


**MICRO-PURE**

# AMPA Type

**Major Applications**
**Pre-filtration application**

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**

- 100% Polypropylene
- Pleated type with wide filtration area
- Variety of micron ratings

**Advantages**

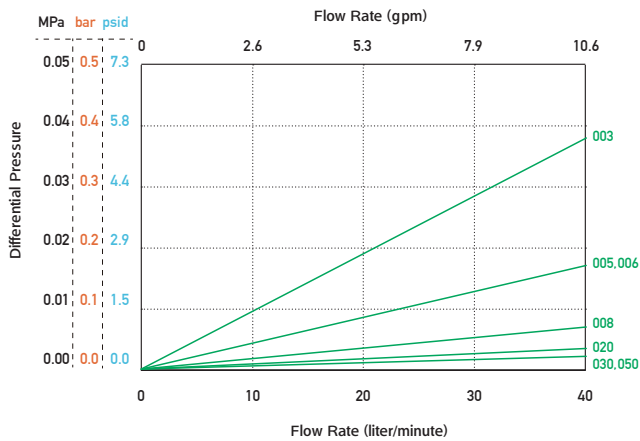
- Wide range of fluid compatibility
- Excellent differential pressure vs. flow rate
- Optimal micron ratings selection according to the purpose

**Specifications**

Grades	003	005	006	008	020	030	050
Micron Ratings ( $\mu\text{m}$ )	0.25	0.45	0.6	0.8	2.0	3.0	5.0
E.F.A. ( $\text{m}^2/250\text{L}$ )	0.45	0.45	0.45	0.45	0.50	0.52	0.55
Media	Polypropylene						
Materials Core/Cage/Support	Polypropylene						
End Cap	Polypropylene						
Maximum $\Delta P$	0.49MPa at 20°C (71psi at 68°F)						
Maximum Operating Temp	80°C (176°F)						
Dimensions Length	125/250/500/750 mm						
O.D.	70.0mm						
I.D.	26.1 (for F)/26.9 (for 3, 4)/30.0 (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

Particle Size (μm)	Particle Removal Efficiency (%)						
	003	005	006	008	020	030	050
2.5	>99.9	>98	>98				
3.5		>99.9	>99.9				
4.5				>98			
5.5				>99.9			
6.0					>99	>98	>98
8.5					>99.9	>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

## 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

Length	Product Type	Micron Rating	Gasket/O-Ring	End Cap Code	Packaging Code
<b>500L</b>	<b>-AMPA-</b>	<b>003</b>	<b>S</b>	<b>7</b>	<b>B</b>
125 = 125mm 250 = 250mm 500 = 500mm 750 = 750mm		003 = 0.25 μm 005 = 0.45 μm 006 = 0.6 μm 008 = 0.8 μm 020 = 2.0 μm 030 = 3.0 μm 050 = 5.0 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.

# ROKI GROUP International Pte. Ltd.

6-20-12, Minami-Oi, Shinagawa-ku Tokyo, 140-0013 Japan  
 TEL: +81-3-5764-1131 FAX: +81-3-5764-0681

[www.rokiglobal.com](http://www.rokiglobal.com)

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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5th Issue  
 AMPA200727LE