

Depth Pleated Filter



COSPA LAMI AL1P

Major Applications

- Clarification of various chemical solutions

Examples:

Pharmaceutical chemicals,
Pharmaceutical ingredients, Drug substance,
Manufacturing water

Quality standards

- Manufactured in ISO 9001 certified plant
- FDA 21 CFR compliant
- USP Class VI plastic biological safety testing compliant
- Certificate of quality is attached to the product.
- Traceability by lot number



Features

- Depth Pleated type filter with graded density slope
- Structure that reduces dead space and expands the effective filtration area

Advantages

- Excellent removal performance
- Excellent differential pressure vs. flow rate

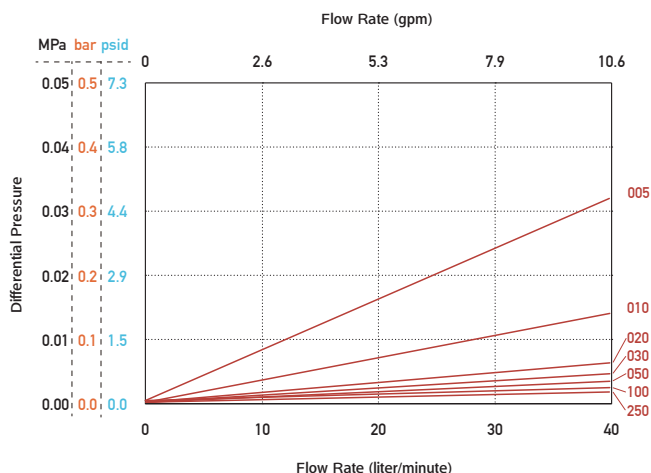
Specifications

Grades		005	010	020	030	050	100	250
Micron Ratings (μm)		0.5	1.0	2.0	3.0	5.0	10	25
E.F.A.		0.23m ² /250mm						
Media		Polypropylene						
Materials	Core/Cage/Support	Polypropylene						
	End Cap	Polypropylene						
Maximum ΔP		0.49MPa at 20°C (71psi at 68°F)						
Maximum Operating Temp		80°C (176°F)						
Dimen- sions	Length	250/500/750/1000 mm *0.5 μm : 250, 500mm only						
	O.D.	70.0mm						
	I. D.	26.1 (for F)/26.9 (for 3, 4)/29.5 (for 7) mm						
Available sterilization methods		Inline steam, Autoclave *Applicable to only code 3, 4, 7 with Silicone O-rings.						
Inline steam sterilization		135°C (275°F) x 30 minutes x 10 cycles *Applicable to only code 3, 4, 7 with Silicone O-rings.						

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

Differential Pressure vs Flow Rate

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



Particle Removal Efficiency

Grades	Particle Removal Efficiency (%)						
Particle Size (μm)	005	010	020	030	050	100	250
0.5	> 99.9						
0.7		> 98					
1.0		> 99.9					
1.5			> 98				
2.0			> 99.9				
2.5				> 99			
3.0				> 99.9			
4.5					> 99		
5.0					> 99.9		
6.0						> 98	
10						> 99.9	> 98
25							> 99.9

Test Conditions

Equipment : Liquid Particle Counter
 Filtration : Single Pass
 Fluid : Refined Water
 Flow Rate : 10 liter/minute
 Dust : ALUMINA + BOEHMITE(AL1P005)
 ACFTD + LATEX Beads(AL1P010~250)

Validation items

Items	Evaluation criteria
Endotoxin (LAL)	Extraction volume with water is less than 0.25 EU/mL and complies with USP (85) requirements.
Evaporation residues	Less than 5 mg of evaporation residue per 250 mm cartridge after 24 hours in ultrapure water following autoclave sterilization
Potassium permanganate consumption	Meets the requirements of the USP Oxidizable Substance Test by flushing with at least 5,000 mL of ultrapure water after autoclaving
Filter/component toxicity	USP (88) Biological Reactivity Tests For Class VI Plastics compliant

*Please refer to the Validation Guide for detailed testing information.

Ordering Information

Product Type	Micron Rating	Length	Gasket/O-Ring	End Cap Code
AL1P	0 1 0 -	2 0	S	7
	005 = 0.5 μm*1 010 = 1.0 μm 020 = 2.0 μm 030 = 3.0 μm 050 = 5.0 μm 100 = 10 μm 250 = 25 μm *1 Only 250, 500mm	10 = 250mm 20 = 500mm 30 = 750mm 40 = 1000mm	S = Silicone X = EPDM T = FEP Encapsulated FKM B = FEP Encapsulated Silicone	F = Flat Gaskets*2 3 = 2-222 O-Ring + Fin 4 = 2-222 O-Ring 7 = 2-226 O-Ring + Fin *2 Code F is only for Silicone

Filter Length Code = Box QTY

10 = 24pcs/Box
 20 = 24pcs/Box
 30 = 12pcs/Box
 40 = 12pcs/Box

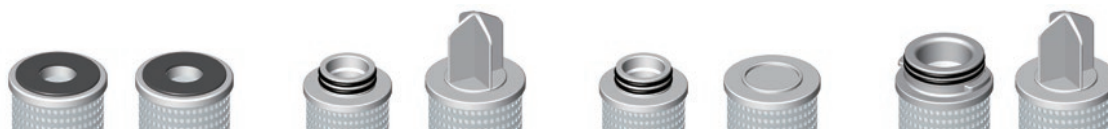
End Cap Code

Code F

Code 3

Code 4

Code 7



*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.



5th Issue
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