


CERTAIN-PORE
CTL Type
Major Applications

Gas filtration and sterilization

 Tank vent, Fermentation air,
Positive pressure air, N₂ gas, CO₂ gas

Quality standards

- **Adaptable Food Sanitation Standard**
 - FDA 21 CFR
 - EC No.1935/2004, EU No.10/2011
- **Heat sterilization durability**
 - 142°C (287.6°F) x 30 minutes x 250 cycles
 - Positive pressure: 200 cycles,
 - Back pressure : 50 cycles
- **Integrity tested by diffusion test**
- **Traceability by lot number**

Features

- **Bacterial challenge test with**
Brevundimonas diminuta (ATCC 19146)
in liquid and aerosol
- **Hydrophobic PTFE membranes with**
low pressure drop and high airflow
- **Use of highly durable materials that**
are less likely to be damaged by heat

Advantages

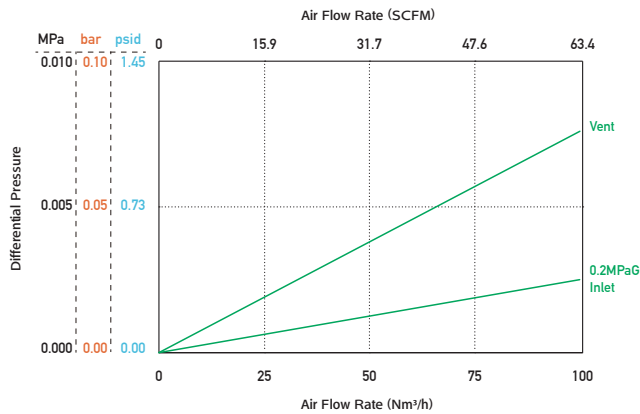
- **Gases can be filtered and sterilized.**
- **High air supply efficiency**
- **Can be used repeatedly for high**
temperature in-line steam
- **Can be used for a long time in a high**
temperature environment

Specifications

Grades	002
Micron Ratings	Liquid: 0.2 μm, Gas: 0.003 μm
E.F.A.	0.81m ² /250mm
Media	Hydrophobic PTFE Membrane
Materials	Polypropylene
Core/Cage/Support	Polypropylene
End Cap	Polypropylene
Maximum ΔP	0.53MPa at 40°C (76.9psi at 104°F)
Length	125 / 250 / 500 / 750 mm
Dimensions	O.D.
	70.0mm
	I.D.
	29.5mm
Available sterilization methods	Inline steam, Autoclave
Inline steam sterilization	142°C (287.6°F) x 30 minutes x Positive pressure: 200 cycles, Back pressure: 50 cycles

Differential Pressure vs Flow Rate

Fluid: Air / Cartridge Length: 250mm



*SCFM: Temperature 21.1°C (70°F), Humidity: 0% RH, Standard pressure (101.3kPa)

Particle Removal Efficiency (Gas)

0.003 μm : >99.999%

* NaCl (>0.003 μm) CNC particle analysis.

Microbial removal performance

	Biological Indicator	LRV*
Liquid	<i>Brevundimonas diminuta</i> (ATCC 19146)	>7
Aerosol	<i>Brevundimonas diminuta</i> (ATCC 19146)	>7

*LRV represents Log Reduction Value (Refer to JIS K3835)

*Bacterial challenge level is more than 1×10^7 CFU/cm².

Estimated continuous use period by operating temperature

60°C (140°F) hot air 12 months

Ordering Information

Length	Product Type	Micron Rating	O-Ring	End Cap Code	Packaging Code
250 L	-CTL-	002	J	7	B
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		0.2 μm	Steam Resistant Silicone	6 = 2-226 O-Ring 7 = 2-226 O-Ring + Fin 8 = 2-226 O-Ring + Fin	A = 1pc B = 6pcs C = 10pcs F = 25pcs

End Cap Code

Code 6



Code 7



Code 8



*The contents of the catalog are subject to change without notice.

*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope
Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



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JQA-QMA16323

MS CM009

10th Issue
CTL200602LE