Graver Technologies

Filtration | Separation | Purification

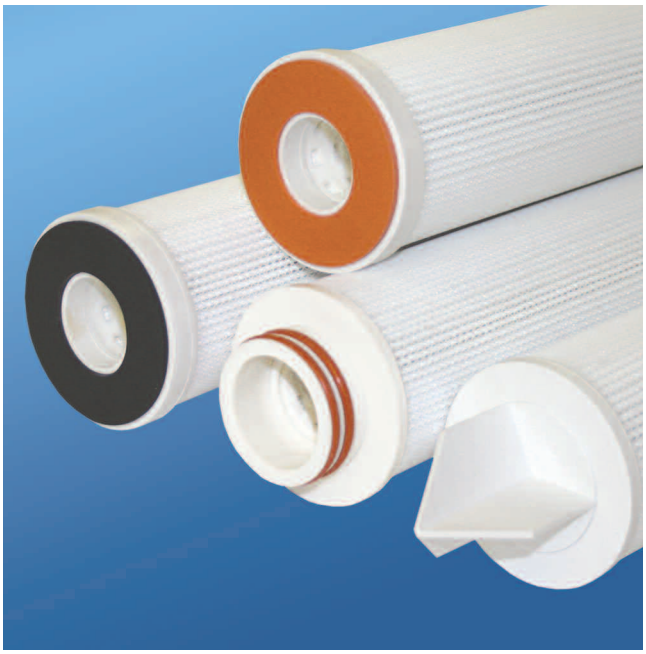
GFP™ Microfiberglass Filter Series

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.

Filter 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



Filter Specifications

Media:	*Borosilicate Microfiberglass with Acrylic Binder*
Inner core:	*Polyester*
Support layers:	*Polyester*
End caps:	*Polyester*
Cage:	*Polyester*
Gasket/O-Rings :	*Buna-N, EPDM, Silicone, Teflon Encapsulated Viton O-Rings*
Micron ratings:	*0.2, 0.45, 1.0, 3.0, 10, 30 µm*
Dimensions and Operating Parameters	
Nominal lengths:	*9.75'' 10'', 20'', 30'', 40'' (24.7, 25.4, 50.8, 76.2, 101.6 cm)*
Outside diameter:	*2.7'' (6.9 cm)*
Inside diameter:	*1.0'' (2.54 cm)*
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 for disposal:	35 psid (2.4 bar)

Filter 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*
1.0 micron	*1.0*	*1.3*	*2.0*	*3.5*	*4.0*
3.0 microns	*3.0*	*4.0*	*5.5*	*9.0*	*10.0*
10.0 microns	*10.0*	*12.0*	*15.0*	*17.0*	*18.0*
30.0 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. Contaminants included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.

Applications

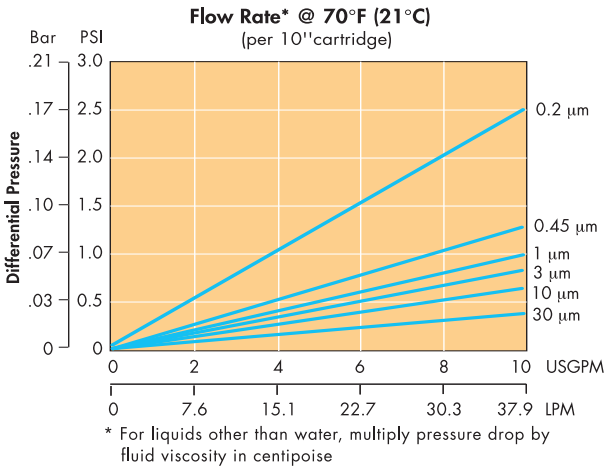
- Petrochemicals
- Solvents
- Boiler Water
- Lube Oil
- Chemicals
- Inks
- Oil & Gas

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)** **-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 encap. Viton (O-rings only)

Example: GFP 3-10 P3B

GFP FLOW RATE



For more information

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