



Micro alescero/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

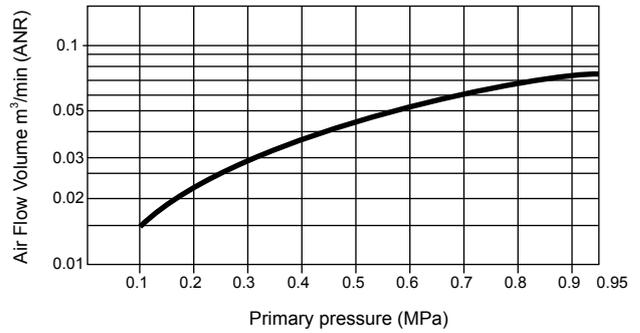


Specifications

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.	1219-MANTLE-ASSY	
<small>(A set of mantle and either O-ring for sealing or gasket)</small>		

- *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

Code	Bowl material		Bracket
	Z	M	B
1219	0	0.08	0.035

How to order



A Model No.

B Port size
*1

C Option
*2

Code	Description	
B Port size		
2C	Rc1/4	
C 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 alescero/micro naught (oil removal)

B Port size: Rc 1/4

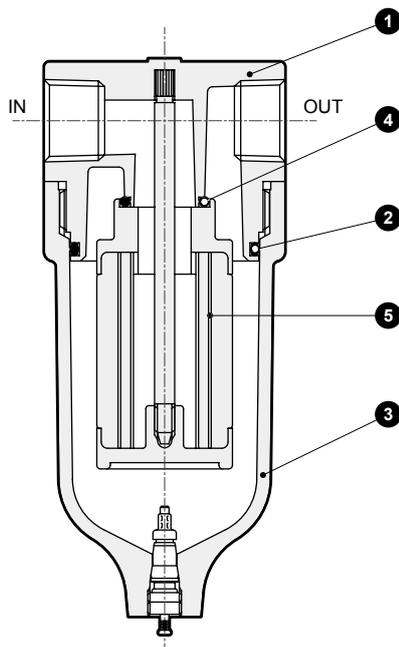
C Option...Nylon bowl, bracket included

⚠ Precautions for model No. selection

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

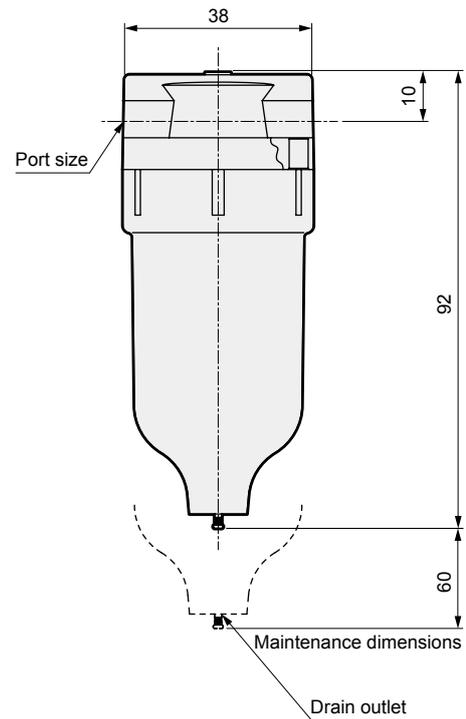
*2 : Refer to page 417 for the included "B" bracket.

Internal structure and parts list

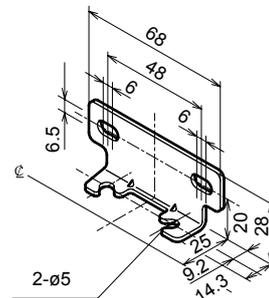


No.	Part name	Material
1	Cover	Zinc alloy die-casting/copper alloy
2	O-ring	Special nitrile rubber
3	Bowl	Polycarbonate resin/copper alloy
4	O-ring	Nitrile rubber
5	Mantle	—

Dimensions

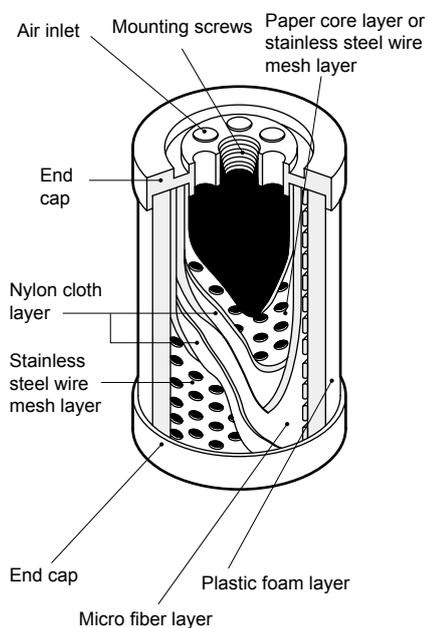


- Wall bracket: 6506
- Material: Steel
- Zinc plated
- Bracket thickness 2 mm



* 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 alescerc/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.

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
Film Resist FR
Oil-ProhR
Med Press FR
No Cu/ PTFE FRL
Outdrs FRL
Adapter Joiner Press Gauge
CompFRL
LgFRL
PrecsR
VacF/R
Clean FR
ElecPneuR
AirBoost
Speed Ctrl
Silncr
CheckV/ other
Fit/Tube
Nozzle
Air Unit
PresCompn
Electro Press SW
ContactSW
AirSens
PresSW Cool
Air Flo Sens/Ctrl
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending