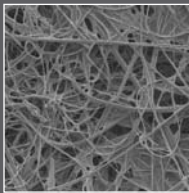


PREPOR GF



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

PREPOR GF liquid filter cartridges are utilised for the clarification, stabilisation and bioburden reduction 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 utilises 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.

available formats



Technical 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
Endcap Insert	:	316 Stainless Steel
Standard o-rings/gaskets	:	Silicone / EPDM
Capsule Body	:	Polypropylene
Capsule Vent Seals	:	Silicone
Filling Bell	:	Polycarbonate
Syringe Filter Body	:	Polypropylene

Food and Biological Safety

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

Effective Filtration Area

Up to 0.6 m² (6.3 ft²) per 250 mm (10" module).

Retention Characteristics

The retention characteristics of PREPOR GF have been determined through controlled laboratory tests challenging with a standard aqueous suspension of ACFTD

Approx micron ratings at given removal efficiencies and B ratios						
Efficiency	>99.99%	99.98%	99.90%	99%	95%	90%
B ratio	10000	5000	1000	100	20	10
B	0.60	0.50	0.46	0.33	0.25	0.22
D	1.0	0.80	0.60	0.52	0.42	0.35
E	1.5	1.2	0.93	0.77	0.63	0.47
F	2.0	1.6	1.5	1.2	0.82	0.73
H	5.0	4.3	3.6	2.9	2.3	2.0
K	10	9.2	7.9	5.9	4.4	4.0

(AC Fine Test Dust) using on-line laser particle counters.

Recommended Operating Conditions

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

Temperature		Maximum Forward dP	
°C	°F	(bar)	(psi)
20	68	5.0	73
40	104	4.0	58
60	140	3.0	44
80	176	2.0	29
90	194	1.0	15
>100 (steam)	>212 (steam)	0.3	4

Capsules may be operated up to a temperature of 40°C (104°F) at line pressures up to 5.0 bar (73 psig) for liquids and 4.0 bar (58 psi) in air/gas.

Cleaning and Sterilisation

BEVFOR PS cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 121°C (250°F). They can be sanitised with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals. Capsules can be repeatedly autoclaved up to 121°C (250°F).

For detailed operational procedures and advice on cleaning and sterilisation, please contact the Technical Support Group through your usual domnick hunter contact.

Recommended Rinse Volume

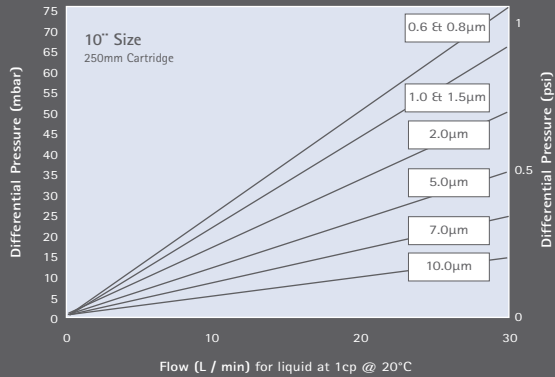
Prior to use - 20 litres per 10" cartridge.

Pharmaceutical Validation

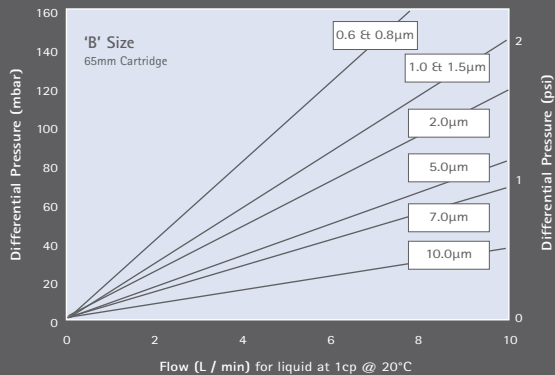
A full validation guide is available upon request with Lab Services Group (LSG) support for specific individual requirements.

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Cartridge Flow Rates

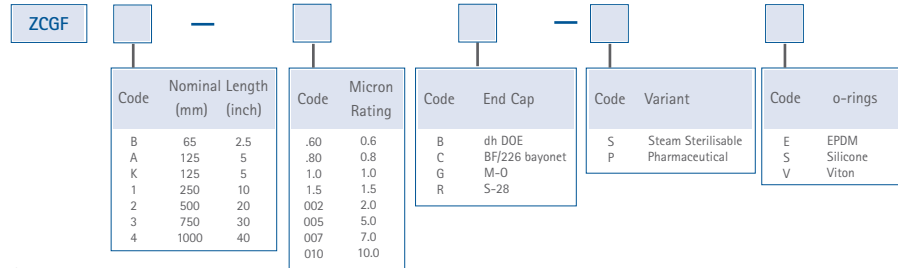


For K size for a given flow rate multiply 10" size differential pressure by 2

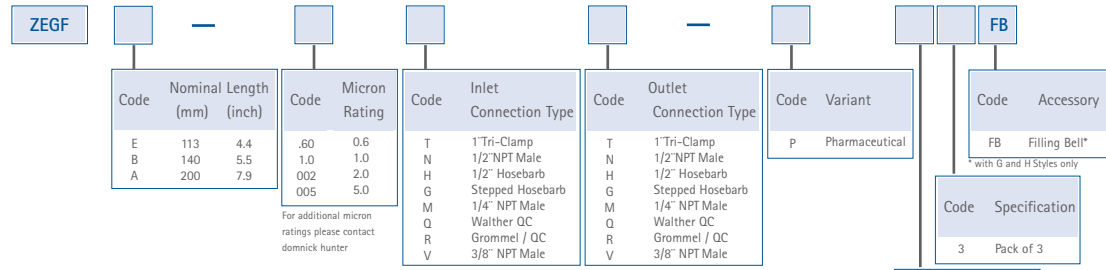


For A size for a given flow rate divide B size differential pressure by 2
For E size for a given flow rate divide B size differential pressure by 2

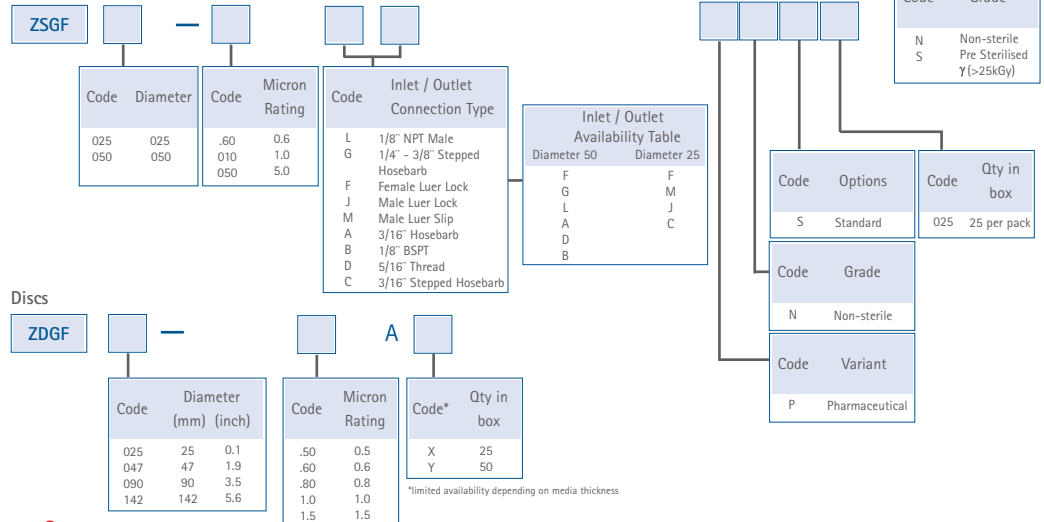
Cartridges



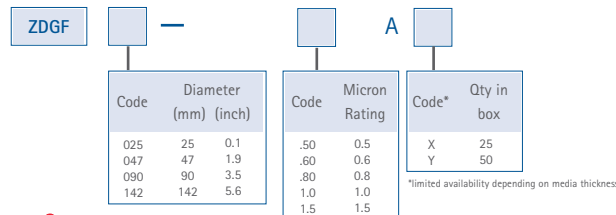
Capsules



Syringe Filters



Discs



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