



## 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)
<b>GCAP</b> 100% polypropylene <b>GCAPB</b> Black, Light Impermeable	<b>5</b>	(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
	<b>10</b>	E1M = Same as E1 but with o-ring for use with manifold*		
	<b>20</b>	E2 = 3/4" NPT on each end		
	<b>30</b>	E3** = 1.5" sanitary flange on each end		
	<b>40</b>	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:

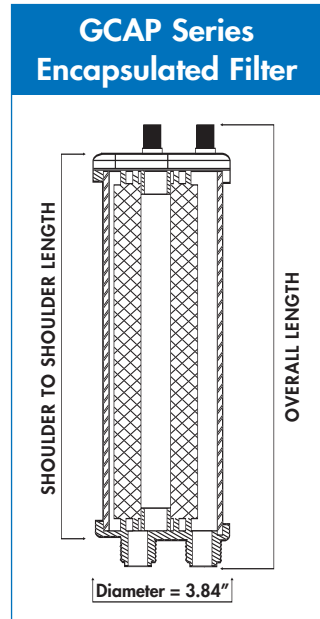
GCAP Manifold HPPP – 3/4" FNPT inlet/outlet, High Purity Polypropylene Manifold with 303 SS bracket

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.



(Toll Free) **877.375.1290**

7601 Stadium Drive Kalamazoo, MI 49009

[www.flowtechfilters.com](http://www.flowtechfilters.com)

DISTRIBUTED BY:

All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Flaretek is a registered trademark of Entegris, Inc. GCAP is a trademark of Graver Technologies, LLC.

