



Calyx Capsule Filter



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GVS capsules are disposable filtration units designed for the removal of particles or bacteria from aqueous or solvent solutions and gas streams. They are ready to use, eliminating the need to disassemble, clean and reassemble filter housings. GVS capsules contain no glue or surfactants and feature serial layer filter design for increased throughput and extended life. Two upstream vents are included to facilitate venting in any position. All capsules containing membrane media are preflushed with purified water to reduce extractables. GVS capsules made with Polypropylene housings are food compliant (FDA/EU), as restrictions may apply depending on final application, it is end user's responsibility to determine full compliance. All capsules pass class VI toxicology testing and are integrity tested prior to shipment. Capsule filters are available in sterile and non-sterile versions. The capsules are available with the following connections: 3/8 inch hose barb, 1/4 to 1/2 inch stepped hose barb, 1/4 inch NPTM, 1/2 inch NPTM, and 1.5 inch sanitary flange.



Features

- Available filter medias: PES, Nylon 66, PTFE
- Available housing material: Polypropylene, Polyester
- Cage and Core: Polypropylene
- Endcaps: Polypropylene, polyester
- Media Support: Polypropylene, polyester

Diameter: 3.5" (9 cm)

Capsule Size	Nominal Effective Filtration Area	Total Length Connector end-to-end ¹
Small	0.8 ft ² (748cm ²)	3.5-4.7" (9-13cm)
Medium	3.0 ft ² (2806cm ²)	7.6-8.8" (9-23cm)
Large	5.9 ft ² (5500cm ²)	11.5-12.7" (29-33cm)

¹Varies with connection style

All units are packaged in low particulate plastic bags and individual boxes. Sterile units are shrink wrapped and include a sterility indicator.

Operational Limits

Maximum Operational Pressure	80psi (5.5 bar) @ 70°F (21°C) in Liquid 50psi (3.8 bar) @ 70°F (21°C) in Gas
Maximum Differential Pressure	60psi (4.1 bar) @70°F (21°C)
Maximum Operating Temperature	110°F (43°C) @ ≤ 30 psi (2.1 bar) Operating Pressure
Autoclavable, PP Housing	110°F (121°C), 15psi, 30 minutes, up to 5 cycles

Media selection Guide

Teflon (PTFE) Hydrophobic Media: For Chemical and Vent Filtration, Acids, Base and Oxidant Filtration, Bulk Chemical, Electronics Grade Chemical Filtration, Sterile Venting, Process Air and Gas Filtration.

Polyethersulfone (PES) Hydrophilic Media: For Low Protein Binding and Broad Chemical Compatibility. ideal for Filtration of Acids, Bases, Oxidants, Serums, Solvents, Fine chemicals, Plating Solutions, Beverages, Electronics, Biologics, Lacquers, Parts Cleaning, Tissue Culture Media, Pharmaceutical Intermediates, Fine Inks and Dyes, Point of Use filtration for Process Water.

Nylon 66 Hydrophilic Media: Double Layer Media with a larger micron prefilter and second final filtration layer. For Beverages, Cosmetics, Electronics, Fine and Bulk Chemicals, Pharmaceuticals. Solvents, Fine chemicals, Ink Jets, Process Water, Parts Cleaning, Electronics, Biologics, Dyes, Lacquers. Avoid Acidic Solutions.

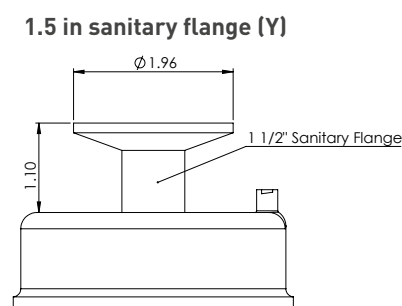
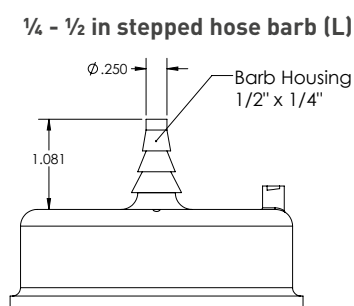
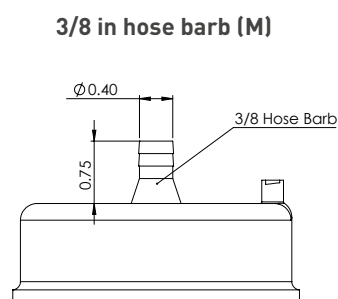
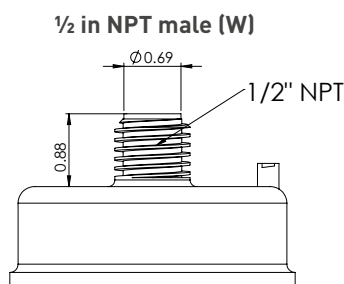
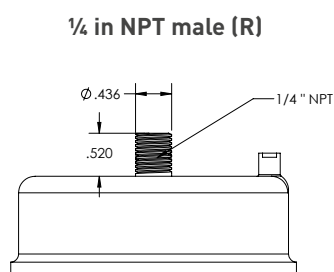
PP and PTFE media available in Polypropylene housings. Polypropylene housings may be repeatedly autoclaved for up to 5 cycles.

Nylon and PES media available in Polyester Housings. PES media also available in a PP housing by request.

Standard available combinations are shown in the tables below. Contact your local GVS sales representative for alternate solutions.

Adaptors Selection Guide

Unit of measure: inch



PTFE Capsule Filters - Hydrophobic - Polypropylene housing: Ordering information

Pore Size µm	Filtration area ft² (cm²)	Length in (cm)	Adaptors: L=¼ - ½ in stepped hose barb; M= 3/8 in hose barb; R=¼ in NPT male; Y=1.5 in sanitary flange; W=½ in NPT male			
			MM	RR	WW	YY
0.1	0.8 (748)	3.5 (9)		1213160		
		3.5 (9)		1213158		
0.2	0.8 (748)	4.0 (10)	1213155			
		4.3 (11)			1212937	
		4.7 (12)				1212978
0.2	5.9 (5500)	11.5 (29)		1212987		
0.4	0.8 (748)	3.5 (9)		1213161		
0.4	5.9 (5500)	11.5 (29)		1212992		

Nylon 66 Filter Media - Polyester housing: Ordering information

Pore Size µm	Filtration area ft² (cm²)	Length in (cm)	Adaptors: L=¼ - ½ in stepped hose barb; M= 3/8 in hose barb; R=¼ in NPT male; Y=1.5 in sanitary flange; W=½ in NPT male				
			LL	MM	RR	WW	YY
0.1	0.8 (748)	3.5 (9)			1213540		
		4.0 (10)	1212939	1213529	1213671		
0.2	0.8 (748)	3.5 (9)			1213561		
		4.0 (10)		1213550			
				1213757*			
0.4	0.8 (748)	3.5 (9)			1213577		
		4.0 (10)		1214457			
0.4	5.9 (5500)	12.0 (30)		1212908			
		12.3 (31)				1212911	

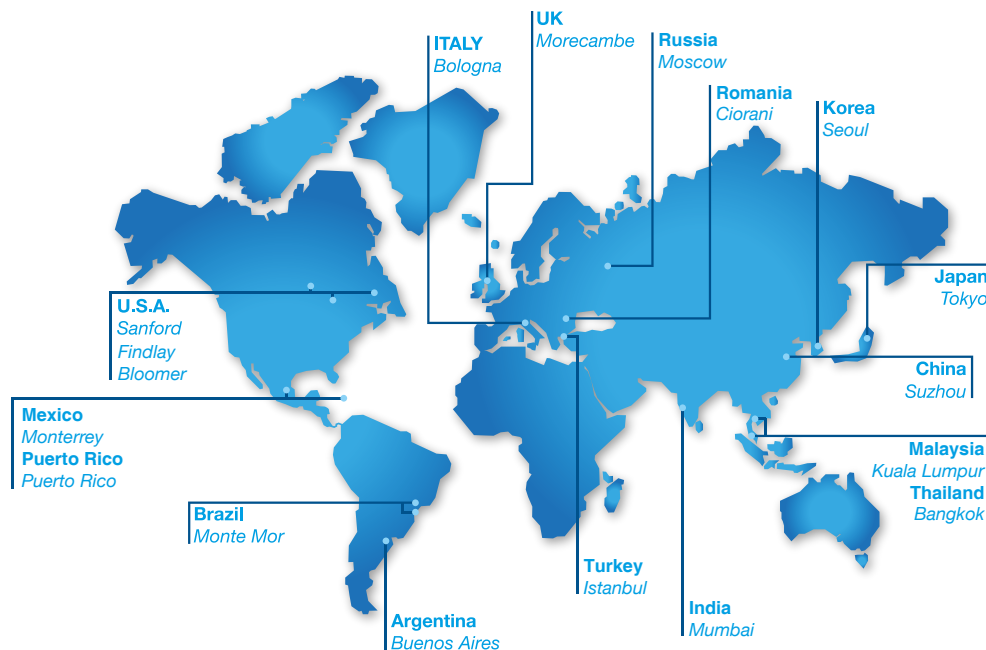
*sterile product

PES Polyethersulfone Filter Media - Polyester housing: Ordering information

Pore Size µm	Filtration area ft² (cm²)	Length in (cm)	Adaptors: L=¼ - ½ in stepped hose barb; M= 3/8 in hose barb; R=¼ in NPT male; Y=1.5 in sanitary flange; W=½ in NPT male					
			LL	MM	RR	WW	YY	WM
0.1	0.8 (748)	3.5 (9)			1222323			
		3.5 (9)			1213608			
0.2	0.8 (748)	4.0 (10)	1214225*		1214001*			
		4.7 (12)					1213956	
		4.0 (10)	1214436*					
0.2	3.0 (2808)	8.2 (21)						1235556**
		8.4 (21)				1215154		
		8.8 (22)				1223845*		
0.45	0.8 (748)	3.5 (9)			1213610		1222327	
		4.0 (10)	1214227*					
0.45	3.0 (2808)	8.1 (20)	1222432*					
0.45		8.8 (22)					1215030	

* Sterile

** PP Housing



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PRODUCT COLLECTION - Calyx Capsule Filter

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