



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 flow 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

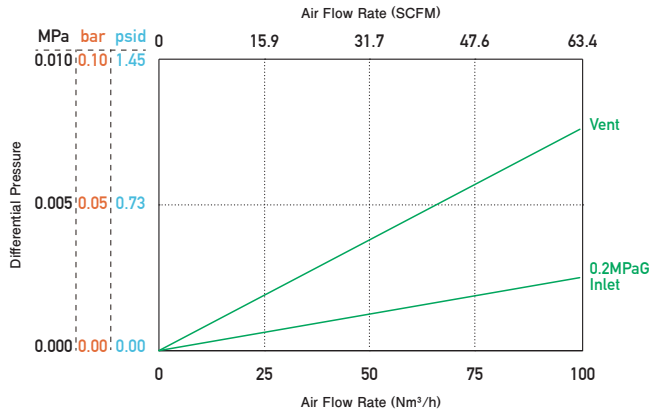
Specifications

Grades	002
Micron Ratings	Liquid: 0.2μm, Gas: 0.003μm
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)
Maximum Operating Temp	80°C (176°F)
Length	125 / 250 / 500 / 750 mm
Dimensions	O.D.
	I.D.
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

*If you need further information on specifications (length, end cap type, etc.), please contact us.

Differential Pressure vs Flow Rate

Fluid: Air 20°C (68°F) / Cartridge Length: 250mm



Particle Removal Efficiency (Gas)

0.003μm: >99.999%

* NaCl (>0.003μm) CNC particle analysis.

Sterilization 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)

*Challenge bacteria count is more than 1×10^7 cfu/cm².

Estimated continuous use period by operating temperature

60°C (140°F) hot air 12 months

80°C (176°F) humid air 6 months

Ordering Information

Nominal 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		0.2μm	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.

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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.



JQA-QMA16323

MS CM009

5th Issue
CTL200602LE