GENERAL FILTRATION

High Flow Cartridge Filters

Large Geometry Pleated Filters for High Flow

Product Specifications

Media:
Polypropylene

Core, End Caps, Cage:
Polypropylene

Gasket/O-Rings:
Many options available

Dimensions:
Outside Diameter: 6.0" (15.2 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)

Recommended Change Out Pressure:
35 psid (2.4 bar)

Max Reverse Pressure:
40 psid at 70°F (2.8 bar at 21°C)

Product Features

High Flow Series filters feature 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.

Advantages

- 6" diameter, large geometry for high flow rates
- Absolute retention ratings from 1 to 100 microns
- Capable of flow rates up to 500 GPM in a single 60" element
- Inside-out flow retains contaminant even during changeout
- Multi-layer pleated construction with optimized surface area
- Outer cage prevents media extrusion experienced with some competitive offerings
- Unique Quad Seal gasket provides maximum seal integrity
- Retrofits competitive high flow filter housings
- Thermally bonded construction

Certifications

- NSF 61: Certified to NSF/ANSI STD 61 for materials requirements only
- 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 behaviour and is suitable for contact with all kinds of foodstuffs with minimal rinse-up

NOMENCLATURE INFORMATION

Filter Type	Rentention Rating (microns)	Nominal Length (inches)	Gasket or O-Ring
GFHF	1 3 5 10 20 40 60 75 100	-20 -40 -60	B (Buna-N) E (EPDM) S (Silicone) T (Teflon gaskets) V (Viton)

Flow Information		
Filter Type	**Surface Area**	**Maximum Flow Rate**
20”	24 ft² (2.2 m²)	185 GPM (662 lpm)
40”	49 ft² (4.6 m²)	350 GPM (1325 lpm)
60”	73 ft² (6.8 m²)	500 GPM (1892 lpm)

High Flow Pressure Drop						
Micron Rating (µm)	**Pressure Drop psid/gpm**			**Pressure Drop Mbar/m³/hr**		
	20”	40”	60”	20”	40”	60”
1	0.0200	0.0097	0.0065	6.0845	2.9395	1.9820
3	0.0167	0.0081	0.0054	5.0705	2.4495	1.6516
5	0.0076	0.0037	0.0025	2.3179	1.1198	0.7550
10	0.0046	0.0022	0.0015	1.3908	0.6716	0.4530
20	0.0021	0.0010	0.0007	0.6374	0.3079	0.2076
40	0.0017	0.0008	0.006	0.5215	0.2520	0.1699
60	0.0015	0.0007	0.0005	0.4552	0.2199	0.1483
75	0.0012	0.0006	0.0004	0.3636	0.1815	0.1204
100	0.0010	0.0005	0.0003	0.3035	0.1466	0.0989

Removal Efficiency			
Micron Rating	**Beta 1000 99.9%**	**Beta 100 99%**	**Beta 10 90%**
1.0 µm	1.0	0.6	0.2
3.0 µm	3.0	2.0	1.5
5.0 µm	5.0	4.0	3.0
10 µm	10	8.5	6.5
20 µm	22	19	14
40 µm	38	18	15
60 µm	60	35	20
75 µm	75	48	35
100 µm	100	75	45

VYTAL
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