

# FulFlo® Glass-Mate™

Pleated Filter Cartridges



## Absolute, Economical Filtration with Pleated Microfibreglass Cartridges

Parker's Fulflo® Glass-Mate™ Cartridges offer an economical choice for absolute-rated efficiency, high flow rate capability and long service life. A wide variety of construction components, end fittings and seal options make this product line ideal for pre-filtration and point of use filtration for many industrial applications. Glass-Mate™ offers absolute rated media (99.98%;  $\beta = 5000$ ) for reliable pore size control.



### Applications:

- Chemical Processing
- Oilfield completion fluids
- Coatings
- Critical lubricating oils
- Power Generation
- Pharmaceutical Chemicals
- Membrane pre-filtration
- Food & Beverage: Wine clarification and Beer stabilisation, corn syrup

### Product Features:

- All FDA listed components biosafe per USP Class VI-121°C Plastic Tests allows filtration of edible and potable liquids
- Thermal bonding eliminates particle bypass
- Laminated media/support layer maximises flow capacity and media utilisation and minimises media migration
- Optional stainless steel O-ring adaptor inserts provide added stability for in-situ sterilisation
- High surface area yields high flow rate/low differential pressure capability
- Non-fibre-releasing media with minimal extractables provides high purity filtrate

# FulFlo® Glass-Mate™

## Specifications

### Filtration Rating

99.98% at specified micron rating

### Materials of Construction

See Table Below

### Maximum Operating Conditions

See Table Below

### Dimensions

OD: 68.6 mm  
ID: 25.4 mm

### Recommended Operating Conditions

Change-Out Pressure: 2.4 bar  
Flow Rate: 9.5 l/min per 10"

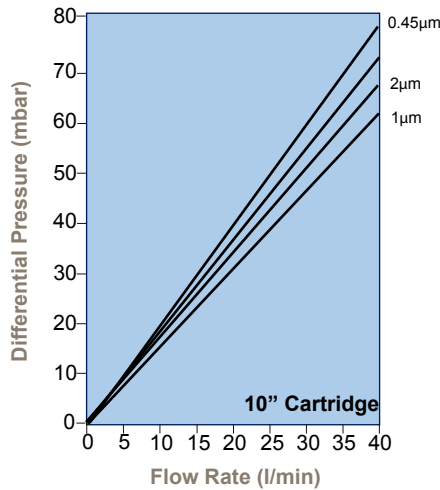
### Biological Safety/Product Purity

Meets USP XXIV Class VI safety requirements for plastics  
All components FDA listed per CFR Title 21  
Non-fibre releasing per FDA

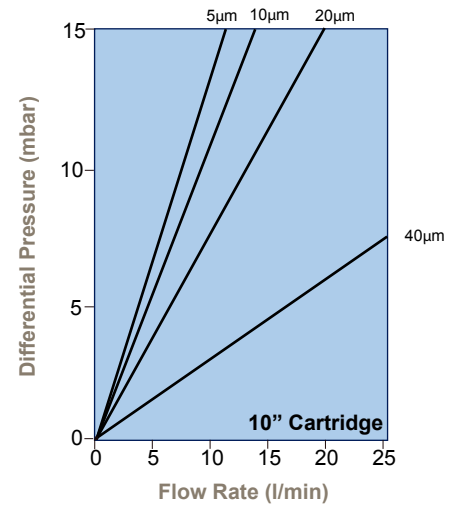
### Sterilisation/Sanitation (F Code Only)

Hot Water: 82°C for 30 min at 1 bar  
In-line Steam/Autoclave: 60 min at 140°C and 0.14 bar maximum pressure

Flow rate vs.  $\Delta P$   
(1 cps liquid @ 23°C)



Flow rate vs.  $\Delta P$   
(1 cps liquid @ 23°C)



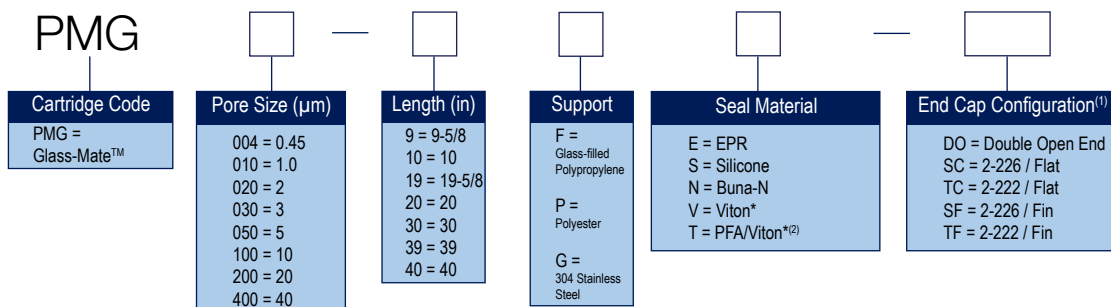
Cartridge Code	99.98%	99.9%	99%	95%	90%
PMG004	0.45	0.3	<0.1	<0.1	<0.1
PMG010	1.0	0.6	0.2	<0.1	<0.1
PMG020	2.0	1.2	0.4	0.2	0.1
PMG030	3.0	1.8	0.6	0.3	0.2
PMG050	5.0	3.0	1.3	0.5	0.4
PMG100	10	7.0	3.5	1.6	1.2
PMG200	20	16	8.0	4.0	2.5
PMG400	40	32	20	11	8.0

Glass-Mate Options	F	P	G
<b>Materials of Construction</b>			
<b>Filter Media</b>	Borosilicateglass fibre with acrylic binder		
<b>Support Layers</b>	Spunbonded Polyester, laminated on the downstream side		
<b>Core</b>	Glass-filled Polypropylene	Polyester	304 Stainless Steel
<b>Cage</b>	Polypropylene	Polyester (netting)	Polyester (netting)
<b>End Caps</b>	Polypropylene	Polyester	304 Stainless Steel (DOE Only)
<b>Adhesive</b>	FDA Polypropylene hot melt	FDA Polyester hot melt	FDA white Urethane hot melt
<b>Maximum Recommended Operating Conditions</b>			
<b>Temperature</b>	93°C at 2.4 bar	60°C at 2.4 bar	135°C at 2.4 bar
<b>Pressure</b>	6.2 bar at 24°C	4.8 bar at 24°C	5.1 bar at 135°C

### Flow Factor Table\*\*

Glass-Mate	0.45µm	1µm	2µm	3µm	5µm	10µm	20µm	40µm
Flow factor (mbar / l/min @ 1cks)	1.9678	1.8584	1.7309	1.6398	1.3118	1.0932	0.7652	0.3280

## Ordering Information:



1 - More options available, please consult with manufacturing

2 - O-Rings Only

\* - Trademark of E.I. duPont de Nemours & Co.

\*\* - Flow factor required for sizing. Refer to page 62 for further information



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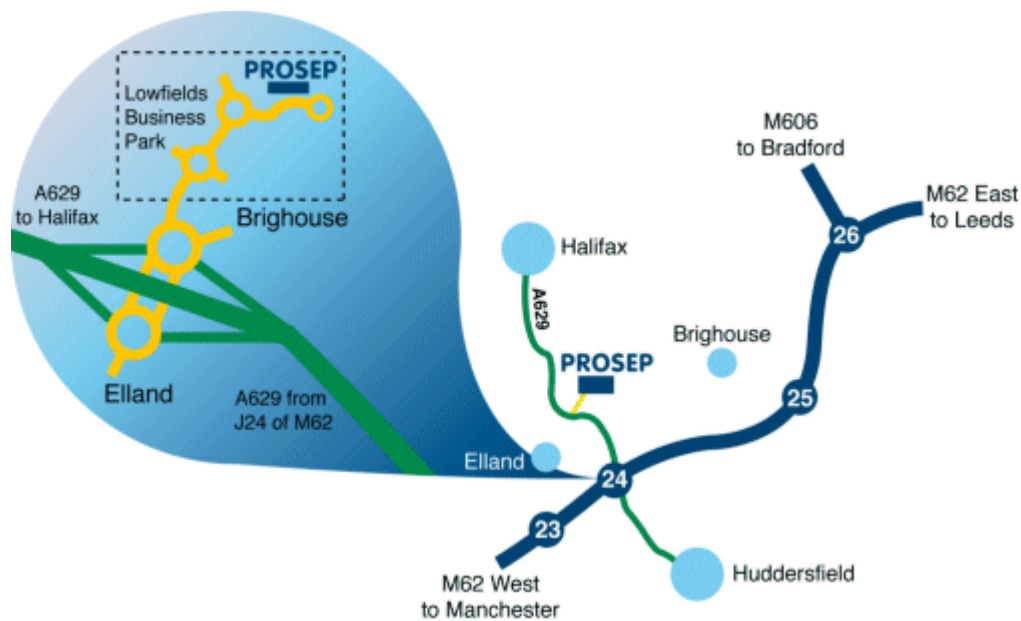
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**Map and Directions to Prosep Filters Limited**



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)