

FILTRATION | SEPARATION | PURIFICATION



Product Specifications

Media: Borosilicate Microfiberglass with Acrylic Binder

Inner Core: Polypropylene

Support Layers: Polyester

Cage, End Caps: Polypropylene

Gaskets/O-Rings: Buna-N, EPDM, Silicone, Teflon Encapsulated Viton (O-Rings only), Viton

Micron rating: 0.2, 0.45, 1.0°, 3.0, 10, 30 μm *1 micron grade features all FDA listed materials of construction

Dimensions

 Sominal 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"
 (6.86 cm)

Inside diameter: 1.0" (2.54 cm)

Operating Parameters

Maximum operating temperature: 176°F (80°C)

Maximum differential pressure: 75 psid @ 70°F (5.2 bar @ 21°C) 30 psid @ 176°F (2.0 bar @ 80°C)

Maximum reverse pressure: 40 psid @ 70°F (2.8 bar @ 21°C)

Recommended change-out pressure: 35 psid (2.4 bar)

GFC[™] Series Filter Cartridges

Glass Fiber Cartridges

This high efficiency, economical filter element is constructed of pleated Borosilicate Microfiberglass media that combines excellent flow rates with exceptional service life. The nominally-rated borosilicate microfiber depth matrix has a natural positive charge that aids in the retention of negatively charged particulates such as colloidal materials or contaminants that may form haze within a fluid. The depth characteristic of glass media also provides enhanced retention of deformable particles as compared to typical polypropylene media. The GFC filter cartridge is an economical solution for both liquids and gases in a wide variety of prefiltration applications.

FEATURES & BENEFITS

- 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

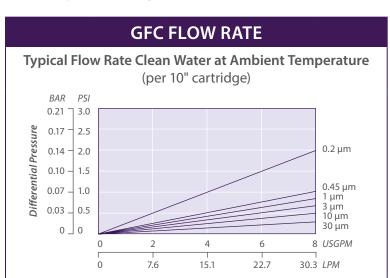
TYPICAL APPLICATIONS

- Wine prefiltration
- Chemicals
- Blowdown post filter
- Inks

- Oil & Gas
- Serum
- Tissue culture media
- Cutting oils

GFC NOMENCLATURE INFORMATION												
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring		Options			
GFC Series	0.2 0.45 1 e: GFC 3-1	3 10 30	-5 -9.75* -10	-20 -30 -40	P P2 P3 P7 P8 AM NPC	Double Open End 226/Flat Single Open End 222/Flat Single Open End 226/Fin Single Open End 222/Fin Single Open End, Internal O-Ring Double Open End, Internal O-Ring	B S T	Buna-N EPDM Silicone Teflon encap. Viton (O-Rings only) Viton	–I End Cap Insert for Steaming			
GFC	3		-10		P7		В		-l			

*Available only for DOE (P) configuration



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 µm	0.2	0.3	0.6	0.8	1.0					
0.45 μm	0.45	0.6	0.8	1.8	2.0					
1 µm	1.0	1.3	2.0	3.5	4.0					
3 µm	3.0	4.0	5.5	9.0	10.0					
10 µm	10.0	12.0	15.0	17.0	18.0					
30 µm	30.0	35.0	38.0	42.0	45.0					

Beta Ratio =

Upstream particle counts 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.

FOR MORE INFORMATION

Customer Service/Technical Support: 1-888-353-0303 Europe (UK): +44-1424-777791 | China: +86-21-5238-6576 Asia: +65-9635-7690

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Graver Technologies | 200 Lake Drive, Glasgow, DE 19702 | 302-731-1700 | 800-249-1990 Fax: 1-302-369-0938 | info@gravertech.com | www.gravertech.com

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