

Solaris[®] APR CMP Disposable Filter

Next generation slurry filters for large and fine particle reduction

Entegris' extensive CMP process knowledge and product innovation focus enabled the development of Solaris[®] APR (advanced particle reduction) CMP slurry filters to address the reduction of both large and fine particles in slurries for advanced node processes. With patented, multilayer depth-type media, Solaris APR (advance particle reduction) filters can effectively reduce most large abrasive and slurry agglomerates, and minimize inadequate post-CMP cleans.

APR Technology

APR technology addresses the need for superior particle reduction to increase yield in advanced node slurries. This technology combines a polymeric and non-polymeric media (patented) that enables high retention of large particles without sacrificing filter life. The additional absorption ability of the media can remove fine particles and minimize post-CMP cleans, which are often inefficient.

Low Hold-up Volume Design

Solaris APR filter molded surfaces are designed to be "well swept" with minimal dead space. This minimizes the entrapment of seed" particles, ensures good venting of any bubbles formed from hydrogen peroxide additives, and eliminates potential slurry dry-out.

Less Handling, More Cleanliness and Safety

The convenient disposable design minimizes exposures to the slurry and reduces slurry waste. Solaris APR filters are available with our Connectology[®] design for fast filter changeouts and increased cleanliness during the filter installation.

APPLICATIONS

- Point-of-tool slurry filtration



Multilayer depth-type media reduces wafer defects and improves yield

FEATURES & BENEFITS

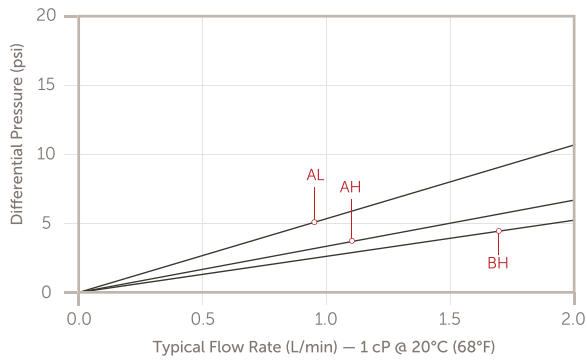
Multilayer media	Provides high retention, helping to reduce wafer defects and improve yield
Media design adsorbs fine particles	Minimizes inefficient post-CMP clean, increasing overall cost of ownership
Low hold-up volume	Reduces waste and setup time
Self-venting filtration	Eliminates dead space and potential for slurry dry-out in the filtration media
Disposable Connectology design	Allows for quick installation, eliminates downtime, and limits operator handling of hazardous chemicals during installation and processing

SPECIFICATIONS

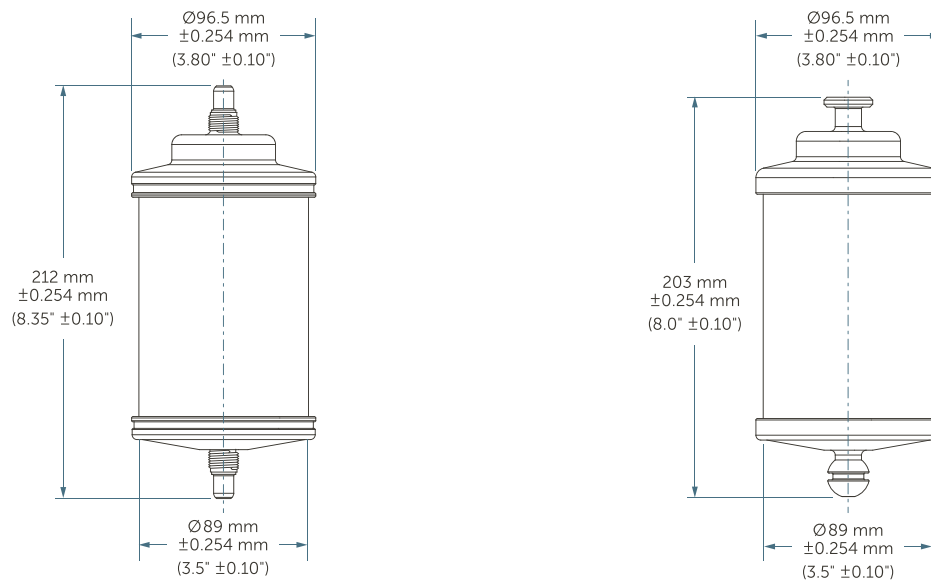
Materials	Membrane	Polymeric/non-polymeric media combination
	Core	Polypropylene
Operating Conditions	50 psi @ 20°C (68°F)	

PERFORMANCE DATA

Solaris APR CMP Filter



DIMENSIONS



ORDERING INFORMATION

PART NUMBER	FILTRATION MEDIA	LENGTH	CONNECTION
SAPAH53E1F	pH 2-9, solid 10%	5"	3/8" Flaretek®
SAPAH5CE1F	pH 2-9, solid 10%	5"	Connectology®
SAPAL53E1F	pH 2-9, solid <2%	5"	3/8" Flaretek®

ORDERING INFORMATION

PART NUMBER	FILTRATION MEDIA	LENGTH	CONNECTION
SAPAL5CE1F	pH 2-9, solid <2%	5"	Connectology®
SAPBH53E1F	pH 6-12, solid 10%	5"	3/8" Flaretek®
SAPBH5CE1F	pH 6-12, solid 10%	5"	Connectology®

FOR MORE INFORMATION

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