Graver Technologies

Filtration | Separation | Purification

GFP™ Series Filter Cartridges

High Temperature
Glass Fiber Cartridges (GFP)

This high efficiency, disposable filter element is suited for a wide range of applications. The filter is constructed of pleated Borosilicate Microfiberglass filter media with greater surface area for high system flow rate.

Features–Benefits

- Polyester hardware extends application range beyond the limits of polypropylene.
- Higher temperature capability of 230°F (110°C)
- Micron ratings from 0.2 to 30 µm – Broad application range
- Uniform pore size – High removal efficiency
- High surface area – High flow capability and dirt holding capacity
- Long service life – Minimizes maintenance costs
- Fixed pore construction – Eliminates dirt unloading at maximum differential pressure

Product Specifications

Media:	*Borosilicate Microfiberglass with Acrylic Binder*
Inner core:	*Polyester*
Support layers:	*Polyester*
End caps:	*Polyester*
Cage:	*Polyester*
Gaskets/O-Rings :	*Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only)*
Micron ratings:	*0.2, 0.45, 1.0, 3.0, 10, 30 µm*

Dimensions

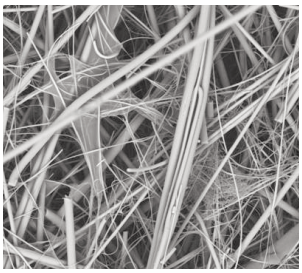
Nominal lengths:	*5”, 9.75’’, 10’’, 20’’, 30’’, 40’’ (12.7, 24.8, 25.4, 50.8, 76.2, 101.6 cm)*
Outside diameter:	*2.7’’ (6.9 cm)*
Inside diameter:	*1.0’’ (2.54 cm)*

Operating Parameters

Maximum operating temperature:	*230 °F (110°C)*
Maximum differential pressure:	*75 psid @ 70°F (5.2 bar @ 21°C)* *60 psid @ 200°F (4.1 bar @ 93°C)* *50 psid @ 230°F (3.4 bar @ 110°C)*
Recommended change-out pressure:	*35 psid (2.4 bar)*

Typical Applications

- Petrochemicals
- Chemicals
- Solvents
- Inks
- Oil & Gas
- Lube Oil



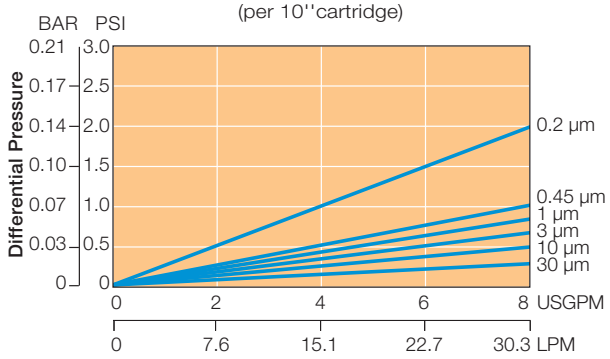
GFP Nomenclature Information

GFP	3	-10	P3	B
Filter Type GFP Series Filters	**Retention Rating (microns)** **0.2** **0.45** **1** **3** **10** **30**	**Nominal Length (inches)** **-5** **-9.75** **-10** **-20** **-30** **-40**	**End Configuration** **P** Double Open End **P2** 226/Flat Single Open End **P3** 222/Flat Single Open End **P7** 226/Fin Single Open End **P8** 222/Fin Single Open End	**Gasket or O-Ring** **S** Silicone **B** Buna-N **E** EPDM **V** Viton **T** Teflon endcap. Viton (O-Rings only)

Example: GFP 3-10P3B

GFP FLOW RATE

Typical Flow Rate Clean Water at Ambient Temperature
(per 10''cartridge)



For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise

Removal Efficiency

Beta Ratio Efficiency	*Beta 10 90%*	*Beta 20 95%*	*Beta 100 99%*	*Beta 1000 99.9%*	*Beta 5000 99.98%*
0.2 micron	*0.2*	*0.3*	*0.6*	*0.8*	*1.0*
0.45 micron	*0.45*	*0.6*	*0.8*	*1.8*	*2.0*
1 micron	*1.0*	*1.3*	*2.0*	*3.5*	*4.0*
3 microns	*3.0*	*4.0*	*5.5*	*9.0*	*10.0*
10 microns	*10.0*	*12.0*	*15.0*	*17.0*	*18.0*
30 microns	*30.0*	*35.0*	*38.0*	*42.0*	*45.0*

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water at 2.5 gpm/10'' cartridge. Contaminant's included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

For more information

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