



Graver Technologies

FILTRATION | SEPARATION | PURIFICATION



High Flow CR Series Filter Cartridges

Large Geometry Pleated Filters for helping to ensure the safety of the water supply

Product Specifications

Media: Polypropylene and TECpore Polyethersulfone Membrane

Support/Cage/End Caps: Polypropylene

Gaskets/O-Rings:

Buna-N, EPDM, Silicone, Viton

Micron rating:

0.8 μ m

Dimensions

Nominal lengths:

20" 40" 60"

50.8 101.6 152.4 cm

Outside diameter: 6.0" (15.2 cm)

Surface Area:

52 ft² (4.8 m²) per 20" element

104 ft² (9.7 m²) per 40" element

156 ft² (14.5 m²) per 60" element

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)

Maximum flow rates*:

60" element up to 178 GPM (674 lpm)

40" element up to 118 GPM (446 lpm)

20" element up to 66 GPM (250 lpm)

*Consult factory for sizing assistance based on particle loads.

HEALTH DANGERS OF CRYPTOSPORIDIUM

Water borne disease has been traced to Cryptosporidium and Giardia parasites that may be present in many surface water sources. Healthy individuals typically recover from the common gastrointestinal effects, however for individuals with weakened or undeveloped immune systems, it can be life threatening. These naturally occurring organisms are highly resistant to inactivation by conventional water treatment processes such as chlorination and thus require high performance mechanical removal technologies.

In order to ensure the safety of the water supply, standards have been established that define the minimum performance requirements for materials and components of water treatment systems. The HFCR Cyst Reduction filter contains an absolute 1 micron filter media designed to provide a minimum log reduction credit of >3.0 for cysts based on the test requirements of the Long term 2 Enhanced Surface Water Treatment Rule (LT2).

Graver High Flow Series filters feature a larger geometry to handle higher flows with fewer filter elements. The result is much faster, easier filter changeouts, upfront capital costs.

FEATURES & BENEFITS

- Constructed of polypropylene and TECpore polyethersulfone — compatible with most fluids
- 6" diameter, large geometry for high flow rates
- Inside-out flow retains contaminant even during changeout
- Multi layer (PP/PES) pleated construction with optimized surface area
- Unique Quad Seal gasket provides maximum seal integrity
- Retrofits competitive high flow filter housings
- Thermally bonded construction
- Hard Cage to prevent media possible extrusion problem

CERTIFICATIONS

- USP Class VI: Meets UPS Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, 177.2600 as applicable for food and beverage contact.
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011 with amendments and corrections from European Reg N. 2020/1245: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

CERTIFICATIONS (CONTINUED)

- LT2: Performance tested and verified by independent 3rd party laboratory to comply with Long Term 2 Enhanced Surface Water Treatment Rule for reduction of cysts based on QCR size with same filter media. Data available upon request.

PERFORMANCE SPECIFICATIONS

- Cleaning/Sanitization: Cartridges may be autoclaved for 30 minutes at 250°F (121°C) under no end load conditions.
- Steam/Autoclave: Cartridges fitted with steam insert may be steamed for at least 10 30-minute cycles @ 275°F (135°C) not to exceed 3 psid (0.21 bar).

HIGH FLOW CR SERIES NOMENCLATURE INFORMATION

Product Series	Retention Rating (microns)	Length (inches)	Gasket or O-Ring	Option
HFCR Series	0.8	-20 -40 -60	B Buna-N E EPDM S Silicone V Viton	-HC Hard Cage
Example: HFCR 0.8-40S-HC				
HFCR	0.8	-40	S	-HC

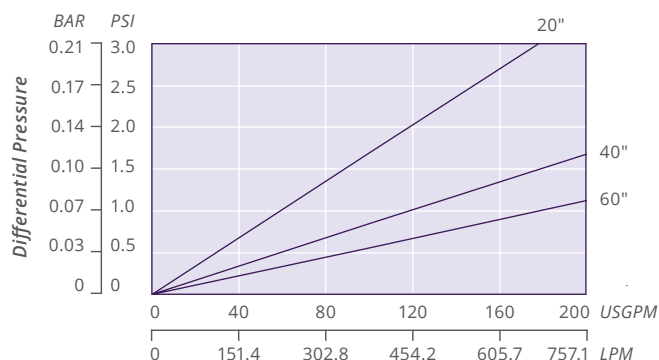
HIGH FLOW CR PRESSURE DROP

Micron	Element Pressure Drop psid/gpm			Element Pressure Drop Mbar/M3/Hr		
	20"	40"	60"	20"	40"	60"
0.8	0.0169	0.0169	0.0056	4.272	2.55	1.700

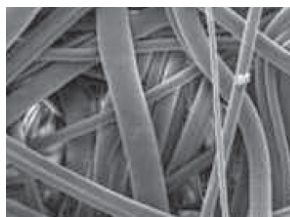
For chemical compatibility, flow rates, and temperature requirements please consult the factory or your local Graver distributor.

HFCR FLOW RATE

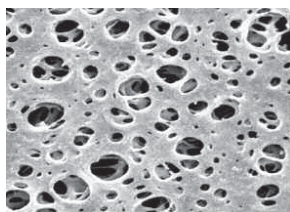
Typical Flow Rate Clean Water at Ambient Temperature
(per 10" cartridge)



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



PP Media: Prefilter



PES Membrane: Final layer

FOR MORE INFORMATION

GTX-384 5-26

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