

# VISPRO DA™

Fine Slurry Filters / Absolute Ratings



## INDUSTRIES & APPLICATIONS



**Electronics** : CMP slurries, MLCC slurries

VISPRO DA™ are all polypropylene depth pleated filters designed for fine slurry dispersion in chemical-mechanical polishing and multilayer ceramic capacitor applications.

VISPRO DA™ are composed of polypropylene melt-blown media that has graded fiber diameter and density. The construction provides exceptional filter service life with high flow rate, consistent retention and stability in wide range of operating conditions. The encapsulated filters simplify installation and change out with minimizing downtime and contamination of the process.

## FEATURES & BENEFITS

- Multi layered construction maximizes of filter life and removal efficiency in both high viscosity fluids and slurry filtration
- Graded density pore structure provides a long filter life
- High capacity reduces processing time and maintenance cost
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- No binders are present to interrupt product quality
- Available in a wide range of end styles and micron ratings

## TECHNICAL DATA

### Nominal Dimensions

- **Cartridge 68Ø**
- Length : 250, 500 mm
- Inner Diameter : 30 mm
- Outer Diameter : 68 mm

### CAP I

- Length : 143, 216 mm
- Outer Diameter : 71 mm / 73 mm

### CAP II

- Length : 203, 212 mm
- Outer Diameter : 97 mm

### CAP III

- Length : 292, 544 mm
- Outer Diameter : 71, 73 mm



### Capsule series from CAP I to CAP III



\* For details, see the Appendix II – Capsule Filter Types

### Materials of Construction

- **Filtration Media** Polypropylene
- **Support Media** Polypropylene
- **Inner Core** Polypropylene
- **Outer Cage** Polypropylene
- **End Caps** Polypropylene
- **Shell** Polypropylene
- **O-rings / Gaskets** Silicone, EPDM, Viton, TEV

### Max. Operating Temperature

- Cartridge : 80°C (176°F)
- Capsules : 60°C (140°F)

### Max. Operating Forward Differential Pressure

- 4 bard (58.0 psid) at 20 °C
- 3 bard (43.5 psid) at 40 °C
- 2 bard (29.0 psid) at 60 °C
- 1 bard (14.5 psid) at 80 °C

### Recommended Change Out Differential Pressure

- 2 bard (29.0 psid)

### Nominal Pore Sizes

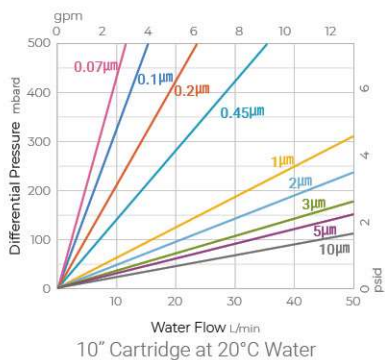
- 0.07, 0.1, 0.2, 0.45, 1, 2, 3, 5, 10 µm
- 99.9% (β-Ratio 1000) in accordance with modified ASTM F-795-88
- (Single pass, constant flow of 10LPM/10" cartridge, ISO standard dust A3 in water)

### Filtration Area

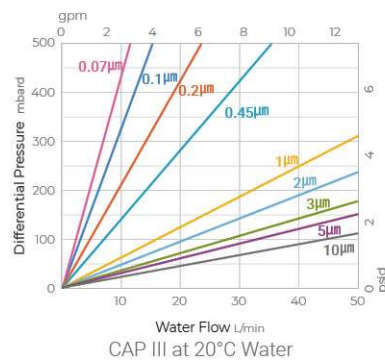
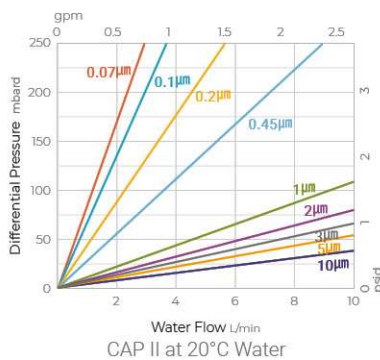
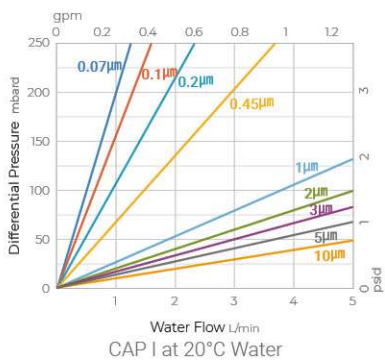
- Cartridge 68Ø : 0.25 m<sup>2</sup> / 10 inch
- CAP I : 0.06 m<sup>2</sup> / unit
- CAP II : 0.13 m<sup>2</sup> / unit
- CAP III : 0.25 m<sup>2</sup> / unit

**TYPICAL CLEAN WATER FLOW**

**CARTRIDGE**



**CAP**



**ABSFIL**

**ORDERING INFORMATION**

**CARTRIDGES**

① <b>VDA</b>	② <b>001</b>	③ <b>C1</b>	P	④ <b>S</b>	⑤ <b>10</b>
<b>MICRON RATING</b>		<b>END STYLE</b>		<b>SEALS</b>	<b>LENGTH</b>
P07 : 0.07µm P10 : 0.1µm P20 : 0.2µm P45 : 0.45µm 001 : 1µm 002 : 2µm 003 : 3µm 005 : 5µm 010 : 10µm		C1 : DOE C2 : 226Lock/FLAT C3 : c222/cFLAT E3 : 222/FLAT C7 : 226Lock/FIN E8 : 222/FIN		S : Silicone E : EPDM V : Viton F : TEV	10 : 250mm 20 : 500mm 1E : 254mm 2E : 508mm

**CAPSULE SERIES**

① <b>C1</b>	② <b>VDA</b>	③ <b>001</b>	④ <b>S6</b>	P	⑤ <b>S</b>	⑥ <b>1S</b>																																																		
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