

FILTRATION | SEPARATION | PURIFICATION



Product Specifications

Media/Support/Cage: Polypropylene

End Caps: Polypropylene

Gaskets/O-Rings:

Buna-N, EPDM, Silicone, Teflon Encapsulated Viton

Micron rating:

1, 3, 5, 10, 20, 40, 60, 75, 100 μm

Dimensions

Nominal length:

40" 60" 101.6 152.4 cm

Outside diameter: 6.5" (16.5 cm)

Surface Area:

43 ft² (4.0 m²) per 40" element 64 ft² (5.9 m²) per 60" element

Operating Parameters

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

Maximum differential pressure: 60 psid @ 70°F (4.1 bar @ 21°C) 30 psid @ 176°F (2.0 bar @ 80°C)

Maximum reverse pressure: 25 psid @ 70°F (2.0 bar @ 21°C)

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

Maximum flow rates*:

Up to 80 GPM (302 lpm) for P2 Up to 500 GPM (1890 lpm) for P30

*Consult factory for sizing assistance based on particle loads.

High Flow RF Series Filter Cartridges

Large Geometry Pleated Filters for High Dirt Loading

Graver High Flow RF Series filter is another in the series of larger geometry filters to handle higher volume applications with fewer filter elements. The result is much faster, easier filter changeouts. In addition, the multi-layer media construction allows for excellent dirt holding capacity, extending the time between filter changeouts. Filter housings are also available and because of the filter's high dirt holding capacity, smaller systems are possible, reducing upfront capital costs.

FEATURES & BENEFITS

- 6.5" diameter, large geometry for high flow rates
- Absolute retention ratings from 1 to 100 microns
- Capable of flow rates up to 80 GPM in the P2 configuration and 500 GPM in the P30 configuration
- Multi-layer pleated construction with optimized surface area
- Retrofits competitive large diameter filter housings utilizing the "740" design or the large diameter 338 o-ring design
- Thermally bonded construction
- All polypropylene construction provides for a high level of chemical compatability

CERTIFICATIONS

- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Pending
- NSF 61: Certified to NSF/ANSI STD 61 for materials requirements only — Component.

TYPICAL APPLICATIONS

- Water Systems
- · Refinery Operations
- Wastewater Processes

- Chemicals
- Food and Beverage

HIGH FLOW RF NOMENCLATURE INFORMATION							
Product Series	Retention Rating (microns)		Length (inches)	End Configuration		Gasket or O-Ring	
HF RF Series	1	40	-40	P2 226/Flat Single	В	Buna-N	
	3 60 -60 Open End* 5 75 P30 338/Flat Single		Ε	EPDM			
		338/Flat Single Open End	S	Silicone			
	10	100			Open End	Т	Teflon encap. Viton
	20					V	Viton
Example: HF RF 5–40P2E							
HF RF	5		-40	P2		Е	

^{*}Available only as 40" nominal length

HIGH FLOW RF PRESSURE VALUES									
Clean Pressure Drop versus Flow at Ambient Temperature — PSID (mbar)									
Flow (LPM)	1 μm	3 μm	5 μm	10 μm	20 μm	40 μm	60 μm	75 μm	100 μm
20 GPM (75.7)	0.6 (41)	0.3 (20)	0.2 (13)	0.2 (13)	0.2 (13)	0.2 (13)	0.2 (13)	0.2 (13)	0.1 (7)
40 GPM (151.4)	0.9 (62)	0.6 (41)	0.5 (34)	0.5 (34)	0.5 (34)	0.4 (27)	0.4 (27)	0.35 (24)	0.2 (13)
60 GPM (227.1)	1.6 (110)	1.1 (75)	0.9 (62)	0.9 (62)	0.9 (62)	0.75 (51)	0.75 (51)	0.6 (42)	0.5 (34)
80 GPM (302.8)	2.2 (151)	1.4 (96)	1.2 (82)	1.2 (82)	1.2 (82)	0.9 (62)	0.9 (62)	0.85 (58)	0.75 (51)

REMOVAL EFFICIENCY					
Beta Ratio Efficiency	Beta 1000 99.9%	Beta 100 99%	Beta 10 90%		
1 μm	1.0	0.6	0.2		
3 μm	3.0	2.0	1.5		
5 μm	5.0	4.0	3.0		
10 μm	10.0	8.5	6.5		
20 μm	22.0	19.0	14.0		
40 μm	38.0	18.0	15.0		
60 μm	60.0	35.0	20.0		
75 μm	75.0	48.0	35.0		
100 μm	100.0	75.0	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 3 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

GTX-355 3-19

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