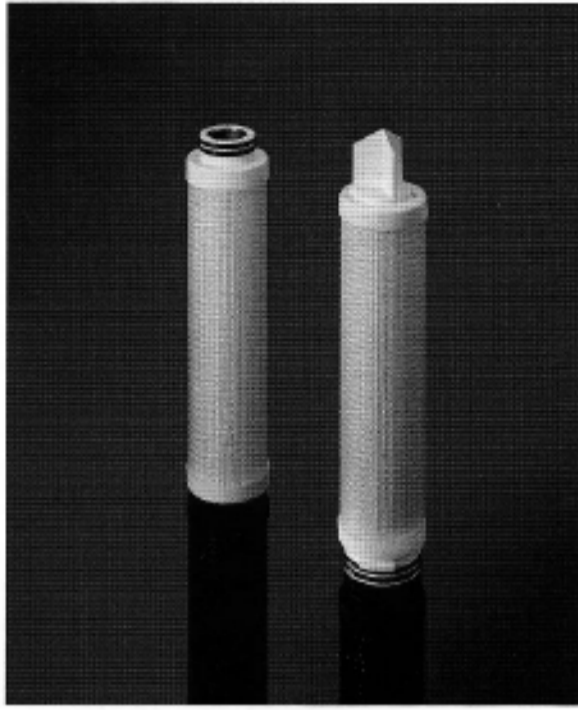




GLASS-MATE™ PMG FILTER CARTRIDGE

Absolute and economical filtration with pleated microfiberglass cartridges



Parker's 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 prefiltration and point-of-use filtration for many food and beverage applications.

BENEFITS

- Absolute-rated media provides reliable removal efficiency
- Thermal bonding eliminates particle bypass
- Laminated media/support layer maximizes flow capacity and media utilization and minimizes media migration
- Variety of construction/seal options for increased compatibility
- End fitting options provide competitive housing retrofit capability
- All FDA listed components biosafe per USP Class V1-121°C Plastic Tests allows filtration of edible and potable liquids
- Optional stainless steel O-ring adapter inserts provide added stability for in situ sterilization
- High surface area yields high flow rate, low differential pressure
- Non-fiber-releasing media with minimal extractables provides high purity filtrate

APPLICATIONS

- Beer stabilization
- Wine clarification
- Food & Beverage
- R.O. prefiltration
- Coatings
- Sterile air
- Corn syrup

SPECIFICATIONS

Materials of Construction:

Filter Medium	Borosilicate microfiberglass with acrylic binder
Support/Drainage Layers	Spunbonded polyester; laminated on the downstream side

Recommended Operating Conditions:

Maximum Temperatures	
Glass Filled Polypropylene	200°F @ 35ΔP (93°C/2.4 bar)
Polyester	140°F @ 35ΔP (60°C/2.4 bar)
Stainless Steel	275°F @ 35ΔP (135°C/2.4 bar)
Changeout Differential Pressure	35 psi (2.4 bar)
Maximum Flow Rate	10 gpm per 10 in length (38 lpm/254 mm)
Design Flow Rate	2.5 gpm per 10 in length (9.5 lpm/254 mm)

Effective Filtration Area:

5 ft²/10 in (0.46 m²/254 mm) minimum

Maximum Differential Pressure:

Glass-Filled Polypropylene	90 psi @ 75°F (6.2 bar/24°C)
Polyester	70 psi @ 75°F (4.8 bar/24°C)

Biological Safety/Product Purity:

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

Sterilization/Sanitization:

Hot water ("F" construction): 180°F (82°C) for 30 minutes at maximum 15 psid (1 bar).
 In-Line Steam/Autoclave ("F" construction with stainless steel sleeve) 60 minutes at 255°F (140°C) at 2 psid (0.14 bar) maximum pressure.

GLASS-MATE™ PMG FILTER CARTRIDGE

Absolute and economical filtration with pleated microfiberglass cartridges

Glass-Mate™ Cartridge Flow Factors

Rating (µm)	Flow Factor
0.45	.108
1	.102
2	.095
3	.090
5	.072
10	.060
20	.042
40	.018

Flow Rate and Pressure Drop Formulae:

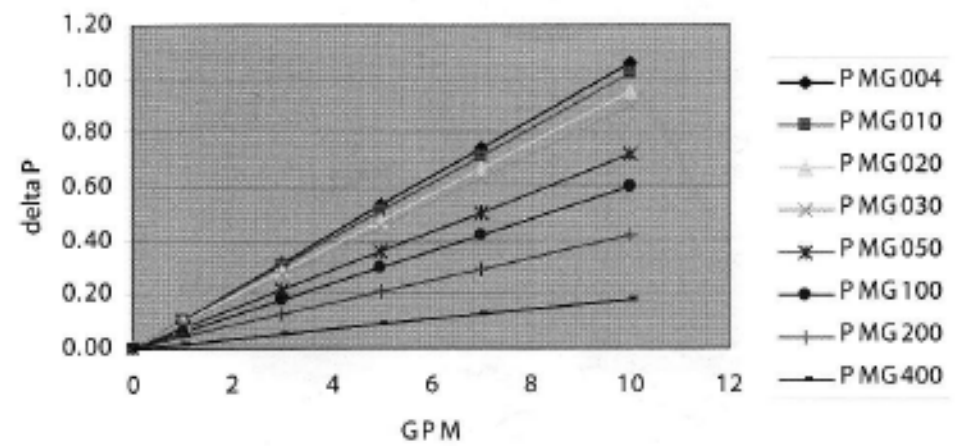
$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

$$\text{Clean } \Delta P = \frac{\text{FlowRate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

Notes:

1. Clean ΔP is PSI differential at start.
2. Viscosity is centistokes. Use Conversion Tables for other units.
3. Flow Factor is $\Delta P/GPM$ at 1cks for 10 inch (or single).
4. Length Factors convert flow or ΔP from 10 inch (single length) to required cartridge length.

Glass-Mate Flow vs. dP



ORDERING INFORMATION

PMG

Particle Removal Rating	
CODE	(µm)
002	0.2
004	0.45
010	1.0
020	2.0
050	5.0
100	10
200	20
400	40

Nominal Length	
CODE	LENGTH (mm)
9	9 5/8" (244)
10	9 13/16" (249)
19	19 5/8" (498)
20	19 15/16" (506)
29	29 1/4" (743)
30	30 1/16" (764)
39	39" (991)
40	40" (1016)

Support Construction	
CODE	DESCRIPTION
F	Glass Filled Polypropylene (core only)
P	Polyester

Seal Material	
CODE	DESCRIPTION
A	Polyethylene Foam (DOE Gasket Only)
E	EPR
N	Buna-N
S	Silicone
V	Viton®
X	No Seal Material

End Cap Configuration	
CODE	DESCRIPTION
AR	020 O-ring/Recessed Cap
DO	Double Open End (DOE)
DX	DOE With Core Extender
LL**	120 O-ring/Recessed Cap
LR**	120 O-ring/Recessed Cap
OB	Std. open end / Polypro Spring Closed End
PR**	213 O-ring/Recessed Cap
SC	226 O-ring/Flat Cap
SF	226 O-ring/Fin
TC	222 O-ring/Flat Cap
TF	222 O-ring/Fin
TX	222 O-ring/Flex Fin
XB	Ext. core open end/ Polypro Spring Closed End
SSC	S.S. Inserted 226 O-ring/Closed
SSF	S.S. Inserted 226 O-ring/Fin
STC	S.S. Inserted 222 O-ring/Closed
STF	S.S. Inserted 222 O-ring/Fin

Special Options	
CODE	DESCRIPTION
Z6	Individual Poly Bag only
Z15	Individual Poly Bag 15/ctn. (20", 30", 40") (PXD only)
Z30	Individual Poly bag 30/ctn. (10")

** Available only in 9 5/8" (-9) and 19 5/8" (-19 lengths)

TECHNICAL SUPPORT AND PRODUCT INFORMATION

Parker provides our customers with unsurpassed product consistency and cost-efficiency. Our experienced professionals can help you select the right solution for your application. Orders can be emailed directly to PAFsales@parker.com. For additional information contact your local distributor. Information on product specifications, applications and chemical compatibility can be found on our web site at www.parker.com or through the Oxnard office.

Parker designs and manufactures an extensive line of innovative solutions for specific applications in the Microelectronics, Biopharmaceutical, Food and Beverage, Industrial and Chemical industries.

DISTRIBUTED BY:

FISCHER-ROBERTSON, INC.

3890 Symmes Rd. Hamilton, Ohio 45015 USA
 p: 513-860-3445 f: 513-860-4744
www.fischer-robertson.com
sales@fischer-robertson.com

Specifications are subject to change without notification.
 Glas-Mate™ is a trademark of Parker Hannifin Corporation.
 Viton® is a registered trademark of E.I. DuPont de Nemours & Co., Inc.
 © 2007 Parker Hannifin Corporation.

