



Graver Technologies

Filtration | Separation | Purification

# High Flow GF Series Filter Cartridges

## Large Geometry Pleated Filters for High Flow

Graver High Flow GF Series filters feature microfiberglass media in a larger geometry to handle higher flows with fewer filter elements. The result is much faster, easier filter changeouts. In addition, the inside to outside flow allows for excellent dirt holding capacity, extending the time between filter changeouts. Filter housings are also available and because of the filters high flow and dirt holding capacity, smaller systems are possible, reducing upfront capital costs.

## High Flow GF Series Features - Benefits

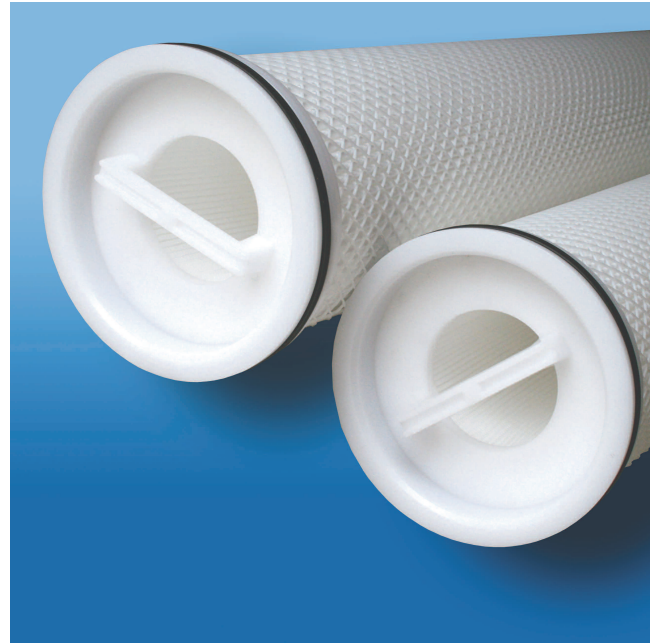
- Materials of construction allow compatibility with some chemistries not served by all polypropylene elements.
- 6" diameter, large geometry for high flows
- Absolute retention ratings from 1 to 20 microns
- Capable of flow rates up to 500 GPM in a single 60" element
- Inside-out flow retains contaminant even during changeout
- Outer cage prevents media extrusion problem experienced with some competitive offerings
- Unique Quad Seal gasket provides maximum seal integrity
- Retrofits competitive high flow filter housings
- Thermally bonded construction

## Filter Specifications

Media:	Microfiberglass
Support/Cage:	Polyester or polypropylene
End caps:	Acetal or polypropylene
Gaskets/O-rings:	EPDM, Silicone, Buna N, Viton
Micron ratings:	1, 2.5, 4.5, 10, 20

## Dimensions

Nominal lengths:	20, 40, 60 inches (50.8, 101.6, 152.4 cm)
Outside diameter:	6.0 in (15.2 cm)



## Operating Conditions

Maximum operating temperature:	70°F @ 75psid (5.2 bar @ 21°C) 230°F @ 50psid (3.4 bar @ 110°C)
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Recommended changeout differential pressure:	35psid (2.4 bar)
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Maximum flow rates:	60" element up to 500 GPM (1892 lpm) 40" element up to 350 GPM (1325 lpm) 20" element up to 175 GPM (662 lpm)
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## Applications

- Fuel Oil
- Chemicals
- Petrochemicals
- Solvents
- Oil & Gas

## Filter Removal Efficiency

Micron Rating Beta Ratio	99.9% Beta 1000	99% Beta 100	90% Beta 10
1 micron	1	0.6	0.2
2.5 micron	2.5	0.8	0.45
4.5 micron	4.5	2	1
10 micron	10	5.5	3
20 micron	20	15	10

## High Flow GF Series Nomenclature Information

HFGF	-A	-2.5	-60	E
Product Series	Hardware Material	Retention Rating (microns)	Length (inches)	Gasket or O-Ring
HFGF-High Flow GF Series	P = Polypropylene A = Acetal caps polyester cage	1 2.5 4.5 10 20	20 40 60	E EPDM S Silicone B Buna N V Viton

Example: HFGF-A-2.5-60E = High Flow filter with glass media, acetal end caps, polyester cage, 2.5 micron, 60" length, EPDM gasket

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

## High Flow GF Series Pressure Drop

Micron	Element Pressure Drop psid/gpm			Element Pressure Drop Mbar/M <sup>3</sup> /hr		
	20"	40"	60"	20"	40"	60"
1	0.0394	0.0197	0.0131	11.9419	5.9709	3.9806
2.5	0.0183	0.0091	0.0061	5.5385	2.7692	1.8462
4.5	0.0144	0.0072	0.0048	4.3549	2.1775	1.4516
10	0.0095	0.0048	0.0032	2.8830	1.4415	0.9610
20	0.0069	0.0035	0.0023	2.0940	1.0470	0.6980

### For more information

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