



# VISPRO GN™

Bulk Slurry Filters / Nominal Ratings



## INDUSTRIES & APPLICATIONS

-  **Electronics** : LTCC slurries, Ceramic slurries
-  **Battery** : Electrode slurries

VISPRO GN™ are all polypropylene depth pleated filters designed for bulk slurry dispersion in 2<sup>nd</sup> battery electrode slurries and low temperature co-fired. ceramic slurries applications.

VISPRO GN™ 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 dust holding 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 III

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

### CAP IV

- Length : 335 mm
- Outer Diameter : 168 mm



### Capsule series CAP III and CAP IV



\* 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

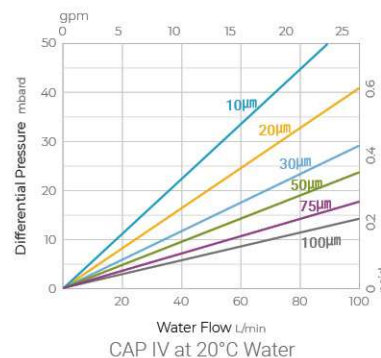
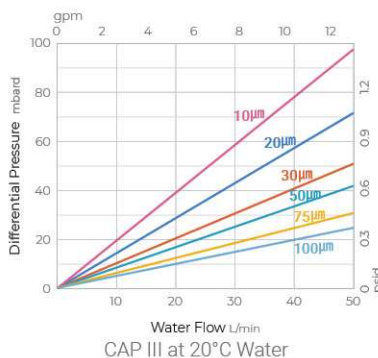
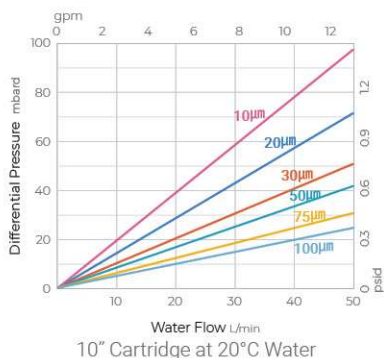
- 10, 20, 30, 50, 75, 100 µm
- 90% (β-Ratio 10) in accordance with modified ASTM F-795-88
- (Single pass, constant flow of 10LPM/10" cartridge, ISO standard dust A3 in water)

### Filtration Area

- Cartridge 68Ø : 0.6 m<sup>2</sup> / 10 inch
- CAP III : 0.6 m<sup>2</sup> / 10 inch
- CAP IV : 1.9 m<sup>2</sup> / 10 inch

## TYPICAL CLEAN WATER FLOW

### CARTRIDGE & CAP



## ORDERING INFORMATION

### CARTRIDGES

①	②	③	④	⑤
<b>VGN</b>	<b>001</b>	<b>C1</b>	<b>P</b>	<b>S</b>
	<b>MICRON RATING</b>	<b>END STYLE</b>	<b>SEALS</b>	<b>LENGTH</b>
	010 : 10µm 020 : 20µm 030 : 30µm 050 : 50µm 075 : 75µm 100 : 100µm	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 30 : 750mm 40 : 1,000mm 1E : 254mm 2E : 508mm 3E : 762mm 4E : 1,016mm

### CAPSULE SERIES

①	②	③	④	⑤	⑥
<b>C1</b>	<b>VGN</b>	<b>001</b>	<b>S6</b>	<b>P</b>	<b>S</b>
<b>FILTER TYPE</b>			<b>END STYLE</b>	<b>SEALS</b>	<b>LENGTH</b>
C3 : CAP III C4 : CAP IV			TYPE CODE In/Out Connection Vent / Drain	X : NA S : Silicone E : EPDM V : Viton F : TEV	TYPE CODE CAP 3 31 : 10" 32 : 20" CAP 4 4S : Standard
<b>MICRON RATING</b>					
010 : 10µm    050 : 50µm 020 : 20µm    075 : 75µm 030 : 30µm    100 : 100µm					