Micro alescer/micro naught (oil removal)

1219 Series

Oil content is to be 0.1 PPM w/w or less. (Measurement/instrumentation and high-grade coating)

● Port size: Rc1/4

JIS symbol 

RoHS CAD

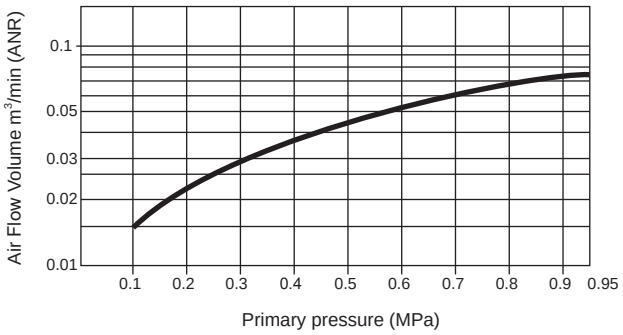
Specifications

Item		1219-2C
Working fluid		Compressed air
Max. working pressure	MPa	1.0 (≈150 psi, 10 bar)
Proof pressure	MPa	1.5 (≈220 psi, 15 bar)
Ambient / fluid temperatures	°C	5 (41°F) to 54 (129.2°F)
Oil removal		0.1 PPM w/w (for inlet air temperature 30°C)
Max. flow rate	m^3/min(ANR)	0.056
Port size	Rc	1/4
Weight	kg	0.3
Mantle quantity		1
Mantle assembly model No. (A set of mantle and either O-ring for sealing or gasket)		1219-MANTLE-ASSY

*1 : Max. flow rate is the atmospheric pressure conversion value where the inlet air pressure is 0.7 MPa and the initial pressure drop is 0.01 MPa.

*2 : The mantle assembly number indicates the part number that combines the mantle discrete number and O-ring number (parts list (4) on the following page).

Flow characteristics



Option weight

* Add to the weight of the standard accessories. Unit: kg

	Bowl material		Bracket
Code	Z	M	B
1219	0	0.08	0.035

How to order

1219 – 2C – ZB

Ⓐ Model No.

Ⓑ Port size *1

Ⓒ Option *2

Code		Description
Ⓑ Port size		
2C		Rc1/4
Ⓒ Option		
Drain disch	Blank	With tire valve
Bowl material	Blank	Polycarbonate bowl
	Z	Nylon bowl
	M	Metal bowl
Included product	Blank	Not included
	B	Bracket

[Example of model No.]

1219-2C-ZB

Model: Micro alescer/ micro naught (oil removal)

Ⓑ Port size: Rc 1/4

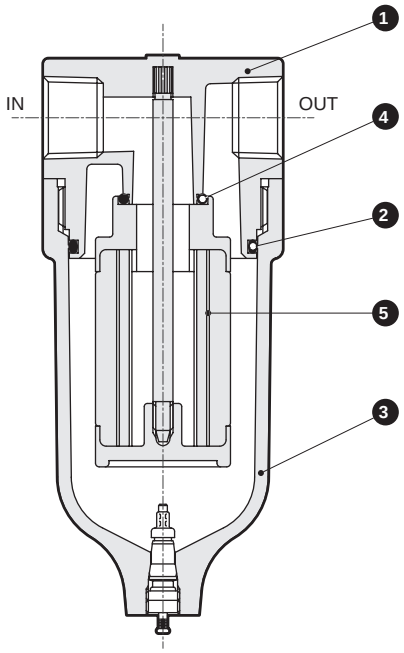
Ⓒ Option...Nylon bowl, bracket included

⚠ Precautions for model No. selection

*1 : If port size NPT thread is required, do not indicate nominal size C. (Example) 1219-2

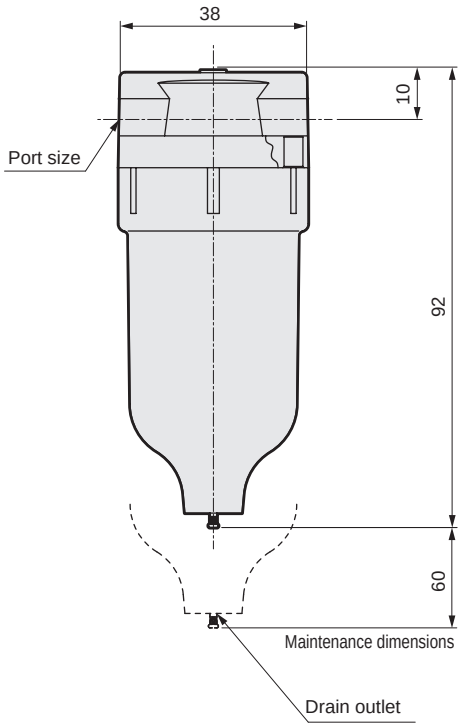
*2 : Refer to page 417 for the included “B” bracket.

Internal structure and parts list

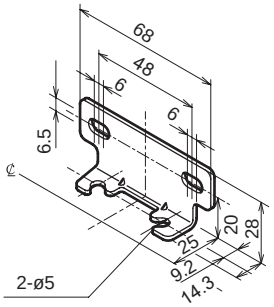


No.	Part name	Material
1	Cover	Zinc alloy die-casting/Brass
2	O-ring	Special nitrile rubber
3	Bowl	Polycarbonate resin/Brass
4	O-ring	Nitrile rubber
5	Mantle	-

Dimensions CAD

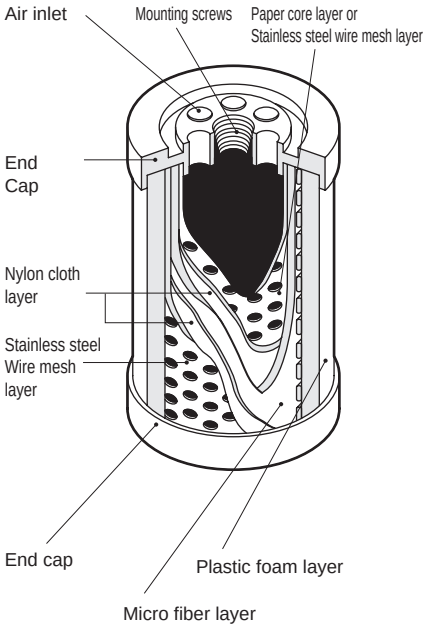


● Wall bracket: 6506
·Material: Steel Zinc plated
Bracket thickness 2 mm



* Tapping screw attached

Internal structure of mantle



99% of oil particles in the compressed air are in the aerosol state. These aerosols (0.8 to 0.01 µm particles) cannot be captured by 3 µm/5 µm elements, or other mechanical methods. Micro alescer/micro naught is an air filter that removes aerosols effectively. The biggest factor for achieving this efficiency is the micro fiber layer. Borosilicate fibers (glass fibers) are used in the micro fiber layer. The many random fine fibers in this layer capture oil aerosols by direct collision, inertial collision, contacting and adhesion, or diffusion (Brownian motion) and cohesion by diffusion. The oil aerosols then form droplets. The plastic foam layer on the mantle exterior prevents redispersion through air flow of the large liquid drops which are formed by cohesion of oil particles captured in the micro fiber layer. At the same time, the liquid droplets sink due to gravity in this plastic foam layer. The micro fiber layer and plastic foam layer capture and cohere oil particles and separate oil in the compressed air. If sulfur dioxide or chlorine gas is contained in the compressed air, they will enter the plastic foam layer. Also, it will swell due to organic compounds such as hydrocarbons, chlorinated hydrocarbons, ketones, aldehydes, amines, etc. Exercise caution during use.