

## ClearPore High Flow Cartridge Filters

- Liquid Filter

- Pleated Depth

**UltraPore HFP** filter elements are designed for applications requiring very high flow rates & are suited equally as pre-filters or final polishing filters where membrane filtration is not required.

**UltraPore HFP** use a specially designed spacer layer on the upstream of the filter media which helps maintain an open flow path to the entire surface area. This maximises dirt holding capacity and minimises pressure drop across the filter.

Absolute micron ratings are tested to Beta 5000 using industry standard single pass OSU-F2 test procedure with ISO 12103 part 1 A2 fine and A4 coarse test dust as appropriate.

Polypropylene hardware combined with either polypropylene or glass fibre filtration media and thermal bonded construction ensures wide chemical compatibility, minimising extractables and ensuring product integrity in demanding applications.

Also available as an All Welded Stainless Steel option. No polymeric material or adhesives are involved in the construction (except the sealing o-ring). TIG Welded construction. Suitable for high temperatures and aggressive chemical applications.

HFP-PP cartridges have been independently tested for extractables and meet the requirements for food consumption regulation as detailed in EC 1935/2004 and incorporating 10/2011. Materials used are listed FDA CFR21 part 177.



Available in three hardware options as follows to suit varying levels of process conditions

- Polypropylene hardware with either pleated Glass Fibre or Polypropylene media
- Polypropylene endcaps with stainless steel cage with either pleated Glass Fibre or Polypropylene media
- All Welded Stainless Steel - steel endcaps, cage & media (either sintered fibre or sintered mesh)

# ClearPore High Flow Cartridge Filters

- Liquid Filter

- Pleated Depth

Also available as an All Welded Stainless Steel version with no use of glues or adhesives the AWSS version of the High Flow Pleat provides the solution to compatibility issues whilst maintaining excellent flow rates. Manufactured entirely out of 316L stainless steel (except for the sealing o-ring) they are especially suited to high temperature applications or where chemical compatibility is an issue with polypropylene.

### Materials of Constructions (AWSS version)

- Filtration Media Sintered steel mesh  
Sintered steel fibre
- Endcaps 316L stainless steel
- Cage 316L stainless steel
- Seals As standard version options
- Construction TIG Welded

### Recommended Operating Conditions

#### Operating Temperature

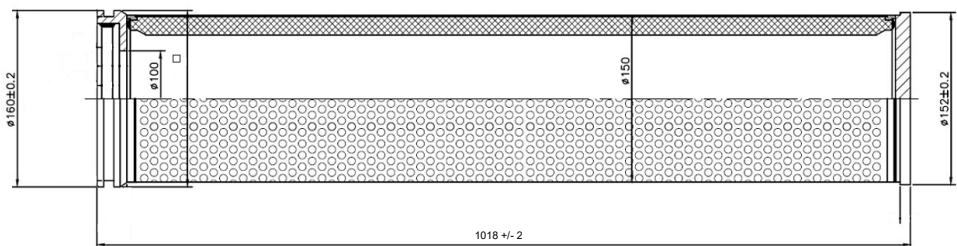
- -150°C to 300°C (seal material dependent)

#### Maximum Differential Pressure

- 3.0 barg

#### Recommended Changeout Pressure

- 1.5 barg



Designed to be dimensionally equivalent to the standard High Flow elements these AWSS HFP are designed to fit standard High Flow Housings.

### Micron Ratings Available

**SSF - Sintered Steel Fibre** (absolute rated) available in the following micron ratings

3, 5, 10, 15, 20, 30, 40, 60

**SSM- Sintered Steel Mesh** (nominally rated) available in the following micron ratings

3, 5, 10, 20, 40, 70, 100, 250, 450, 850

## ClearPore High Flow Cartridge Filters

- Liquid Filter

- Polypropylene

### Materials of Constructions (standard version)

- Filtration Media: Polypropylene, Glass Microfibre
- Support Layers: Polypropylene
- Endcaps: Polypropylene
- Cage: Polypropylene or steel
- Seals: Nitrile, EPDM, Silicon, Viton, PTFE

### Recommended Operating Conditions

#### Maximum Temperature

- 80°C (GF and PP media versions)

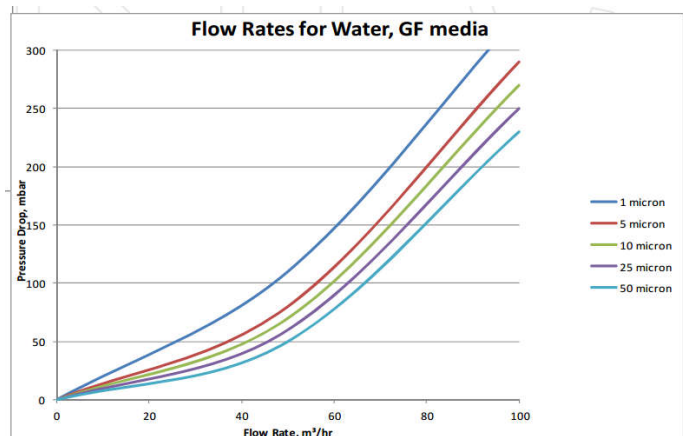
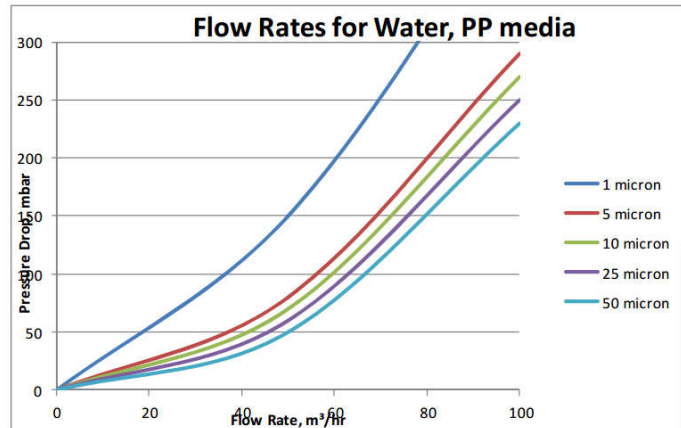
#### Maximum Differential Pressure

- 3.5 barg maximum @ 20°C
- 1.8 barg maximum @ 65°C
- 1.0 barg maximum @ 80°C
- 4.0 barg maximum @ 80°C with ss cage option

#### Recommended Changeout Pressure

- 1.5 barg @ 20°C

### Flow Rate v Pressure Drop



### Ordering Information

<b>HFP</b>					
<b>Micron Rating **</b>	<b>Length</b>	<b>Filter Media</b>	<b>Seal Material</b>	<b>Cage</b>	
045—0.45 01 - 1 05 - 5 10 - 10 25 - 25 50 - 50 100 - 100	20 40 60	PP - Polypropylene GF - Glass Fibre SSF - Steel fibre * SSM - Steel mesh *	E - EPDM N - Nitrile S - Silicon T - FEP V - Viton	Blank - PP S - 304ss	

\* coding for SSF or SSM will automatically denote All Welded Stainless Steel Version in 316L

\*\* For AWSS versions see previous page for micron rating availability