

Planargard[®] NMB Bulk CMP Filters

Advanced node CMP slurry filtration with leading-edge “Nanofiber Continuous Melt-blown” technology

Delivering bulk CMP filtration solutions to advanced CMP applications, the Planargard[®] NMB CMP slurry filter is constructed of an advanced polypropylene membrane technology that produces a Nanofiber Continuous Melt-blown (NMB) fiber in-depth media structure. The NMB technology enables yield improvement in bulk chemical distribution system (BCDS) applications at advanced nodes.

Nanofiber Continuous Melt-blown Technology

Planargard NMB filters contain nanofibers and multilayer NMB media for an improved flow path with high retention. The large gradient design can maximize particle-loading capacity and reduce face-velocity due to increased media porosity, providing long-lasting filter performance without compromising filter retention performance.

Target Application

- Ceria and colloidal silica bulk slurry filtration
- Sub-fab CDS filtration



FEATURES & BENEFITS

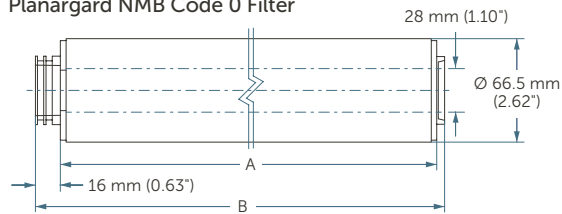
Low shear filtration	<p>Enables high retention performance for bulk chemical distribution system (BCDS) applications at advanced nodes</p> <p>Prevents filtered slurry to re-agglomerate after aging</p>
Improved nanofiber continuous melt-blown technology	<p>Superior defect reduction performance in next-generation CMP slurry</p> <p>Reduces slurry large particle count (LPC), which in turn minimizes the probability that micro-scratching can occur during polishing</p>
Optimized graded depth structure	<p>Longer-lasting filter performance</p> <p>Increased particle-holding capacity</p> <p>Lower face-velocity due to increased media porosity</p>
High-volume filter manufacturing	<p>Consistently high-quality performance</p> <p>More efficient process with shortened lead time to customers</p>

SPECIFICATIONS

Materials	Membrane	Polypropylene
	Support	Polypropylene
	Cartridge o-ring	EPR, FKM, Silicon, 2-222
Product type	MB	
Maximum operating conditions	Maximum temperature: 80°C (176°F)	
	Maximum forward differential pressure: 0.48 MPa (4.8 bar, 70 psi) @ 25°C (77°F)	

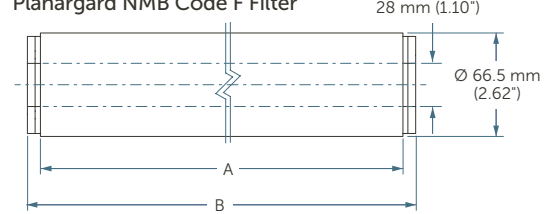
DIMENSIONS

Planargard NMB Code O Filter



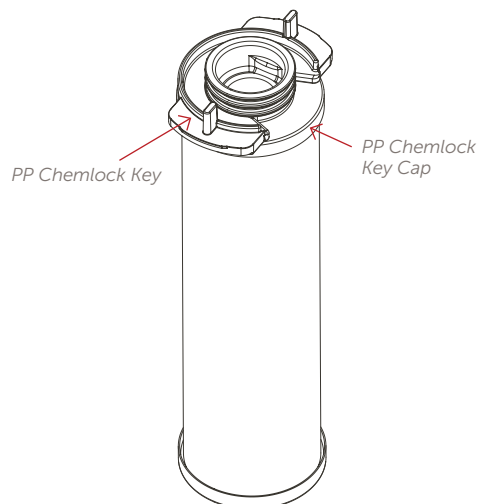
Length	A	B
10"	240 mm ±2 mm (9.45" ±0.08")	263 mm ±2 mm (10.35" ±0.08")
20"	494 mm ±2 mm (19.45" ±0.08")	517 mm ±2 mm (20.35" ±0.08")
30"	748 mm ±3 mm (29.45" ±0.12")	771 mm ±3 mm (30.35" ±0.12")
40"	1002 mm ±3 mm (39.45" ±0.12")	1024 mm ±3 mm (40.31" ±0.12")

Planargard NMB Code F Filter



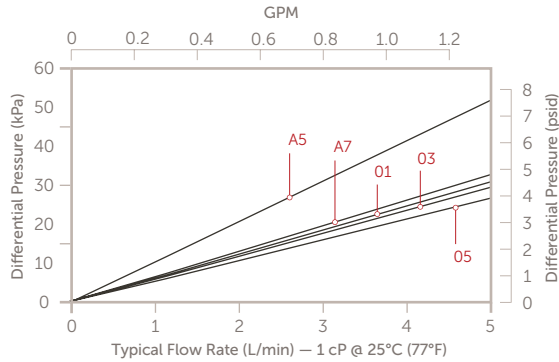
Length	A	B
10"	240 mm ±2 mm (9.45" ±0.08")	251 mm ±2 mm (9.88" ±0.08")
20"	494 mm ±2 mm (19.45" ±0.08")	505 mm ±2 mm (19.88" ±0.08")
30"	748 mm ±3 mm (29.45" ±0.12")	758 mm ±3 mm (29.84" ±0.12")
40"	1002 mm ±3 mm (39.45" ±0.12")	1013 mm ±3 mm (39.88" ±0.12")

View of PP Chemlock® Key on Cartridge



PERFORMANCE DATA

Planargard NMB 10" Cartridge

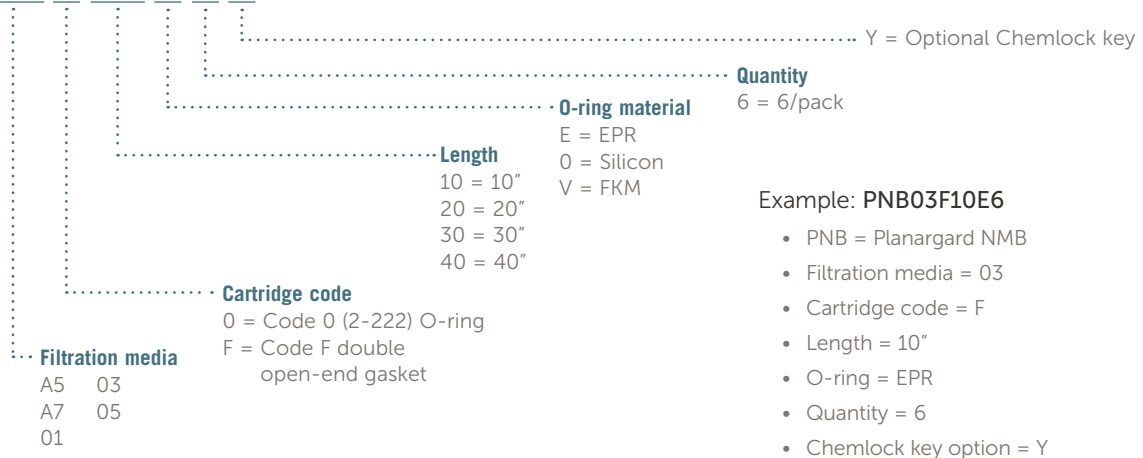


ORDERING INFORMATION

Planargard NMB Bulk CMP Filters: part number

PNB

6 Y



FOR MORE INFORMATION

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