

VF Series Multi Pleat High Flow MPHF

Filters High Capacity and Long Lifespan

SERIES VFMPHF High Flow

Venefilter, has created this line of filtering elements of great geometry and high flow owing to its pleated construction and large area, 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. It is the perfect choice when searching to work large flows with greater practicality.

Features

- 6" diameter, large geometry for high flow rates.
- Absolute retention of 99.95%, 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 área.
- Unique Quad Seal gasket provides maximum seal integrity.
- Thermally bonded construction.

Operating Conditions

Maximum operating temperature	180 °F a 20 Psid (82 °C a 1,4 bar)
	160 °F a 30 Psid (71 °C a 2,1 bar)
	77 °F a 50 Psid (25 °C a 3,4 bar)
Recommended change-out	35 Psid (2,4 bar)
Maximum flow rate	Element 60" up 500 gpm
	Element 40" up 350 gpm
	Element 20" up 175 gpm

Design specifications

Media	Polypropylene
End caps	Polypropylene
Cage	Polypropylene
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

Area superficial



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
3 microns	3	2	1,5
5 microns	5	4	3
10 microns	10	8,5	6,5
20 microns	22	19	14
40 microns	38	18	15
60 microns	60	35	20
100 microns	100	75	45

Pressure drop

Pressure drop of the element (PP) Psid/gpm			
Microns	20"	40"	60"
1	0,0200	0,0097	0,0065
3	0,0167	0,0081	0,0054
5	0,0076	0,0037	0,0025
10	0,0046	0,0022	0,0015
20	0,0021	0,0010	0,0007
40	0,0017	0,0008	0,0006
60	0,0015	0,0007	0,0005
100	0,0010	0,0005	0,0003

Part Number

VFMPHF	5	40	B
Series	Microns	Nominal Length	Gasket
VFMPHF	1	20: 20"	Blank: None
	3	40: 40"	B: Buna-N
	5	60: 60"	E: EPR
	10		V: Viton
	20		S: Silicone
	40		
	60		
	100		

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