



Profile® II Filters for CMP Applications



Description

Profile II filters effectively remove agglomerated particles and gels from oxide, tungsten and copper CMP slurries, while not affecting slurry particle distribution.

- Depth filter with consistent, reproducible performance
- Continuously profiled pore structure for built-in prefiltration and long service life
- Steep efficiency curves result in minimal strip-out of desirable slurry particles while sharply increasing removal of oversized particles

Specifications

Materials

- Medium: Polypropylene
- Core, cage and end caps: Polypropylene
- O-rings option: Ethylene propylene (EPR)

Removal Ratings

- 0.2 μm , 0.3 μm , 0.5 μm , 1 μm , 3 μm , 5 μm , 10 μm , 20 μm , 30 μm and 40 μm (Profile filter removal ratings can be 5–10 times finer than traditional ratings for depth filters.)

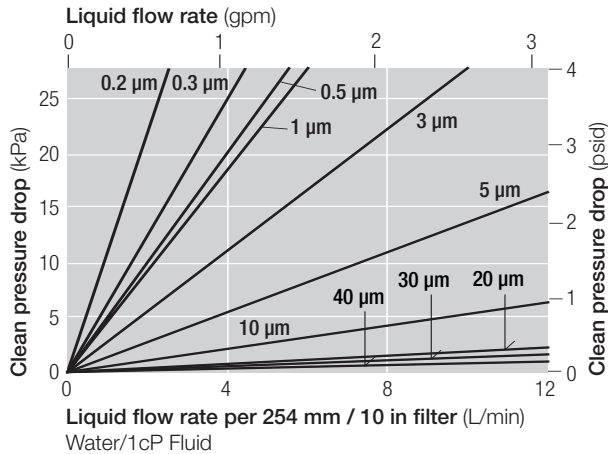
Configurations

- Nominal length: 254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in and 1016 mm / 40 in
- O-ring size / end caps:
Code 3 (222 double O-ring flat end)
Code 25 (222 double O-ring flat end)

Operating Conditions

- Maximum Temperature: 82°C/180°F
- Maximum Differential Pressure:
0.41 MPa @ 30°C / 60 psig @ 85°F;
0.34 MPa @ 50°C / 50 psid @ 120°F;
0.2 MPa @ 70°C / 30 psid @ 160°F;
0.1 MPa @ 82°C / 15 psid @ 180°F

Pressure Drop vs. Liquid Flow Rate¹



¹ For liquids with viscosities differing from water, multiply the pressure drop by the viscosity in centipoise.

Part Numbers / Ordering Information

Part Number	Removal Rating ² (µm)	Nominal Length ² (mm / in)	Configuration Code ²	O-Ring Material ²
AB1Y00225J	0.2	254 / 10	25	EPR
AB2Y00225J	0.2	508 / 20	25	EPR
AB1Y0033J	0.3	254 / 10	3	EPR
AB2Y0033J	0.3	508 / 20	3	EPR
AB1Y0053J	0.5	254 / 10	3	EPR
AB2Y0053J	0.5	508 / 20	3	EPR
AB1Y0103J	1	254 / 10	3	EPR
AB2Y0103J	1	508 / 20	3	EPR
AB1Y0303J	3	254 / 10	3	EPR
AB2Y0303J	3	508 / 20	3	EPR
AB1Y0503J	5	254 / 10	3	EPR
AB2Y0503J	5	508 / 20	3	EPR
AB1Y1003J	10	254 / 10	3	EPR
AB2Y1003J	10	508 / 20	3	EPR
AB1Y2003J	20	254 / 10	3	EPR
AB2Y2003J	20	508 / 20	3	EPR
AB1Y3003J	30	254 / 10	3	EPR
AB2Y3003J	30	508 / 20	3	EPR
AB1Y4003J	40	254 / 10	3	EPR
AB2Y4003J	40	508 / 20	3	EPR

² Other removal ratings, lengths, configurations, and O-ring materials are available.

Unit conversion: 1 bar = 100 kilopascals



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