

# BorsoPleat-HF

## Pleated Depth Media or Final Polishing Filter

VAN BORSELEN FILTERS



**Van Borselen Filters High Flow filter cartridges are designed for applications requiring a very high flow rate. They are equally suitable for use as pre-filters or final polishing filters in applications that do not require membrane filtration. The use of a spacer mesh as an upstream pleat support means that fluid flow is uniform across the entire surface of the filter medium. The mesh holds the flow channels open thereby maximising dirt holding capacity and minimising pressure drop across the filter.**

Our filter cartridges are absolute rated, tested to Beta 5000 using the industry standard single pass OSU-F2 test procedure with ISO 12103 part 1 A2 Fine and A4 Coarse test dust as appropriate

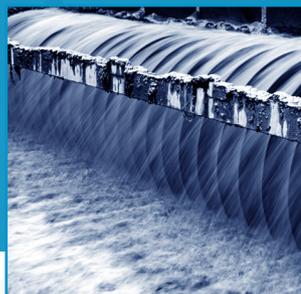
Manufactured in the UK from polypropylene or microfibre glass filter media and hardware, these filter cartridges have excellent chemical compatibility.

Thermal bonded construction eliminates the requirement for adhesives, maintaining product integrity in demanding applications & minimising the level of extractables in the filtrate. All the materials conform to the relevant requirements of FDA CFR21 part 177 and cartridges using polypropylene filter media meet the requirements for food contact as detailed in European Regulation 1935/2004.



### Features and Benefits

- Absolute micron ratings to ensure consistent, repeatable performance.
- Inside to out flow ensures that contamination is collected inside the filter cartridge, for easy disposal.
- Our BorsoPleat-HF filters meet the requirements for food contact as detailed in EC 1935/2004.
- Manufactured in the UK.
- Large surface area, typically 5 metres per 40", and pleat spacing mesh on the inner layer ensures low initial pressure drops and high dirt holding capacity, for extended service life.
- 100% Polypropylene construction (PP only) and thermal bonding mean wide chemical compatibility and a minimum level of extractables.
- Suitable for steam sterilisation, autoclaving and hot water sanitisation.
- Available in 20", 40" and 60" lengths to retrofit into most existing installations.



# Specification

## Materials of Manufacture

Filter medium : Polypropylene or glass fibre  
 Drainage layers : Polypropylene  
 Support mesh : Polypropylene  
 Outer core : Polypropylene  
 End caps : Polypropylene

## Cartridge Dimensions

Outside diameter : 154mm (6")  
 Inside diameter : 75mm (3")  
 Length : 508mm (20")  
           1016mm (40")  
           1524mm (60")

## Effective Filtration Area

Absolute Microbial Rating	Effective Filtration Area (each 1016mm (40") module)
0.45, 1, 5, 10, 25, 50 0.65 and 100µm	5m <sup>2</sup> (53.8ft <sup>2</sup> )

## Gaskets and O-Rings\*

EPDM, FEP encapsulated, Silicone, Viton® and Nitrile

## Maximum Differential Pressure

Normal Flow direction at:

20°C (68°F) : 3.5bar (51psi)  
 65°C (149°F) : 1.8bar (26psi)  
 80°C (176°F) : 1.0bar (15psi)

Reverse flow is not recommended

## Recommended Changeout Differential Pressure

20°C (68°F) : 1.5bar (22psi)

## Part Numbers

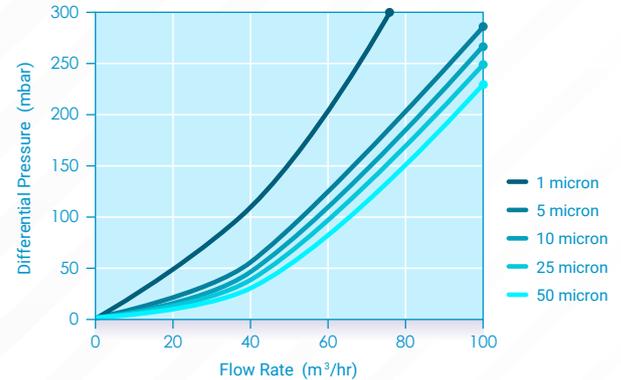
Code	Micron rating	Length	Filter media	Gasket	Options
BLHF	045 = 0.45 micron 01 = 1 micron 05 = 5 micron 10 = 10 micron 25 = 25 micron 50 = 50 micron 100 = 100 micron	20 inch 40 inch 60 inch	PP = Polypropylene GF = Glass fibre	E = EPDM N = Nitrile S = Silicone T = FEP V = Viton	

## Sanitisation

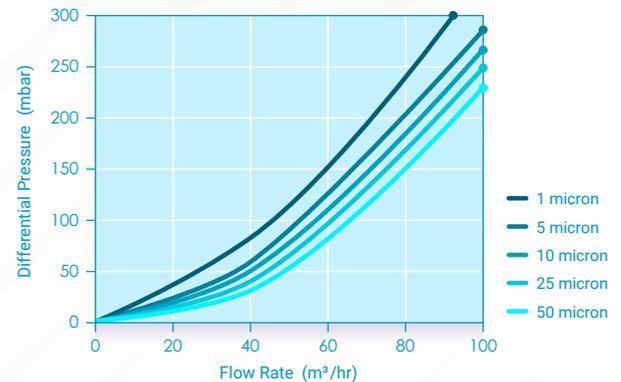
Steam or autoclave : 121°C (250°F) for 15 minutes  
 Hot water sanitisation : 90°C (194°F) for 30 minutes repeatedly

## Clean Water Flow Rates

Polypropylene Media :



Glass Fibre Media :



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