Super Mist Separator
Series *AME*

Can separate and adsorb aerosol state fine oil particles in compressed air and change the oil lubricating compressed air to oilless air or equivalent.

Use this product for filtration of compressed air requiring higher clean air for painting lines, compressed air for clean rooms and/or equipment where oils must be avoided.

Indicates the filter element life by a color change. Accordingly, the replacement time can be judged visually. (A red color spot indicates the replacement time.)

⚠ Caution
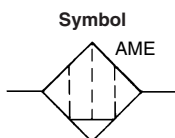
By all means the "AM" series should be used as a pre-filter.

Modular connection is possible with AME150C to 550C.
(For details, refer to page 61.)

AME150C to 350C   AME450C/550C

AME650/850

Symbol
AME

Made to Order
(For details, refer to page 67.)

Model

Model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
Rated flow (ℓ/min (ANR)) Note)	200	500	1000	2000	3700	6000	12000
Port size	1/8, 1/4	1/4, 3/8	3/8, 1/2	1/2, 3/4	3/4, 1	1, 1 1/2	1 1/2, 2
Mass (kg)	0.3	0.48	0.8	1.3	2.0	4.2	10.5

Note) Max. flow at 0.7 MPa.
Max. flow varies depending on the operating pressure.
Refer to "Flow Characteristics" (page 47) and "Maximum Air Flow" (page 47).

Specifications

Fluid	Compressed air
Max. operating pressure	1.0 MPa
Min. operating pressure	0.05 MPa
Proof pressure	1.5 MPa
Ambient and fluid temperature	5 to 60°C
Nominal filtration rating	0.01 µm (Filtration efficiency: 99.9%)
Cleanliness at outlet	Less than 100 particles of 0.3 µm or larger per cubic foot [Less than 35 particles per 10 liters (ANR)]
Oil mist density at outlet	Max. 0.01 mg/m³ (ANR) (≈0.008 ppm)
Element life	Element color indicator (Replace the element when a red color spot occurred on the surface.)

Accessory

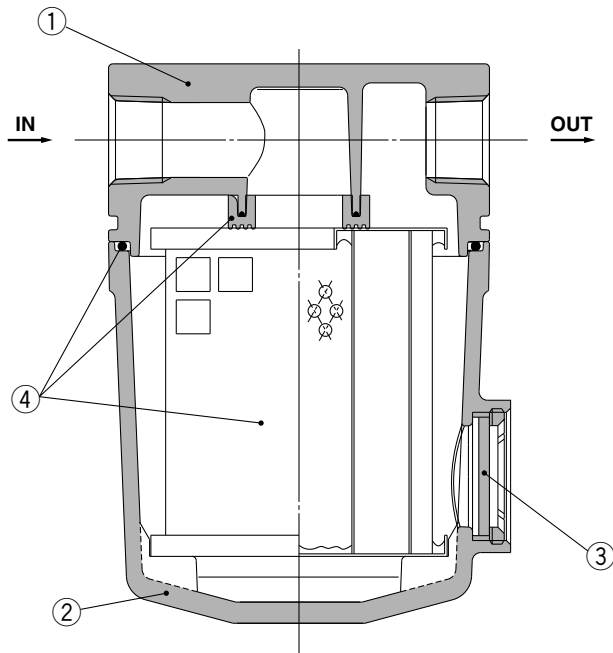| Applicable model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
Bracket assembly (with 2 mounting screws)	AM-BM101	AM-BM102	AM-BM103	AM-BM104	AM-BM105	BM56	BM57

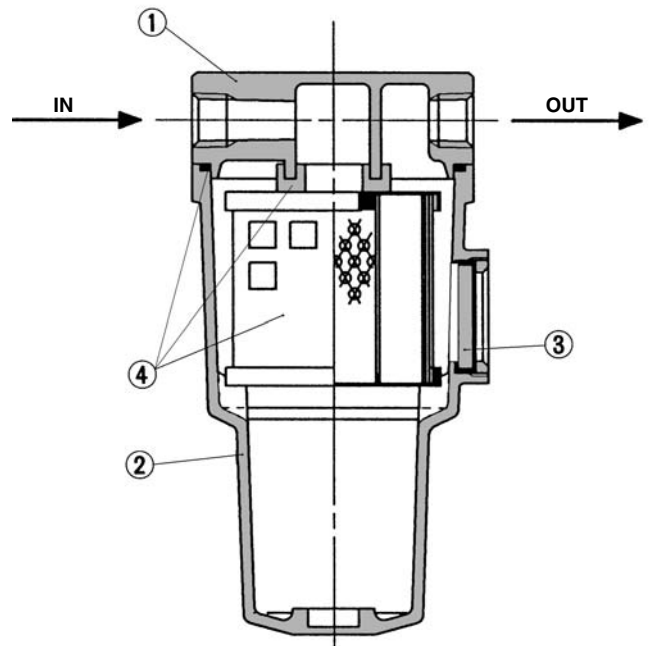## ⚠ Caution

Be sure to read this before handling.
Refer to back pages 1 and 2 for Safety Instructions, "Precautions for Handling Pneumatic Devices" (M-03-E3A) for Common Precautions, and back pages 3 through to 7 for Specific Product Precautions.

SMC

Construction

AME150C to 550C

AME650/850

Component Parts

No.	Description	Material	Note
1	**Body**	Aluminum die-casted	Chrome treated
2	**Housing**	Aluminum die-casted*	Epoxy coating on inner surface
3	**Sight glass**	Tempered glass	—

∗ The AME850 is aluminum casted.

Note) Refer to "How to Order Bowl Assembly" on page 63.

Note) Sight glass is indicated in the figure for easy understanding of component parts. However, it differs from the actual construction. Refer to dimensions on pages 49 through to 51 for details.

Replacement Parts

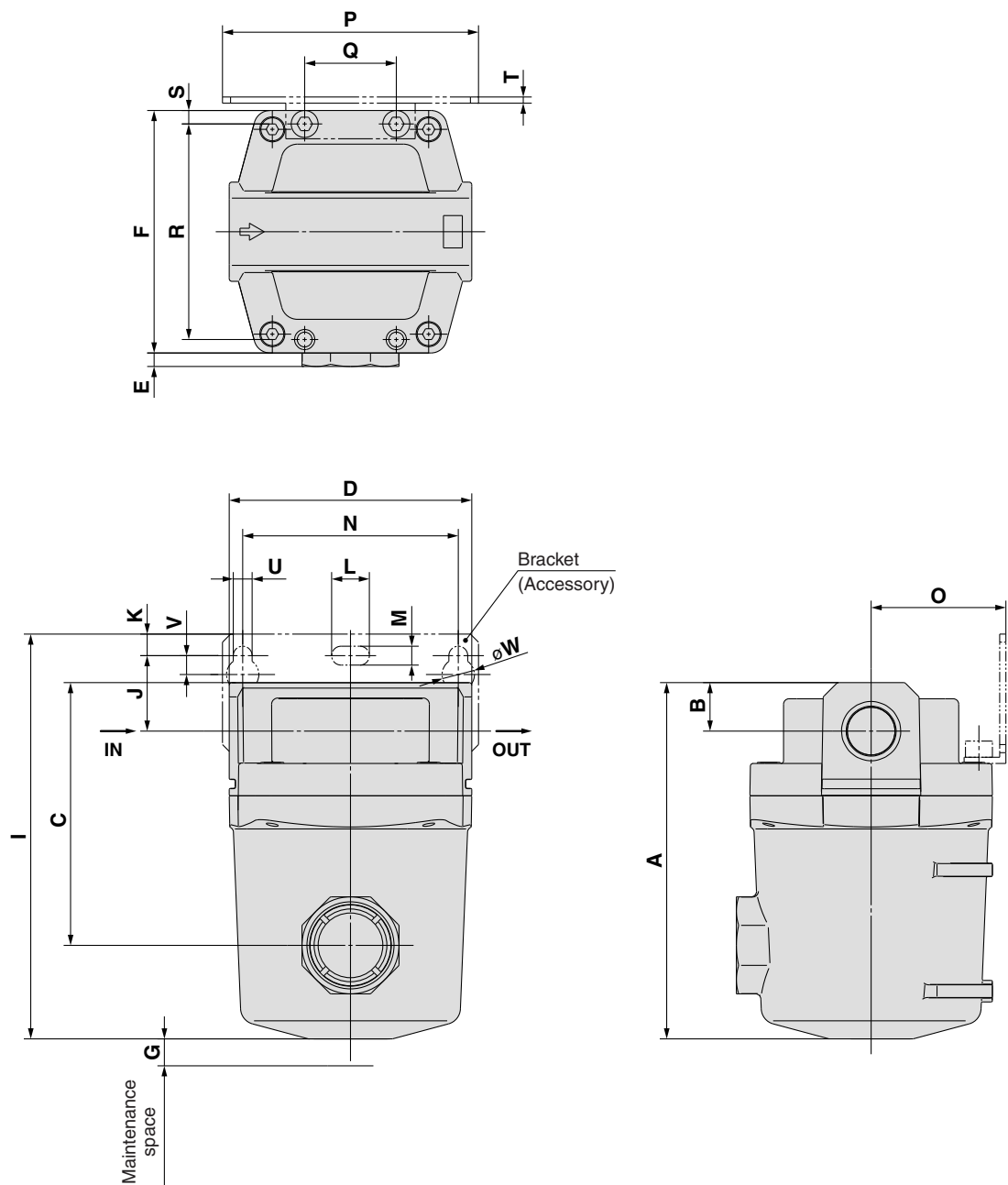| No.	Description	Material	Applicable model	Model						
				AME150C	**AME250C**	**AME350C**	**AME450C**	**AME550C**	**AME650**	**AME850**
4	**Element assembly**	Glass fiber, others	Except option F	AME-EL150	AME-EL250	AME-EL350	AME-EL450	AME-EL550	AME-EL650	AME-EL850
			For option F	AME-EL150-F	AME-EL250-F	AME-EL350-F	AME-EL450-F	AME-EL550-F	—	—

∗ Element assembly: With gasket (1 pc.) and O-ring (1 pc.)

∗ Element assemblies for Made to Order (X12, X20) are same as those for standard (see the above table).

Series AME

Dimensions

AME150C to 350C

| | | | | | | | | Bracket related dimensions | | | | | | | | | | | | |
Model	Port size	A	B	C	D	E	F	G	I	N	J	K	U	V	L	M	W	O	P	Q	R	S	T
AME150C	1/8, 1/4	83	10	54	63	7.5	63	10	98.5	56	20	5	6	6	12	6	10	35	70	26	54	4.5	1.6
AME250C	1/4, 3/8	103	14	73	76	5	76	10	121	66	24	8	6	6	12	6	10	40	80	28	66	5	2
AME350C	3/8, 1/2	132	18	98	90	5	90	10	150	80	28	8	7	7	14	7	12	50	95	34	80	5	2.3

(mm)

SMC

How to Order Bowl Assembly

■ AM, AMD, AMH, AMG Series

AM −CA **650** −□□
AMD
AMH
AMG

Body size

| 650 |
| 850 |

Thread type Note 3)

Symbol	Type
Nil	Rc
F	G
N	NPT

Note 3) Corresponded to the drain exhaust symbol D and J. Select according to the body thread type.

Drain exhaust

Symbol	Description
A	With drain cock Note 1)
D	With N.O. auto drain
J	With drain guide Note 2)

Note 1) Body size 850 is equipped with a ball valve (Rc3/8 female threaded). Mount a piping adapter IDF-AP609 (page 62) to the ball valve if NPT3/8 female threaded is required.

Note 2) Drain piping and piping for a stop valve such as a ball valve are required. For body size 850, substitute with a ball valve. (symbol: A)

■ AME, AMF150C to 550C

AME −CA □ −A −□

Body size

| 150C |
| 250C |
| 350C |
| 450C |
| 550C |

Option Note)

Symbol	Description
Nil	—
F	Rubber material: Fluororubber
H	For medium air pressure (1.6 MPa)
V	Degreasing wash, white vaseline

Note) Combination of FH is not available.

Applicable Model

Bowl assembly model	Applicable model
AME-CA150C	AME150C, AMF150C
AME-CA250C	AME250C, AMF250C
AME-CA350C	AME350C, AMF350C
AME-CA450C	AME450C, AMF450C
AME-CA550C	AME550C, AMF550C

■ AME, AMF650/850

AME −CA **650** −A
AMF

Body size

| 650 |
| 850 |