

VF Series Multi Pleat High Flow MPHF

Filters of Great Geometry, Quick Filtration

SERIE VFMPHFFG Fiberglass

Venefilter, has created this line of elements with filtering media of fiberglass, great geometry and high flow allowing to handle higher flow with fewer filter elements. This design achieves a much more fast filtration, with excellent particle retention and great time of element life. Excellent choice when looking to work high flow reducing upfront capital costs.

Features

- Materials of construction allow compatibility with some chemistries not served by all polypropylene elements.
- 6" diameter, large geometry for high flows.
- Absolute retention 99.95%, 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.
- Unique Quad Seal gasket provides maximum seal integrity.
- Thermally bonded construction.

Operating Conditions

Maximum operating temperature	Polyacetal hardware	70°F a 75 Psid (21 °C a 5.2 bar)
		230°F a 50 Psid (110 °C a 3.4 bar)
	polypropylene hardware	77°F a 50 Psid (25 °C a 3.4 bar)
		180°F a 20 Psid (82 °C a 1.4 bar)
Recommended change-out	35 Psid (2,4 bar)	
Maximum flow rate	60" element up to 500 GPM	
	40" element up to 350 GPM	
	20" element up to 175 GPM	

Design specifications

Media	Microfiberglass
End caps	Polyacetal or polypropylene
Cage	Polypropylene / Polyester
Outside diameter	6"
Surface area	24 ft ² (2,2 m ²) per 20" element
	49 ft ² (4,6 m ²) per 40" element
	73 ft ² (6,8 m ²) per 60" element



Applications

- Petrochemical Industry
- Process water
- Amines
- Biodiesel
- Chemicals
- Food and Beverage
- Fuels
- Oil and gas

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	10,45
4,5 micron	4,5	4,2	1
10 micron	10	5,5	3
20 micron	20	15	10

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Pressure drop

Pressure drop of the element Psid/gpm			
Microns	20"	40"	60"
1	0,0394	0,0197	0,0131
2.5	0,0183	0,0091	0,0061
4.5	0,0144	0,0072	0,0048
10	0,0095	0,0048	0,0032
20	0,0069	0,0035	0,0023

Part Number

VFMPHFFG	A	5	40	B
Series	Hardware Material	Microns	Length	O-Ring
VFMPHFFG	P: Polypropylene	1	20: 20"	Blank: None
	A: Polyacetal caps polyester cage	2.5	40: 40"	B: Buna-N
		10	60: 60"	E: EPR
		20		V: Viton
				S: Silicone

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