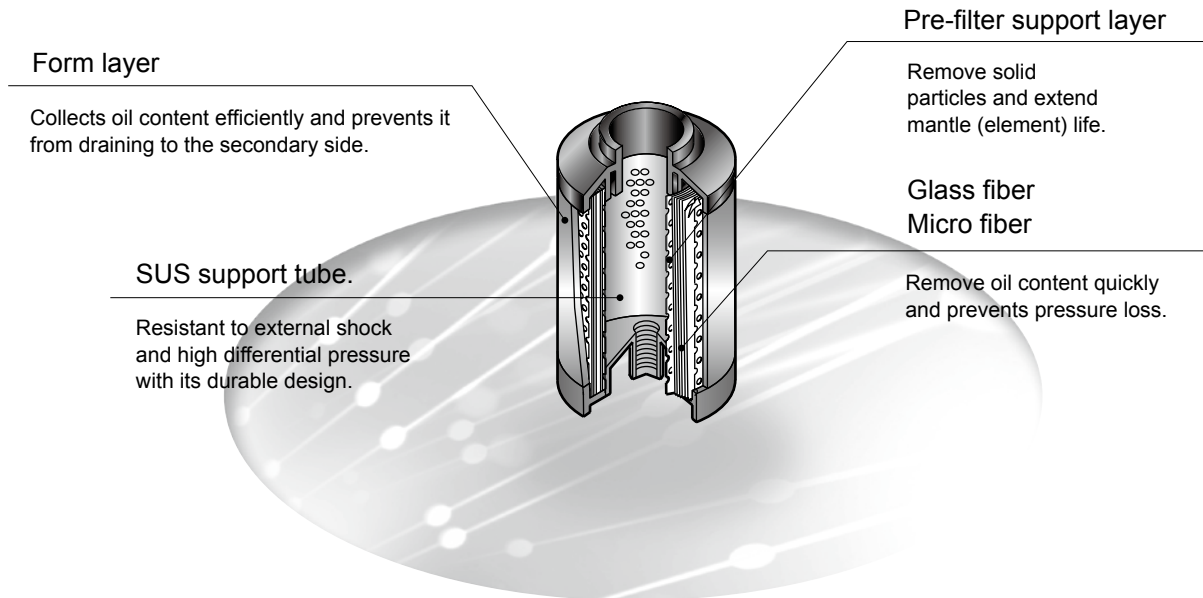
This series is ideal for applications requiring high-purity oilfree air, including laser processing systems, optical positioning units, and foodstuff and pharmaceutical manufacturing lines.



High performance oil mist filter

MX Serie

■ Mantle structural explanation



Secondary oil concentration 0.001mg/m³ or less

The highly efficient oil removing mantle removes oil up to the secondary oil concentration of 0.001 mg/m³ at 21°C. This series is compatible with the JIS Standards Oil Class 1.

High precision filtration

Removes impurities down to 0.01µm.

Long service life, low pressure loss

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

Modular connection possible

A system is configured with module connections in the same manner as the conventional filter F Series and oil mist filter M Series.

Diverse models

Five types -- MX1000, 3000, 4000, 6000, and 8000 --are available for different flow.

Suitable for clean room

P70 Series available.
(3000, 4000, 6000 Series available)

High performance oil mist filter MX Series variations

	Filtration rating µm	Secondary oil concentration mg/m ³ (21°C時)	Treating flow rate ℓ/min					Ambient temperature range °C	
			1000 Series	3000 Series	4000 Series	6000 Series	8000 Series		
MX Series	0.01	0.001 or less	75	180	370	670	1490	5 to 60	
M Series	M Type	0.01	0.01 or less	150	360	825	1270	2600	5 to 60
	S Type	0.3	0.5 or less	150	450	1000	1400	2900	5 to 60
	X Type	Activated carbon	0.003 or less	150	450	1000	1400	2900	5 to 30

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/m³ Secondary oil concentration (0.001mg/m³)

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 ³	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 ³	3	45	80	80	80
Port size Rc, PT,	1/8, 1/4 (3/8 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/m³, 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



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

A Model no.

B Port size

C Port thread type

D Port thread type

E Displayed unit

F Piping adaptor set (included)

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 Port size						
6	1/8	●				
8	1/4	●	●	●		
10	3/8		●	●		
15	1/2			●		
20	3/4				●	●
25	1				●	●

C Port thread type		Note 1				
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●

D Option			Note 2				
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	M1	Metal bowl with manual drain cock		●	●	●	●
	Blank	Without differential pressure detection port	●	●	●	●	●
	Q	With differential pressure detection port (Rc1/4)				●	●
Flow Direction	Blank	Standard flow (left to right)	●	●	●	●	●
	X1	Reverse flow (right to left)	●	●	●	●	●

E Displayed unit						
Blank	MPa display, Rc thread	●	●	●	●	●
J1	MPa display, NPT, G thread	●	●	●	●	●

F Piping adaptor set (included)		Note 5	pages 155 to 157	Note 6				
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					●	●	

* Adaptor thread type						
Blank	Rc thread	●	●	●	●	●
N	NPT thread	●	●	●	●	●
G	G thread	●	●	●	●	●

G Bracket (attached)		Page 152				
Blank	Not attached	●	●	●	●	●
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.

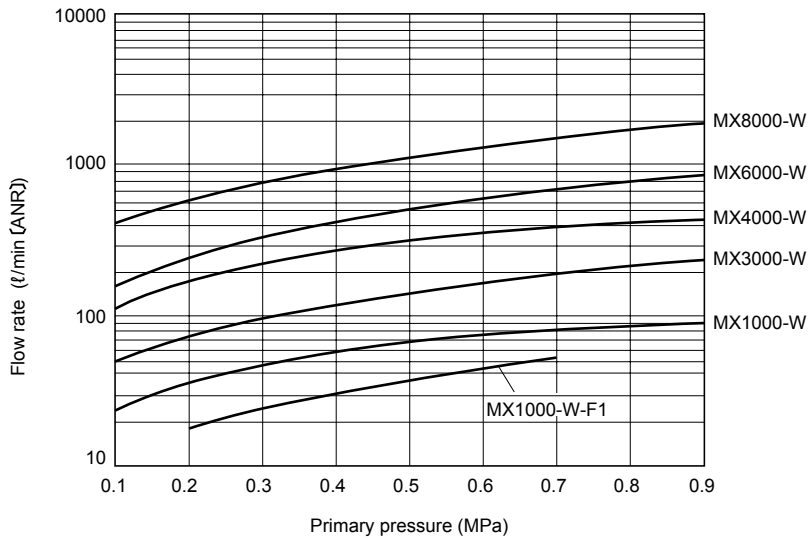
Note 5: Piping adaptor set and C type bracket cannot be used together.

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

Super Oil Mist Filter Series

Flow characteristics (Maximum flow rate)

● MX*000-W



Selecting optional mantle for oil mist filters

Recommended circuit

Applications

◆ S type



General industrial air
(Secondary side air content
0.5mg/m³ 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/m³ 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/m³ 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/m³ or less)

- Optical positioning equipment
- Laser machining

Option symbol and shape of mantles

	Option symbol	Appearance
M※000-W	Blank (M type)	End plate black Plastic foam red
	S (S type)	End plate green Plastic foam red
	X (X type)	End plate black Punching metal
MX*000-W		Black End plate Green Plastic foam Red

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.

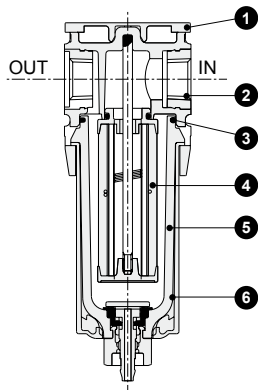
CAUTION: Secondary oil content is measured at inlet air temperature of 21 degrees Celsius and primary oil content of 30mg/m³.

Super Oil Mist Filter Series

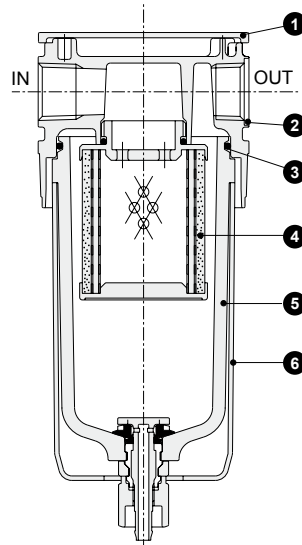
Internal structure and parts list

Internal structure and parts list

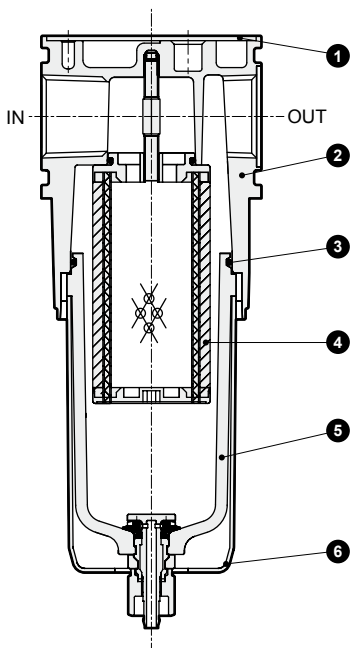
● MX1000-W



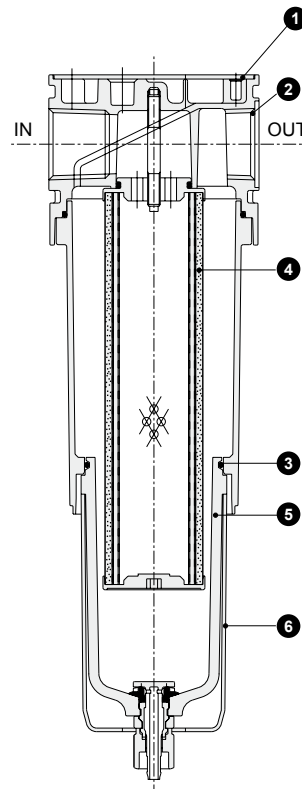
● MX3000-W·MX4000-W



● MX6000-W



● MX8000-W



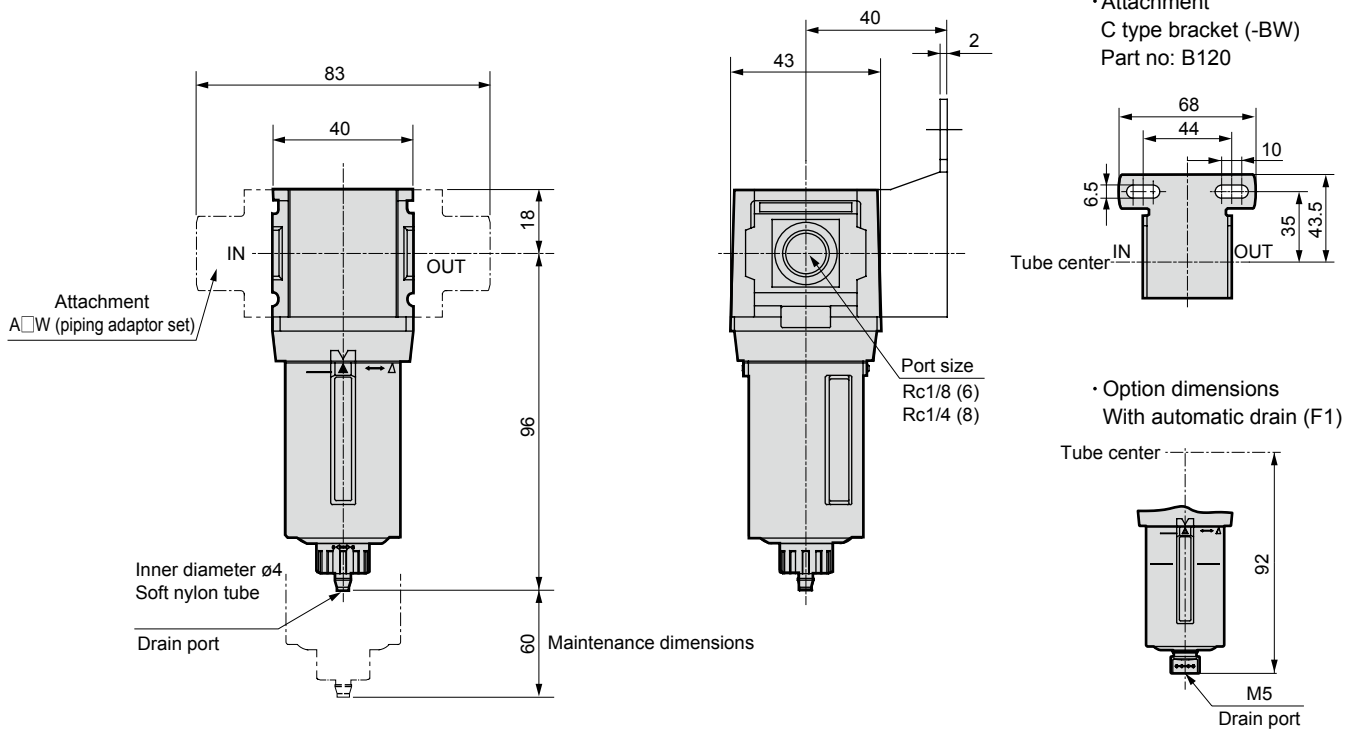
No.	Part name	Material				
		MX1000-W	MX3000-W	MX4000-W	MX6000-W	MX8000-W
1	Plate cover	ABS resin				
2	Body	Polyamide resin	Aluminum alloy die-casting			
3	O-ring Note 1	Special nitrile rubber				
4	Mantle assembly	-				
5	Bowl assembly	Polycarbonate resin, polyacetal resin, urethane resin				
6	Bowl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

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

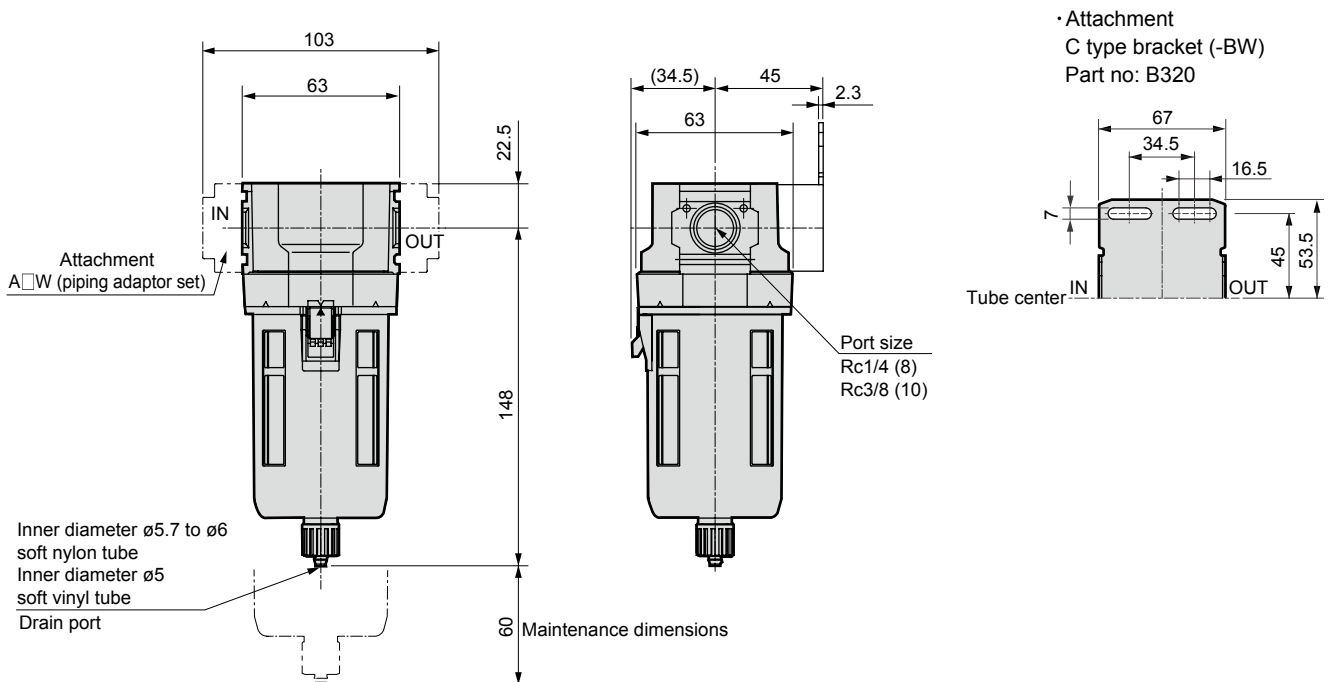
Super Oil Mist Filter Series

Dimensions

● MX1000-W



● MX3000-W



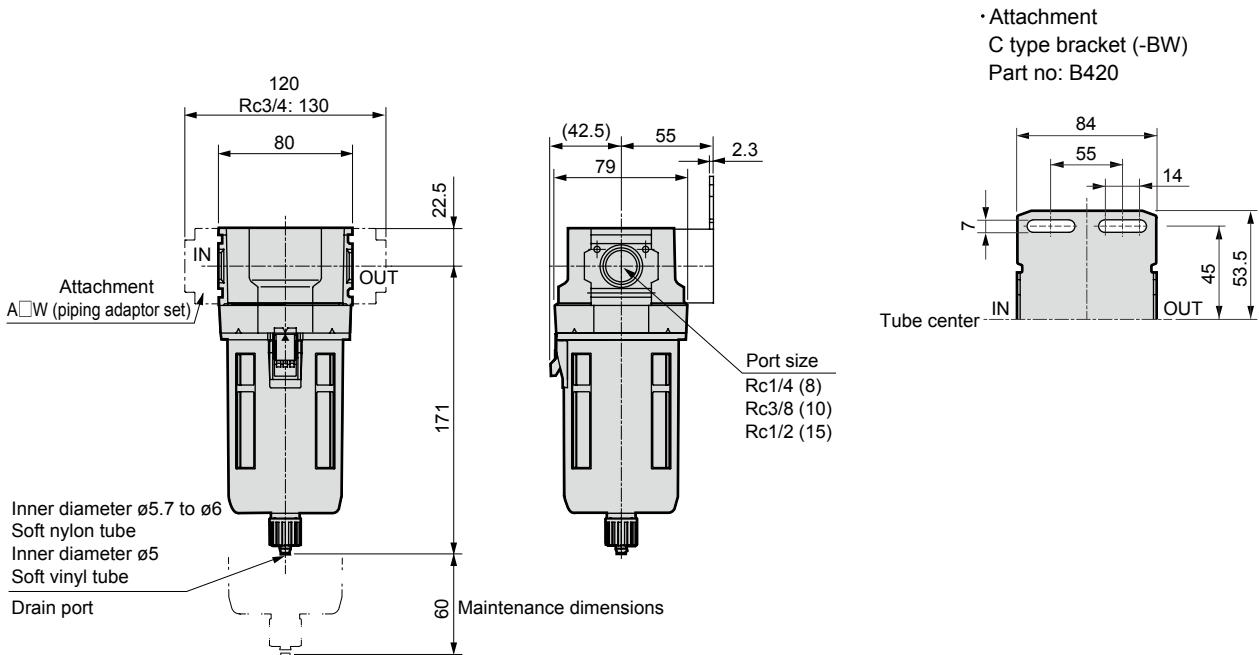
● The dimensions for the plastic bowl is the same whether the manual drain cock or automatic drain is installed.
Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

Super Oil Mist Filter series

Dimensions

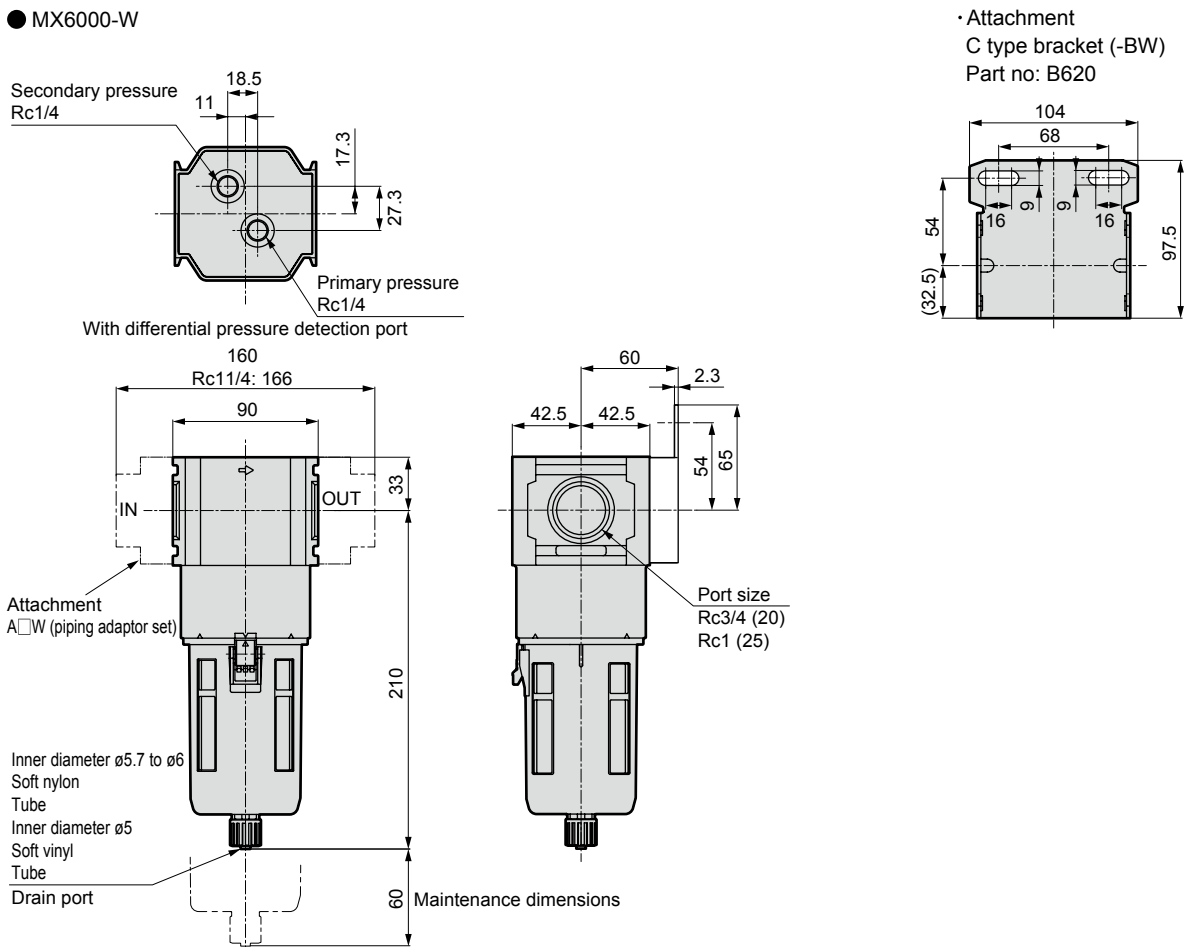
Dimensions

● MX4000-W



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

● MX6000-W

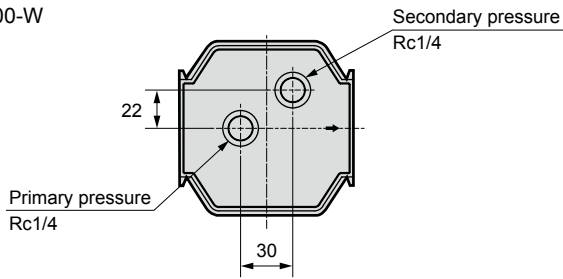


● The dimensions for the plastic bowl is the same whether the manual drain cock or automatic drain is installed.
Note: The C-type bracket and piping adapter set attachments cannot be used at the same time.

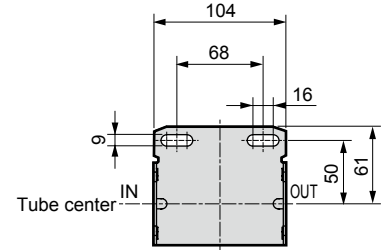
Super Oil Mist Filter Series

Dimensions

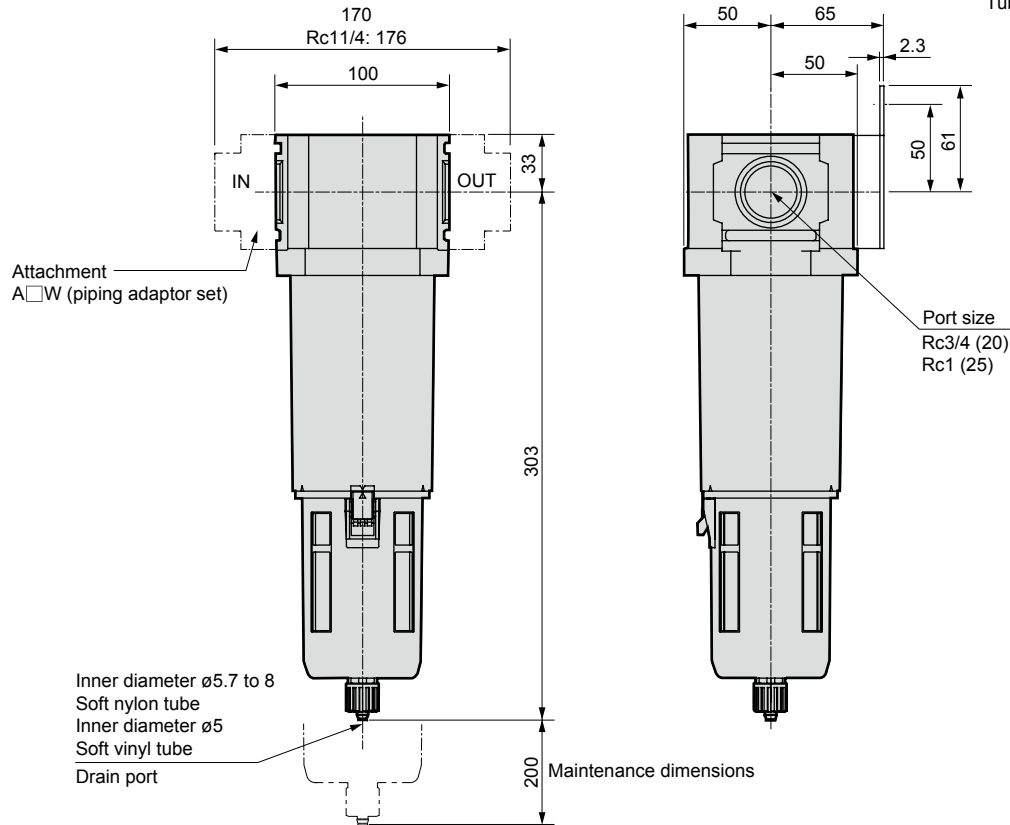
● MX8000-W



• Attachment
C type bracket (-BW)
Part no: B820



Option
(With differential pressure detection port)



● 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]

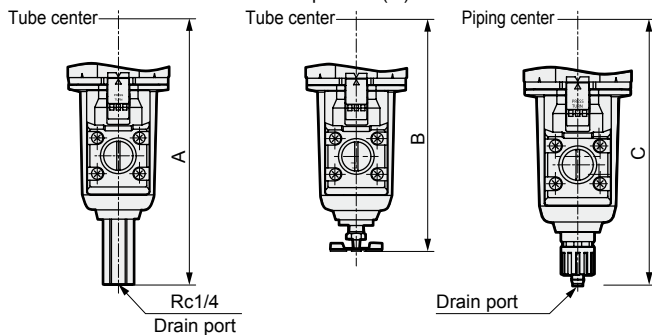
Metal manual cock

With automatic drain (F1M)

With petcock (M)

Standard manual drain cock

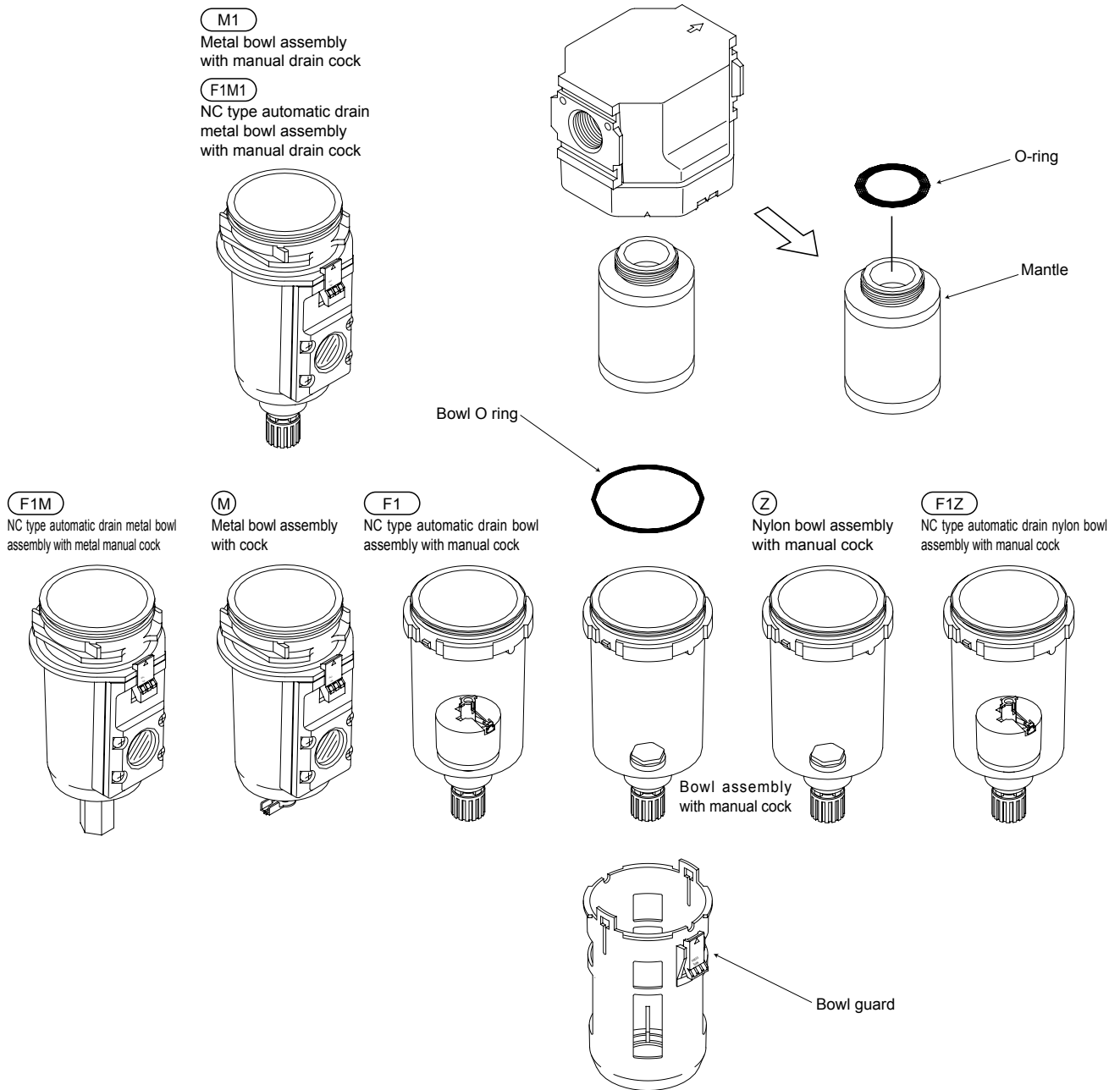
(M1)



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

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. Model	5µm Element	0.3µm Element (Y)
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

(M1)

Metal bowl with manual drain cock assembly

(FM1)

Automatic drain NO type metal bowl assembly with manual drain cock

(F1M1)

Automatic drain NC type metal bowl assembly with manual drain cock



* 8000 series large exhaust

(FFM1)

Large automatic drain NO type metal bowl assembly with manual drain cock

(FF1M1)

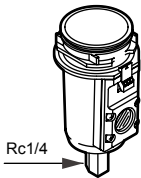
Large automatic drain NC type metal bowl assembly with manual drain cock

(FM)

NO type automatic drain nylon bowl assembly with metal manual cock

(F1M)

NC type with metal manual cock Automatic drain bowl assembly



* 8000 series large exhaust

(FFM)

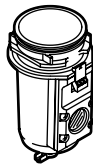
NO type large automatic drain nylon bowl assembly with metal manual cock

(FF1M)

NC type large automatic drain nylon bowl assembly with metal manual cock

(M)

Metal bowl assembly with cock



(F)

Automatic drain NO type metal bowl assembly with manual drain cock

(F1)

NC type automatic drain nylon bowl assembly with manual cock



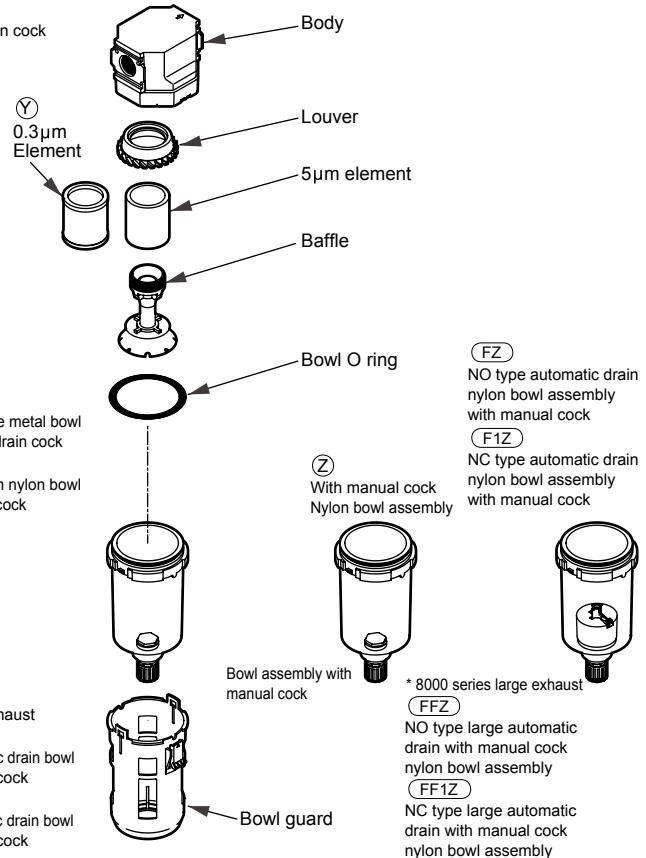
* 8000 series large exhaust

(FF)

NO type large automatic drain bowl assembly with manual cock

(FF1)

NC type large automatic drain bowl assembly with manual cock



Repair kit

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

Repair kit model no. Model	5µm Element	0.3µm 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. Model	For polycarbonate bowl	Nylon bowl
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. Model	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
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. Model	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 with standard manual cock metal bowl assembly	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
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. Model	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
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.