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# **Super Mist Separator** Series AME

Series AME separates and absorbs aerosol state fine oil particles in compressed air and changes the oil lubricating compressed air to oilless equivalent air. It should be applied for filtration of compressed air requiring high cleanliness coating lines, for compressed air for clean rooms and compressed air for equipment that must avoid oils.

Due to its special configuration, Series AME indicates the life of the filter element by a color change. Accordingly, the replacement time can be judged visually. (A red color spot indicates the replacing time.) By all means Series "AM" should be used as a prefilter. Additionally the Series "AMF" in the rear stage can produce high quality compressed air as an air source for clean rooms.

#### Model

Model	AME150	AME250	AME350	AME450	AME550	AME650	AME850
Note) Rated flow (//min (ANR))	200	500	1000	2000	3500	6000	12000
Port size (Nominal size B)	1⁄8, 1⁄4, 3⁄8	1/4, 3/8, 1/2	3⁄8, 1⁄2, 3⁄4	1⁄2,3⁄4, <b>1</b>	3⁄4, 1	1, 11⁄2	11⁄2, 2
Weight (kg)	0.38	0.55	0.9	1.4	2.1	4.2	10.5

Note) Max. flow capacity at a pressure of 0.7 MPa. Max. flow varies depending on operating pressure. Refer to "Flow Characteristics" (page 14-20-38) and figure of "Max. Air Flow" (page 14-20-38).

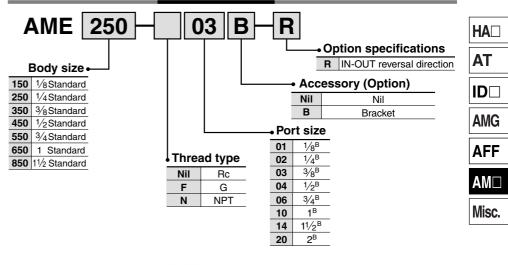
#### Specifications

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				
Filtration	0.01 $\mu$ m (95% particle size collection)				
Oil mist removal rate	Less than 3.5 particles 0.3 μm or larger per liter of air (100 particles or less per cubic foot)				
Element life	Element color indicator (When an element becomes saturated with oil the element surface changes from white to red.)				
Refer to "Made to Order Specifications" on page 14-20-57.					

#### Accessory (Option)

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Applicable model	AME150	AME250	AME350	AME450	AME550	AME650	AME850
Bracket assembly (With cap bolt and spring washer	BM51	BM52	BM53	BM54	BM55	BM56	BM57

### How to Order





Note) Refer to "How to Order Bowl Assembly" on page 14-20-59.

JIS Symbol	
Made to Order	
▲ Caution ✓	
▲ Caution Be sure to read before handling Refer to pages 14-21-3 to 4 for Safety Instructions and Common Precautions on the product mentioned in this catalog, page	ts

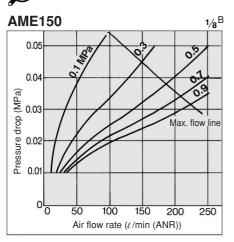
14-14-6 to 8 for Precautions on I every series, and pages 14-20-62 I to 64 for more detailed precau-I tions on every series.

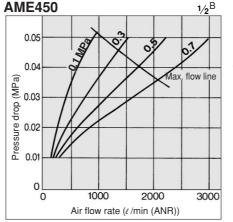
# Series AME

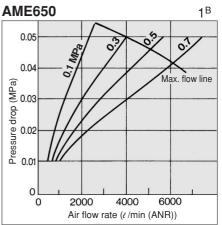
#### Flow Characteristics

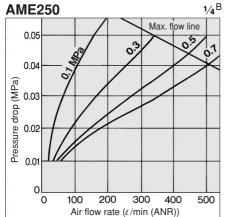
**Element initial condition** 

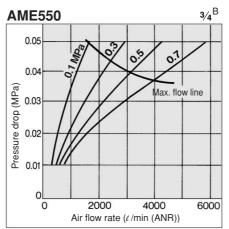
Note) Compressed air over max. flow line in the table below may not meet the specifications of the product. It may cause damage to the element.

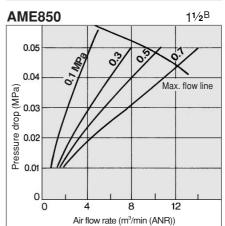


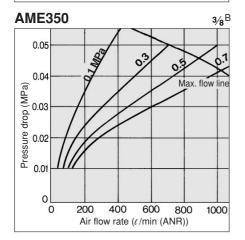












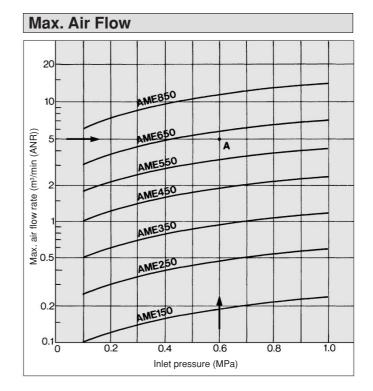
#### Model Selection

Select the model in accordance with the following procedure taking the inlet pressure and max. air flow into consideration. (Example) Inlet pressure: 0.6 MPa

- Max. air flow capacity: 5 m³/min (ANR) 1. Select the point of contact A of inlet pressure and max. air capacity in the graph. 2. AME650 is obtained when the max. flow line is above the point of inter-
- section A in the graph.

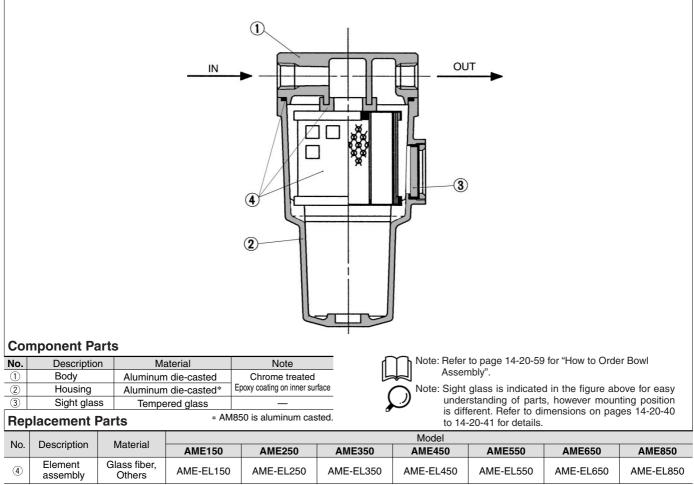


Note) Make sure to select a model that has the maximum flow rate line above the obtained intersecting point. With a model that has the maximum flow rate line below the obtained intersecting point, the flow rate will be exceeded, thus leading to a problem such as being unable to satisfy the specifications.





#### Construction

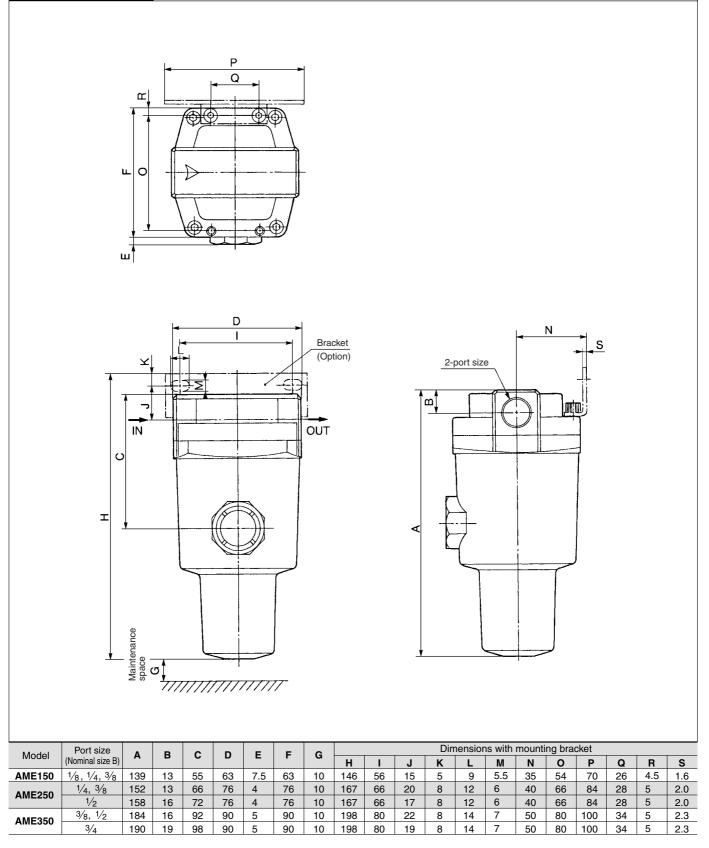


\* Element assembly: With gasket and O-ring

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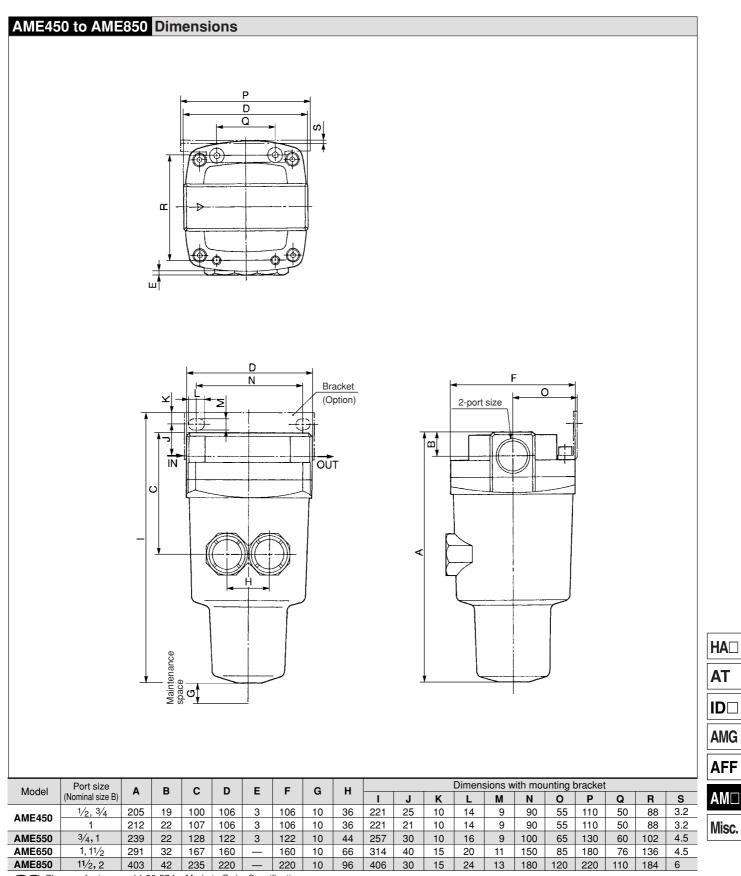
## Series AME

### AME150 to AME350 Dimensions



**SMC** 

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Please refer to page 14-20-57 for Made to Order Specifications

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AMG

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