Glass-PLEAT G & Fiber-MAXX G

Nominally Rated Microglass Depth

- ▶ INKS AND COATINGS
- ▶ PLATING SOLUTIONS
- ▶ SOLVENT FILTRATION
- ▶ WASTE WATER
- ▶ CHEMICAL PROCESSING
- ▶ PHOTOGRAPHIC FILMS
- ▶ OIL AND GAS PRODUCTION

ORDER GUIDE

GPG / FMXG	0.2	–	10	PP	C3	S	1	DIF	GPG0.2-10PPC3S1DIF
	MICRON RATING		CARTRIDGE LENGTH	PLEAT SUPPORT	END CAP CONFIGURATION	GASKET / O-RING MATERIALS	CARTRIDGE GRADE	CARTRIDGE OPTIONS	

Strainrite's Nominally Rated Microglass Depth Filter Cartridges utilize a high surface area and high void volume media, incorporating microglass fibers in a uniform matrix that optimizes element flow rate and service life unattainable by other traditional microfiber technologies. This revolutionary microfiber matrix optimizes pore size geometry required to offer beta rated filtration performance.

Strainrite's non-calendared microglass cartridges exhibit significantly reduced resistance to flow when compared to similarly rated microfiber technologies. These cartridges are an excellent choice for filtering beverages such as beer and wine, as they do not remove flavor-enhancing proteins.

Our FDA grade cartridges meet or exceed the requirements of the 21 CFR 177 for food and beverage contact. Strainrite also offers elements that utilize an epoxy binder providing an increased range of applications where chemical compatibility is critical.

The Fiber-MAXX G now offers a Special Pleat option which provides expected surface area improvements of as much as 45% in General and Pharmaceutical grades. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.

- ▶ BETA-RATED MEDIA PROVIDE RELIABLE PORE SIZE CONTROL RESULTING IN REPEATABLE FILTRATION PERFORMANCE
- ▶ NON-FIBER RELEASING MATERIALS WITH MINIMAL EXTRACTABLES PROVIDE HIGH PURITY FILTRATE
- ▶ LOW PRESSURE DROPS YIELD HIGHER FLOW RATES AND REDUCED PROCESSING TIME
- ▶ MAXIMIZED PLEAT DESIGN COUPLED WITH NON-CALENDARED MICRO-GLASS MATRIX OFFERS GREATER SURFACE AREA, ENSURING LONGER SERVICE LIFE, LESS DOWNTIME AND REDUCED COSTS
- ▶ INDUSTRIAL GRADE UTILIZES AN EPOXY BINDER, FDA GRADE UTILIZES AN ACRYLIC BINDER
- ▶ THERMALLY BONDED CONSTRUCTION ELIMINATES PARTICLE BYPASS

SPECIAL PLEAT OPTION:

- ▶ OPTIMIZED PLEAT GEOMETRY
- ▶ EXPECTED SURFACE AREA IMPROVEMENTS OF AS MUCH AS 45% IN GENERAL AND PHARMACEUTICAL GRADES

NEED A VESSEL FOR YOUR CARTRIDGES?

For the Glass-Pleat G and Fiber-MAXX G, the following vessel types are most commonly used:

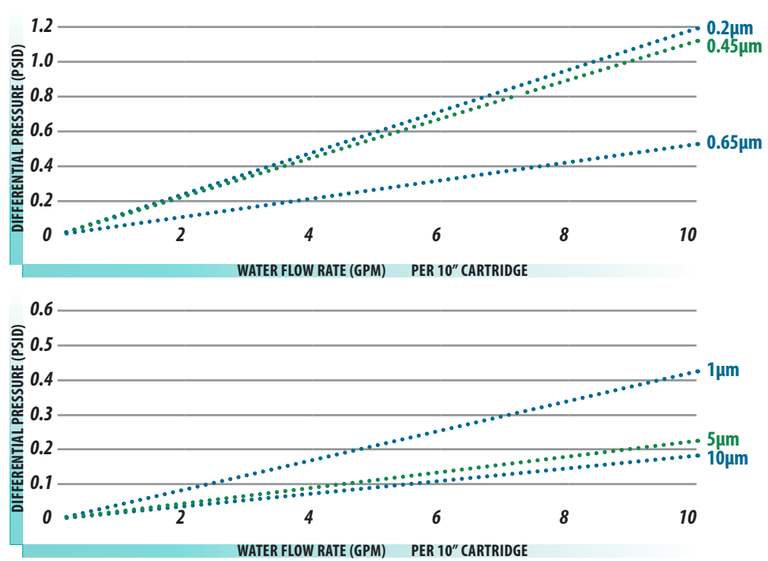
SRC—PAGE 128 SRVC—PAGE 130

As always, discuss your options with your local sales representative to find the best fit for your application.

RETENTION RATING	
0.2, 0.45, 0.65, 1, 5, 10	
MAXIMUM DIFFERENTIAL PRESSURE	
Forward: 75 psid (5.1 bar) @ 75°F (24°C) 40 psid (2.8 bar) @ 180°F (82°C)	
MAXIMUM OPERATING TEMPERATURE	
180°F (82°C) Continuous Duty Polypropylene	275°F (135°C) Continuous Duty Polyester
TOXICITY	
All components meet all relevant USP XXII Class VI test for biological safety and FDA requirements for contact with food and beverage per 21CFR177.1520	
PACKAGING ECONOMY	
Bulk packaging in case quantities to reduce material disposal: 5 inch - 48 per carton | 10 inch - 24 per carton | 20 inch - 12 per carton | 30 inch - 12 per carton | 40 inch - 9 per carton	

FILTER MEDIA	END CAPS	PLEAT SUPPORT MATERIAL	CAGE/CORE
Borosilicate Microglass	Polypropylene Polyester	Polypropylene Polyester	Polypropylene Polyester

SEALS	
Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Fluorocarbon | FEP Encapsulated Silicone | PTFE Foam | PTFE Hard	
CONSTRUCTION METHOD	**OUTSIDE DIAMETER**
Thermal Bond	GPG: 2.55" (6.48cm) | FMXG: 2.7" (6.87cm)
LENGTHS	
5 inch (12.7 cm) | 10 inch (25.4 cm) | 20 inch (50.8 cm) | 30 inch (76.2 cm) | 40 inch (102 cm)	
EFFICIENCY	
GPG0.2/FMXG0.2 — BETA5000 @ 0.2µm GPG0.45/FMXG0.45 — BETA5000 @ 0.45µm GPG0.65/FMXG0.65 — BETA5000 @ 0.65µm	GPG1/FMXG1 — BETA5000 @ 1µm GPG5/FMXG5 — BETA5000 @ 5µm GPG10/FMXG10 — BETA5000 @ 10µm
PERFORMANCE CHARACTERISTICS	



ORDER OPTIONS

CARTRIDGE

GPG	Glass-Pleat (2.55")
FMXG	Fiber-MAXX (2.7")

MICRON RATINGS

0.2, 0.45, 0.65, 1, 5, 10

CARTRIDGE LENGTH

5, 10, 20, 30, 40

PLEAT SUPPORT

PP	Polypropylene
PE	Polyester

END CAP CONFIGURATIONS

C1	Double Open Ends
C2	213/Recessed Cup
C3	Flat/222
C4	Single Open End/Flat
C5	Recessed Cup/222
C6	Flat/226
C7	Fin/226
C8	Fin/222

GASKET / O-RING MATERIAL

S	Silicone
B	Buna N
V	Fluorocarbon
E	EPDM
TF	PTFE Foam
TH	PTFE Hard
TV	Encapsulated Fluorocarbon
TS	Encapsulated Silicone

CARTRIDGE GRADE

-	General
1	FDA Grade
2	Pharmaceutical

CARTRIDGE OPTIONS

I	316 SS Insert
DIF	DI Flush
APH	All Polyester Hardware

SPECIAL PLEAT OPTION

SP	Special Pleat (FMXG only) Not available in FDA grade