

# Hall Pyke



**Surface Pre Filtration**

## **Microfil™ GP**

**The SMART choice for filtration**

## Microfil™ GP

### Absolute Rated Pleated Glass Fibre Cartridge Filters

A range of absolute rated cartridge filters from Porvair Filtration Group, featuring the latest developments in borosilicate glass fibre filter media technology, Microfil™ GP cartridges are constructed from robust glass fibre and polypropylene filtration layers, offering removal ratings from 0.5 to 5 micron absolute.

### Features and Benefits

- **Guaranteed removal ratings**  
Microfil™ GP cartridges are validated using the recognised industry standard modified OSU-F2 single pass test to Beta 5000 (99.98% efficiency).

### Materials of Manufacture

Filter media:	Glass fibre	Outer support:	Polypropylene
Prefiltration layer:	Polypropylene	End fittings:	Polypropylene
Support layers:	Polypropylene	Support ring:	Stainless steel
Inner core:	Polypropylene		

### Gaskets and O-Rings

Ethylene Propylene, PTFE encapsulated, Silicone, Viton, Nitrile or Polypropylene felt.

### Maximum Differential Pressure

Normal flow direction at:  
20°C (68°F): 6.0 bar (87lb/in<sup>2</sup>)  
80°C (176°F): 4.0 bar (58lb/in<sup>2</sup>)  
100°C (212°F): 3.0 bar (43lb/in<sup>2</sup>)  
120°C (248°F): 2.0 bar (29lb/in<sup>2</sup>)

### Operating Temperature

Maximum continuous: 60°C (140°F)

### Integrity Testing

Microfil™ GP filter cartridges are batch tested for integrity using the Bubble Point Test. Procedural details are available from Porvair.



**Glass Fibre**

## Microfil™ GP continued...

### Applications

- **Foods and Beverages**
- **Process Water Systems**  
The filtration of process water installations for removal of general contamination and resin fines. The naturally occurring zeta-potential of glass fibre in aqueous solutions makes the Microfil™ GP filter ideal for removing submicronic particles.
- **Pharmaceuticals and Bioprocessing**  
The excellent dirt holding capacity of the Microfil™ GP makes it an ideal choice for prefiltration of complex biological fluids (e.g. cell culture media).
- **Fine Chemicals**  
The filtration of high grade chemicals including solvents, reagents, photographic emulsions, inks and paints.
- **Cosmetics**

### Effective Filtration Area

Absolute Removal Rating	Effective Filtration Area (each 254mm (10") module)
0.5, 0.8, 1.0, 2.0 and 5.0µm	0.4m <sup>2</sup> (4.4ft <sup>2</sup> )



### Product Attributes

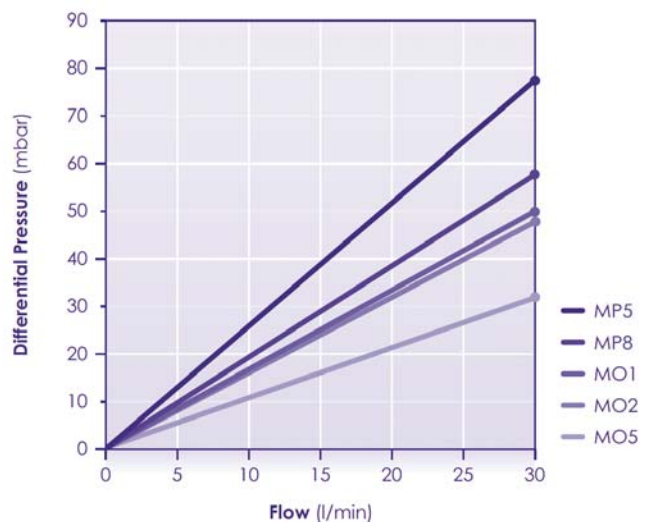
RR	0.5; 0.8; 1.0 and 5.0µ absolute Beta 5000
MT	60 °C
MoC	Borosilicate glass fibre media/polypropylene
MDP	6 bar @20 °C
SA	0.4m <sup>2</sup>
Brand	Porvair
Q	FDA 21CFR177-1520

### Features

### Flow Characteristics

#### Clean Water Flow Rates

- Typical clean water flow rate:  
A 254mm (10") Microfil™ GP single cartridge exhibits the flow-ΔP characteristics indicated below, for solutions with a viscosity of 1 centipoise.



# Hall Pyke



[www.hallpyke.ie](http://www.hallpyke.ie)

Head Office, 3A Sunbury Industrial Estate, Ballymount Road, Walkinstown, Dublin 12.  
T. +353-1-4501411 F. +353-1-4507960 E. [info@hallpyke.ie](mailto:info@hallpyke.ie) W. [www.hallpyke.ie](http://www.hallpyke.ie)