

Planarcap[®] APR Filter

Next generation, point-of-dispense, CMP slurry filters for large and fine particle reduction

The Planarcap[®] APR (advanced particle reduction) CMP slurry filter is the solution to address both large and fine particle reduction for advance node slurry. With a patented multilayer media combination, APR technology can effectively reduce most large abrasive and slurry agglomerates.

APR Technology

APR technology contains a patented polymeric and non-polymeric media combination that has high retention ability to reduce large particles without sacrificing filter life. The additional absorption ability can remove fine particles and mitigate inadequate post-CMP cleans. Planarcap APR filters can be installed at final slurry dispense just before slurry contacts the wafer. APR technology is the best solution for advanced node slurries that require supreme particle reduction to enable yield.

APPLICATIONS

- Point-of-dispense, CMP slurry processes

FEATURES & BENEFITS

| | |
|---|--|
| Patented multi-media combination | High retention reduces wafer scratch defects, improving yield |
| APR technology | Absorbs fine particles, enhancing post-CMP clean efficiency |
| Point-of-dispense design | Installed right before slurry dispense, provides optimal slurry filtration prior to slurry dispense onto the wafer |



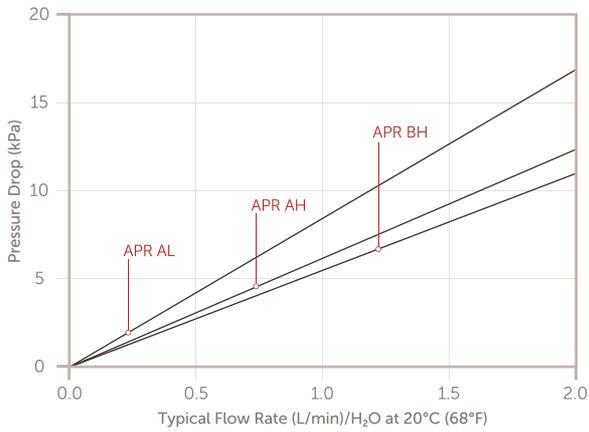
Supreme particle reduction for advanced node slurries.

SPECIFICATIONS

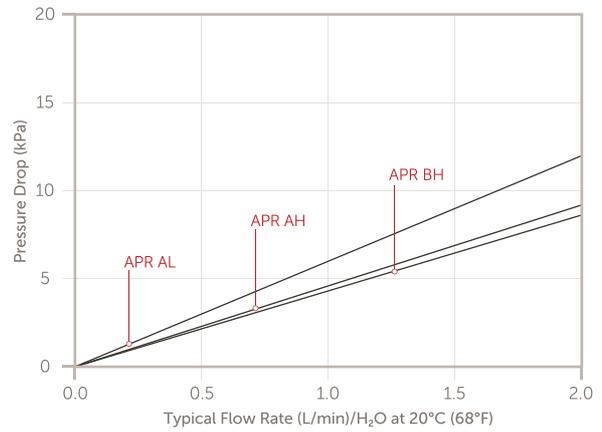
| | | |
|-------------------------------------|---------------------------------------|--|
| Materials of construction | Media | Patented polymeric and non-polymeric media combination |
| | Core, sleeve, shell | Polypropylene |
| Product type | Depth filter | |
| Length | 2.5", 5" | |
| Fitting connection | Inlet/outlet | 3/8" or 1/4" Flaretek® fitting |
| | Vent/drain | 1/4" Flaretek fitting or 1/8" MNPT |
| Maximum operating conditions | Maximum forward differential pressure | 0.4 MPa (4.0 bar, 58 psi) @ 25°C (77°F) |
| | Maximum operating temperature | 60°C (140°F) |

PERFORMANCE DATA

Planarcap® APR 2.5" Filters (Ø89 mm)

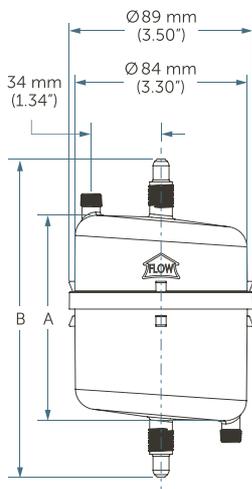


Planarcap® APR 5" Filters (Ø89 mm)

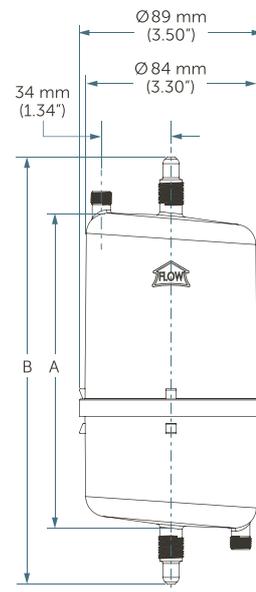


DIMENSIONS

2.5" Disposable, Ø89 mm



5" Disposable, Ø89 mm



DIMENSIONS

| | 2.5" | | 5" | |
|----------------|---------------|----------------|----------------|----------------|
| | A | B | A | B |
| 1/4" Flaretek® | 98 mm (3.86") | 152 mm (5.98") | 153 mm (6.02") | 208 mm (8.19") |
| 3/8" Flaretek | 98 mm (3.86") | 152 mm (5.92") | 153 mm (6.02") | 208 mm (8.19") |

ORDERING INFORMATION

| PART NUMBER | FILTRATION MEDIA | INLET/OUTLET | LENGTH | VENT/DRAIN |
|-------------|--------------------|----------------|--------|----------------|
| PCPAH0L2FH | pH 2-9, solid 10% | 1/4" Flaretek® | 5" | 1/8" MNPT |
| PCPAH0LF1H | pH 2-9, solid 10% | 1/4" Flaretek® | 5" | 1/4" Flaretek® |
| PCPAH0S2FH | pH 2-9, solid 10% | 1/4" Flaretek® | 2.5" | 1/8" MNPT |
| PCPAH0SF1H | pH 2-9, solid 10% | 1/4" Flaretek® | 2.5" | 1/4" Flaretek® |
| PCPAH3LF1H | pH 2-9, solid 10% | 3/8" Flaretek® | 5" | 1/4" Flaretek® |
| PCPAH3SF1H | pH 2-9, solid 10% | 3/8" Flaretek® | 2.5" | 1/4" Flaretek® |
| PCPAL0L2FH | pH 2-9, solid <2% | 1/4" Flaretek® | 5" | 1/8" MNPT |
| PCPAL0LF1H | pH 2-9, solid <2% | 1/4" Flaretek® | 5" | 1/4" Flaretek® |
| PCPAL0S2FH | pH 2-9, solid <2% | 1/4" Flaretek® | 2.5" | 1/8" MNPT |
| PCPAL0SF1H | pH 2-9, solid <2% | 1/4" Flaretek® | 2.5" | 1/4" Flaretek® |
| PCPAL3LF1H | pH 2-9, solid <2% | 3/8" Flaretek® | 5" | 1/4" Flaretek® |
| PCPAL3SF1H | pH 2-9, solid <2% | 3/8" Flaretek® | 2.5" | 1/4" Flaretek® |
| PCPBH0L2FH | pH 6-12, solid 10% | 1/4" Flaretek® | 5" | 1/8" MNPT |
| PCPBH0LF1H | pH 6-12, solid 10% | 1/4" Flaretek® | 5" | 1/4" Flaretek® |
| PCPBH0S2FH | pH 6-12, solid 10% | 1/4" Flaretek® | 2.5" | 1/8" MNPT |
| PCPBH0SF1H | pH 6-12, solid 10% | 1/4" Flaretek® | 2.5" | 1/4" Flaretek® |
| PCPBH3LF1H | pH 6-12, solid 10% | 3/8" Flaretek® | 5" | 1/4" Flaretek® |
| PCPBH3SF1H | pH 6-12, solid 10% | 3/8" Flaretek® | 2.5" | 1/4" Flaretek® |

FOR MORE INFORMATION

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