Solaris® NMB Filter

Advanced slurry filter for large particle reduction

Delivering point-of-tool filtration solutions to advanced CMP applications, Solaris® NMB filters offer very low large particle counts (LPC) and no change to particle size distribution. Advanced CMP applications are moving toward lower solid concentration, very fine abrasive, and very stringent defect levels. Solaris NMB is specially designed to reduce critical large particle counts in various applications, especially optimized for colloidal silica, ceria, and very fine alumina slurries. Solaris NMB filters provide higher retention and longer lifetime performance.

Higher Retention, Lower Resistance and Superior Lifetime
Solaris NMB filters contain nanofibers and multilayered continuous melt-blown (CMB) media for an improved flow path with high retention. Finer fiber can increase the media porosity and reduce the media resistance. The large gradient design increases particle-loading capacity and provides long-lasting filtration without compromising the filter retention performance.

Low Hold-Up Volume Design
Solaris NMB 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 NMB filters are available with our Connectology® design for fast filter changeouts and increased cleanliness during the filter installation.

Reduce critical large particle counts in various applications.

APPLICATIONS

- Industry: Semiconductor
- Process: CMP
- Chemistry: Slurry
- Installation Point: Point-of-Tool

FEATURES & BENEFITS

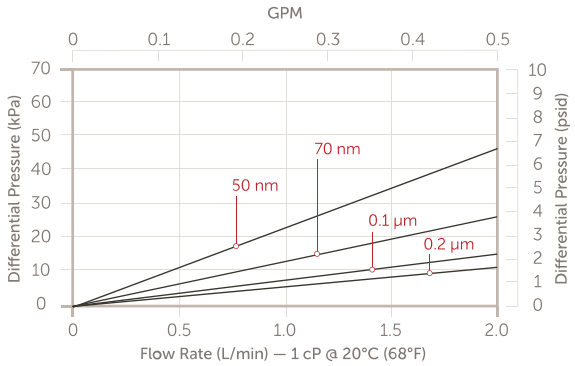
Nanofiber continuous melt-blown (NMB) media	Provides superior agglomerate and gel removal efficiency Has better particle-holding capacity, prolonging filter life over traditional media
Low pressure drop	No extra pressure cost when upgrading to the tighter port filter
Low hold-up volume	Reduces waste 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 downtimes, and limits operator handling of hazardous chemicals during installation

SPECIFICATIONS

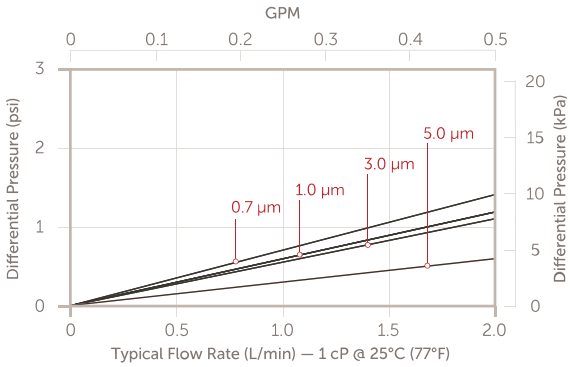
Materials	Media	Melt-blown polypropylene
	O-ring (inner cartridge)	Ethylene polypropylene rubber (EPR)
Operating Conditions	50 psi @ 20°C (68°F)	

PERFORMANCE DATA

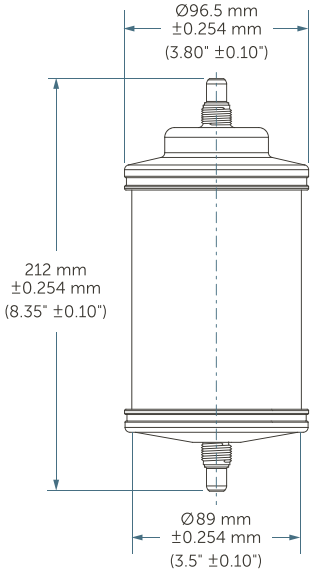
Solaris NMB Point-of-tool CMP Filters with Connectology Connection

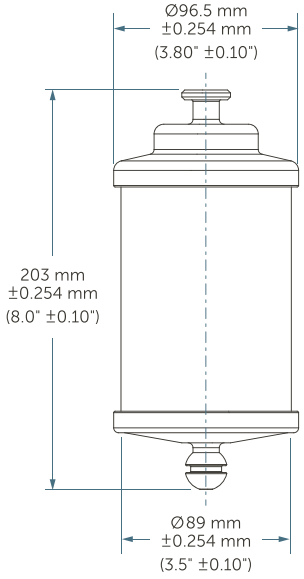


Solaris NMB Point-of-tool CMP Filters with ⅜" Flaretek® Connection



DIMENSIONS





ORDERING INFORMATION

PART NUMBER	RETENTION RATING	CONNECTION
SNB015CE1F	0.1 µm	Connectology®
SNB025CE1F	0.2 µm	Connectology®
SNB0753E1F	0.7 µm	3/8" Flaretek®
SNB105CE1F	1 µm	3/8" Flaretek®
SNB3053E1F	3 µm	3/8" Flaretek®
SNB5053E1F	5 µm	3/8" Flaretek®
SNBA55CE1F	50 nm	Connectology®
SNBA75CE1F	70 nm	Connectology®

FOR MORE INFORMATION

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Entegris

Corporate Headquarters
129 Concord
Billerica, MA 01821
USA

Customer Service
Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083