


SLOPE-PURE

ASLS Type

Major Applications

Clarification of various chemical solutions

 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 type filter with graded density slope
- Variety of micron ratings

Advantages

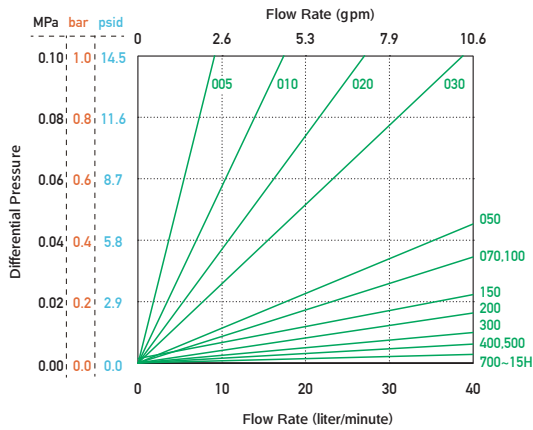
- Ideal for filtration of chemicals with large amounts of solids, sediment and gel-like substances
- Excellent removal performance
- Optimal micron ratings selection according to the purpose

Specifications

Grades	005	010	020	030	050	070	100	150	200	300	400	500	700	900	12H	15H
Micron Ratings (μm)	0.5	1.0	2.0	3.0	5.0	7.0	10	15	20	30	40	50	70	90	120	150
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)															
Length	125 / 250 / 500 / 750 mm															
Dimensions 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.															

Differential Pressure vs Flow Rate

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



Particle Removal Efficiency

Grades Particle Size (μm)	Particle Removal Efficiency (%)																
	005	010	020	030	050	070	100	150	200	300	400	500	700	900	12H	15H	
0.5	> 98																
1.0	> 99.9	> 99.9	> 98														
2.0			> 99.9	> 98													
3.0				> 99.9	> 99.9	> 98											
5.0					> 99.9	> 98											
7.0						> 99.9	> 99.9	> 98									
10								> 99.9	> 98								
15										> 98							
20											> 99.9	> 99.9	> 98				
30												> 99.9	> 98				
50													> 99.9	> 98			
70														> 99.9		> 98	
90															> 99.9	> 99.9	

Test Conditions

Equipment : Liquid Particle Counter
 Filtration : Single Pass
 Fluid : Refined Water
 Flow Rate : 10 liter/minute
 Dust : ACFTD + LATEX Beads (ASLS-005~400)
 Diatomaceous earth (ASLS-500~15H)

Validation items

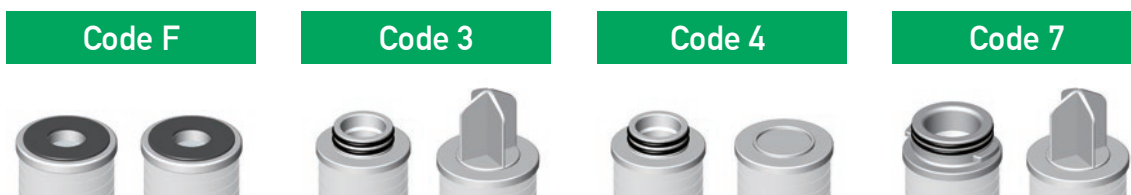
Items	Evaluation criteria
Endotoxin (LAL)	Extraction volume with water is less than 0.25 EU/mL and complies with USP <85> requirements.
Evaporation residues	Less than 5 mg of evaporation residue per 250 mm cartridge after 24 hours in ultrapure water following autoclave sterilization
Potassium permanganate consumption	Meets the requirements of the USP Oxidizable Substance Test by flushing with at least 1,000 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

Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code
5 0 0 L	-ASLS-	0 1 0	S	7	B
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		005 = 0.5 μm 200 = 20 μm 010 = 1.0 μm 300 = 30 μm 020 = 2.0 μm 400 = 40 μm 030 = 3.0 μm 500 = 50 μm 050 = 5.0 μm 700 = 70 μm 070 = 7.0 μm 900 = 90 μm 100 = 10 μm 12H = 120 μm 150 = 15 μm 15H = 150 μm	S = Silicone X = EPDM T = FEP Encapsulated FKM B = FEP Encapsulated Silicone	F = Flat Gaskets* 3 = 2-222 O-Ring + Fin 4 = 2-222 O-Ring 7 = 2-226 O-Ring + Fin *Code F is only for Silicone	A = 1pc B = 6pcs C = 10pcs F = 25pcs

End Cap Code



*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

4th Issue
 ASLS200730LE