



PREPOR GF Filters

- liquid filters
- glass microfibre

PREPOR GF liquid filter cartridges are utilized for the clarification of aqueous solutions, media and biologicals.

These filters have a high dirt holding capacity and exhibit exceptional flow performance compared to polypropylene filters. The hydrophilic nature of PREPOR GF filter cartridges also makes them more suitable for gravity fed systems.

PREPOR GF utilizes a glass microfibre filter medium encased within an upstream polypropylene mesh and a downstream non-woven filter support material. PREPOR GF filter cartridges are dimensionally stable with no media migration. The pleat pack is supported by an inner polypropylene core and outer polypropylene cage, heat bonded to polypropylene end caps.

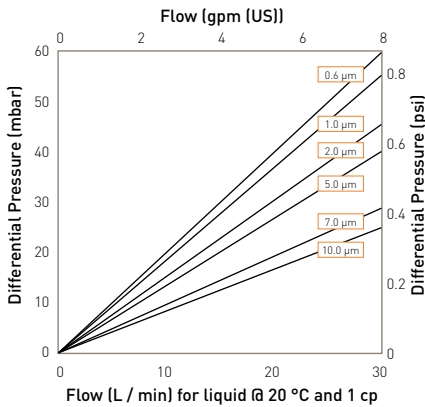
Features and Benefits

- Micron rating range from 0.6 to 10 micron
- Wide range of end caps to allow retrofitting of existing systems
- High filtration area
- High capacity filter media
- Heat bonded construction



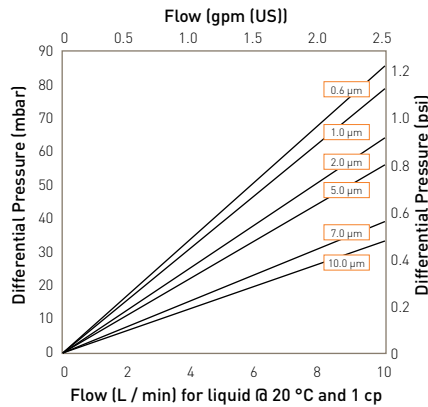
Note: PREPOR is a registered trademark of Parker Hannifin Corporation.

Performance Characteristics



For K size for a given flow rate multiply 10" size differential pressure by 2

10" Size (250 mm) Cartridge



For A size for a given flow rate divide B size differential pressure by 2
For E size for a given flow rate multiply B size differential pressure by 2

B Size (65 mm) Cartridge

Specifications

Materials of Construction

- Filtration Membrane: Glass Microfibre
- Upstream Support: Polypropylene
- Downstream Support: Polypropylene
- Inner Support Core: Polypropylene
- Outer Protection Cage: Polypropylene
- End Caps: Polypropylene
- End Cap Insert (if applicable): 316L Stainless Steel*
*Not available in B & L endcap variants
- Standard o-rings/gaskets: Silicone / EPDM

Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

Recommended Operating Conditions

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperature		Max. Forward dP	
°C	°F	(bar)	(psi)
20	68	5.0	72.5
40	104	4.0	58.0
60	140	3.0	43.5
80	176	2.0	29.0
90	194	1.0	14.5
>100 (steam)	>212 (steam)	0.3	4.0

Effective Filtration Area (EFA)

10" (250 mm) Up to 0.6 m² (6.3 ft²)

Cleaning and Sterilization

PREPOR GF cartridges can be repeatedly steam sterilized in situ or autoclaved at up to 121 °C (249.8 °F). They can be sanitized with hot water at up to 90 °C (194 °F) and are compatible with a wide range of chemicals.

Retention Characteristics

The retention characteristics of PREPOR GF have been determined through controlled laboratory tests challenging with a standard aqueous suspension of ACFTD (AC Fine Test Dust) using on-line laser particle counters.

Efficiency	Micron Rating at Various Efficiencies					
	>99.99% β Ratio	99.98%	99.90%	99%	95%	90%
0.6 & 0.8 µm	0.60	0.50	0.46	0.33	0.25	0.22
1.0 & 1.5 µm	1.0	0.80	0.60	0.52	0.42	0.35
2.0 µm	1.5	1.2	0.93	0.77	0.63	0.47
5.0 µm	2.0	1.6	1.5	1.2	0.82	0.73
7.0 µm	5.0	4.3	3.6	2.9	2.3	2.0
10.0 µm	10.0	9.2	7.9	5.9	4.4	4.0

Ordering Information

Cartridges

ZCGF [] - [] [] - [] []

Code Length (Nominal)	Code Micron	Code Endcap (10")	Code Variant	Code O-rings
B* 2.5" (65 mm)	.60 0.6 µm	B* dh DOE	S* Steam Sterilizable	E EPDM
A* 5" (125 mm)	.80 0.8 µm	C BF / 226 Bayonet	/ None	P PTFE Encapsulated Silicone
K 5" (125 mm)	1.0 1.0 µm	D Fin / 222		S* Silicone
1 10" (250 mm)	1.5 1.5 µm	E Flat Top / 222		V Viton
2 20" (500 mm)	002 2.0 µm	G Recess / 222		
3 30" (750 mm)	005 5.0 µm	H UF Retrofit		
4 40" (1000 mm)	007 7.0 µm	J SOE (no o-ring)		
	010 10.0 µm	L* dh DOE		
		N Internal 213		
		R BF / 222 Bayonet		
		Code Endcap (Demi)		
		SK Retrofit		
		T TRUESEAL		
		Y Demi Stub		
		Z Demi A & B Std		

* Supplied in packs of 3.

* For detailed operational procedures and advice on cleaning and sterilization, please contact the Technical Support Group through your usual Parker-donnick hunter contact.

* Silicone o-ring supplied as standard without having to specify the "S" code.

* EPDM gaskets supplied as standard