

VISPRO DS™

Fine Slurry Filters / Long Life



INDUSTRIES & APPLICATIONS



Electronics : CMP slurries, MLCC slurries

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

VISPRO DS™ 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

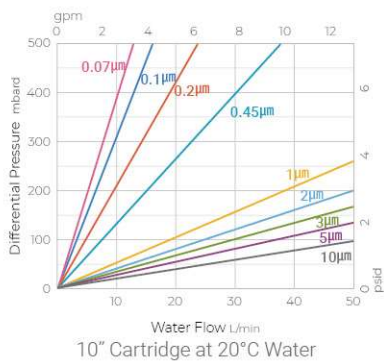
- 0.07, 0.1, 0.2, 0.45, 1, 2, 3, 5, 10 µm
- 99.9% (β-Ratio 1000) in accordance with modified ASTM F-795-88
- (Single pass, constant flow of 10LPM/10" cartridge, ISO standard dust A3 in water)

Filtration Area

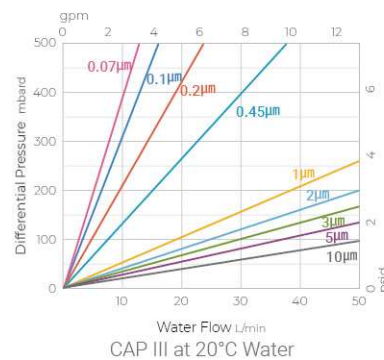
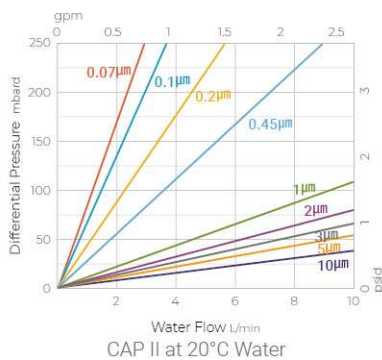
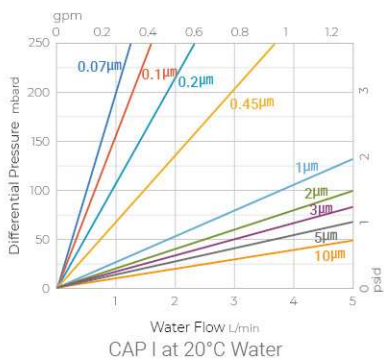
- Cartridge 68Ø : 0.25 m² / 10 inch
- CAP I : 0.06 m² / unit
- CAP II : 0.13 m² / unit
- CAP III : 0.25 m² / unit

TYPICAL CLEAN WATER FLOW

CARTRIDGE



CAP



ABSFIL

ORDERING INFORMATION

CARTRIDGES

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

CAPSULE SERIES

① C1	② VDS	③ 001	④ S6	P	⑤ S	⑥ 1S	
FILTER TYPE		END STYLE			SEALS	LENGTH	
C1 : CAP I		TYPE	CODE	In/Out Connection	Vent / Drain	TYPE	CODE
C2 : CAP II			S6	1/4" Swagelok	1/8" Swagelok	CAP 1	1S : Standard
C3 : CAP III			N6	1/4" NPT		CAP 2	2S : Standard
		CAP 1	F9	1/8" Flaretek	1/8" NPT	CAP 3	31 : 10"
			F9	3/8" Flaretek			32 : 20"
			P6	1/4" Super Pillar	1/8" Luer		
			CL	CL	NA		
		CAP 2	F9	3/8" Flaretek	NA		
			FE	1.5" Ferrule	1/4" Hose Barb		
		CAP 3	A1	One Touch Quick	1/4" NPT		
			B2	Coupling	NA		
MICRON RATING							
P07 : 0.07µm	001 : 1µm						
P10 : 0.1µm	002 : 2µm						
P20 : 0.2µm	003 : 3µm						
P45 : 0.45µm	005 : 5µm						
	010 : 10µm						

