



Graver Technologies

Filtration | Separation | Purification

GCAP™ Series Encapsulated Filters

Encapsulated Filters

Graver Technologies cartridge filters can be encapsulated to provide a self-contained, disposable filter assembly. The advantages include minimal operator exposure to hazardous chemicals, ease of changeout, and assurance of a positive seal. In addition, with these larger geometry capsules users maintain the flow and life advantages of cartridges compared to small POU capsules.

Capsule Features–Benefits

- Available with any Graver cartridge filter inside – pleated, depth, membrane
- A variety of end fittings are available to retrofit into existing processes
- All polypropylene capsule in FDA listed materials of construction
- Also available in black for light impermeability
- Eliminates operator exposure to hazardous fluids during changeout
- Optional quick-connect manifold available
- Protect sensitive chemicals from air exposure
- Maintain cartridge cleanliness - no handling

GCAP Filter Specifications

Construction:

Top and Bottom cap: 100% FDA listed polypropylene
 Shell: 100% FDA listed polpropylene
 Weld: 100% polypropylene

Inlet/Outlet options: 3/4" NPT, 1.5" sanitary flange,
 3/4" Flaretek®, 3/8" Flaretek®

Vent/Drain options: 1/4" vent, 1/4" drain, none

Lengths: 5" to 40" (12.7 to 101.6 cm)

Filter Seal: DOE (P) or 222/flat (P3) only

Operating Conditions

Maximum operating pressure: 125 psig @ 125°F (8.6 bar @ 52°C)

Maximum DP at ambient temperature: 60 psid (4.1 bar)

Recommended max flow rate: * 10 GPM (37.7 LPM)



Applications

- Photographic Solutions
- Chemicals
- Magnetic Coatings
- Paint/Ink
- Water
- Plating
- Pharmaceuticals
- Food and beverages
- Microelectronics

* Max based on capsule inlet/outlet size. In most cases the max flow will be lower based on the filter being used.

GCAP Nomenclature Information

GCAP	Length	Inlet/Outlet	Port Options	Filter Type (P or P3 Style Only)
GCAP 100% polypropylene GCAPB Black, Light Impermeable	5	(other options available - consult factory) E1 = 3/4" NPT inlet and outlet on same end	V = 1/4" Vent D = 1/4" Drain	QMC 5-10P3E
	10	E1M = Same as E1 but with o-ring for use with manifold*		
	20	E2 = 3/4" NPT on each end		
	30	E3** = 1.5" sanitary flange on each end		
	40	E4 = 3/4" Flaretek® on each end		
		E5 = 3/8" Flaretek® on each end		

Example: GCAP10 E2VD-QMC 5-10P3E

* O-ring material on capsule will be same as selected for filter

** P3 style filter only on E3 style capsule

Optional parts:

GCAP Manifold HPPP – 3/4" FNPT inlet/outlet, High Purity Polypropylene Manifold with 303 SS bracket

GCAP Manifold GFPP – 3/4" FNPT inlet/outlet, 20% glass filled PP Manifold with 303 SS bracket

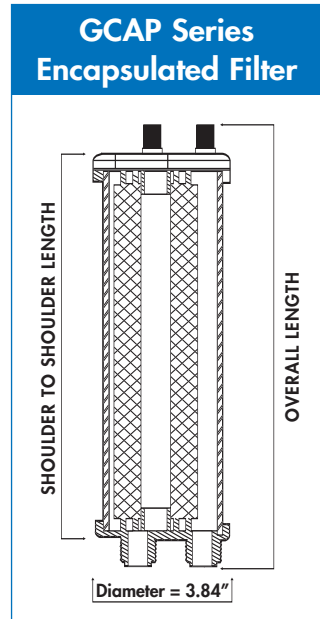
GCAP Manifold BPP – 3/4" FNPT inlet/outlet, Black Polypropylene Manifold with 303 SS bracket

Capsule Dimension:

Nominal Capsule Length	Shoulder to shoulder Length	Overall Length				
		E1 3/4" NPT same end	E2 3/4" NPT each end	E3 1.5" sanitary	E4 3/4" Flare-Tech	E5 3/8" Flare-Tech
5	6.812	9.512	9.512	9.412	9.512	9.192
10	11.812	14.512	14.512	14.412	14.512	14.192
20	21.812	24.512	24.512	24.412	24.512	24.192
30	31.812	34.512	34.512	34.412	34.512	34.192
40	41.812	44.512	44.512	44.412	44.512	44.192

Lengths for Capsules made with DOE filters. Length will vary for capsules made with 222 style filters.

Note: For chemical compatibility, flow rates, and temperature requirements please consult the factory or your local Graver distributor.



For more information

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