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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

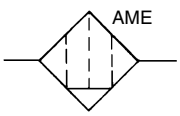
By all means the "AM" series should be used as a pre-filter.

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

AME150C to 350C AME450C/550C

AME650/850

Symbol



Made to Order

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(For details, refer to page 67.)

Model

Model	AME150C	AME250C	AME350C	AME450C	AME550C	AME650	AME850
Note) Rated flow (ℓ/min (ANR))	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/m^3 (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

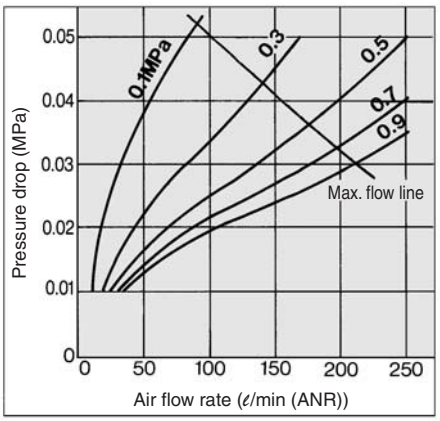
⚠ Caution

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.

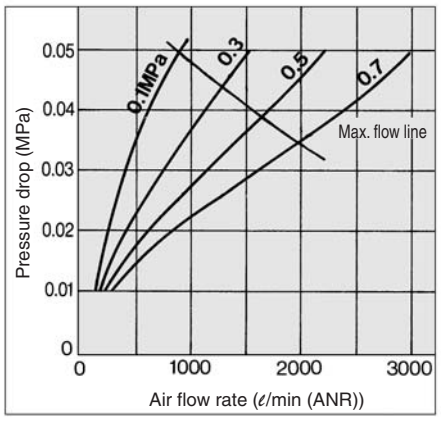
Flow Characteristics (Element initial condition)

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.

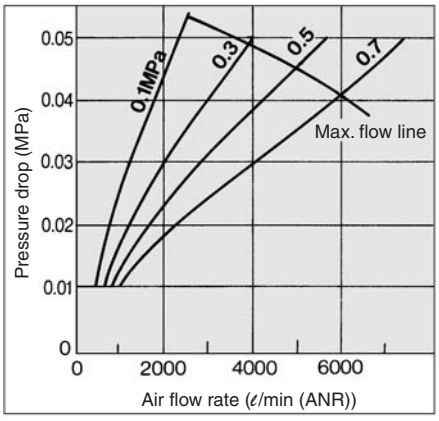
AME150C



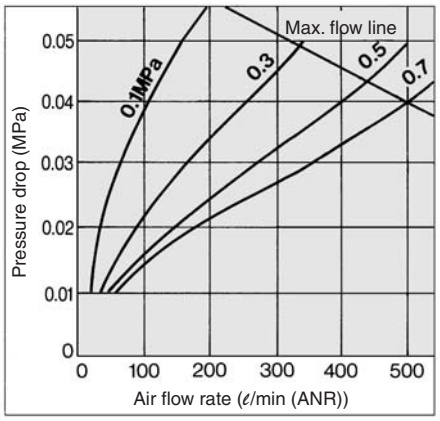
AME450C



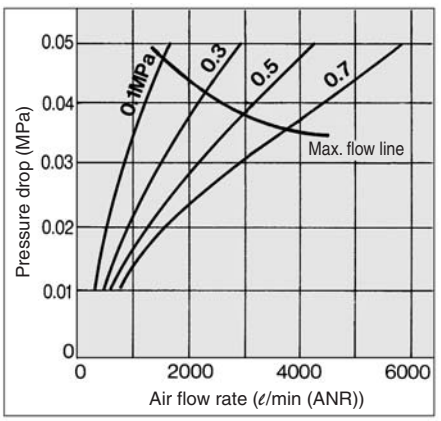
AME650



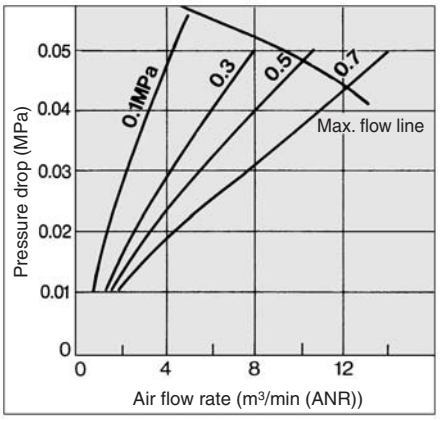
AME250C



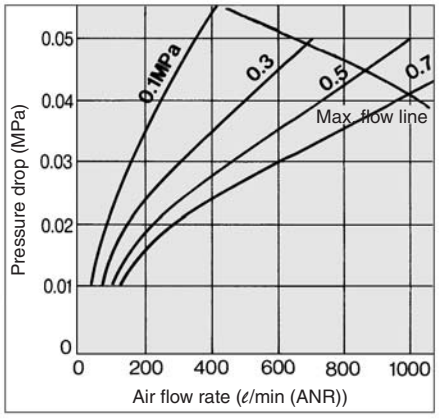
AME550C



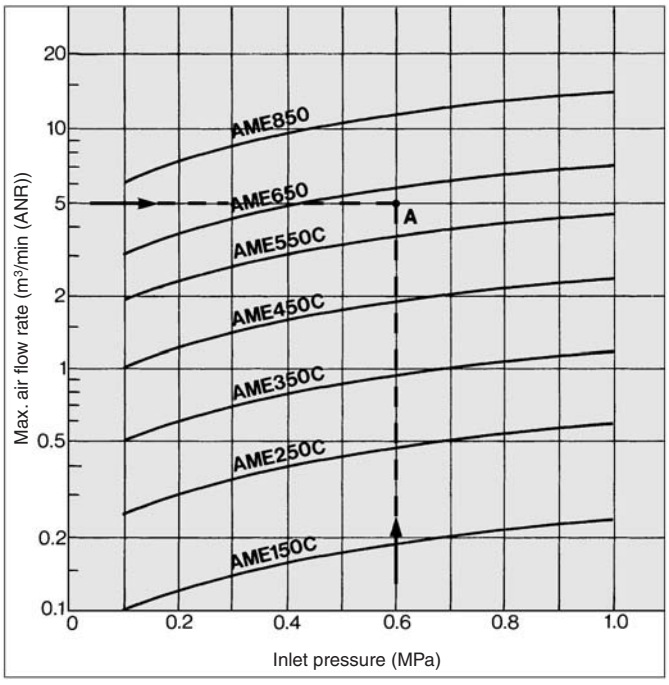
AME850



AME350C



Maximum Air Flow



Model Selection

Select a model in accordance with the following procedure taking the inlet pressure and the max. air flow rate into consideration.

(Example) Inlet pressure: 0.6 MPa
Max. air flow rate: 5 m³/min (ANR)

1. Obtain the interecting point A of inlet pressure and max. air flow rate in the graph.
2. The AME650 is obtained when the max. flow line is above the intersecting point A in the graph.

Note) Make sure to select a model that has the max. flow line above the obtained intersecting point. With a model that has the max. flow 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.