

PREPOR GP is a new prefilter that combines the strength of polypropylene with the microbial retention of glass fibre for

high differential pressures or aggressive chemicals.

demanding applications such as long term exposure to steam,

The combined media will also provide a significant microbial reduction that makes PREPOR GP equally suitable for bioburden reductions in pharmaceutical liquids as well as offering excellent protection to sterilizing grade membrane cartridges. By using graded density media, PREPOR GP has a higher voids volume (95%) and greater dirt holding capacity than surface filtration membranes which means that filtration costs are reduced without affecting the product quality. PREPOR GP can also provide excellent prefiltration to membrane filters in proteinaceous and high contamination applications by extending the life of the membrane cartridge and hence reducing filtration costs.

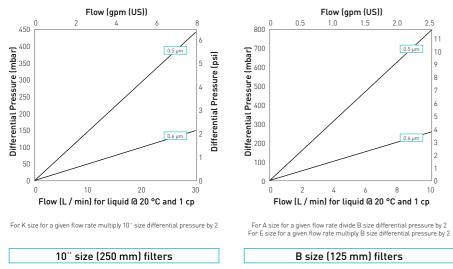
Features and Benefits

- Combined media for microbial retention and mechanical strength
- Graded density media gives increased dirt holding capacity
- Suitable for bioburden reduction and fine prefiltration
- Pleated construction with rigid core and sleeve



Note: PREPOR is a registered trademark of Parker domnick hunter

Performance Characteristics



PREPOR GP Filter Cartridges

liquid filters

glass microfibre / polypropylene

Specifications

Materials of Construction

Filtration Media: Glass Microfibre /

- Polypropylene 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 Polypropylene
- Capsule Body:
- Capsule Vent Seals: Silicone

Food and Biological Safety

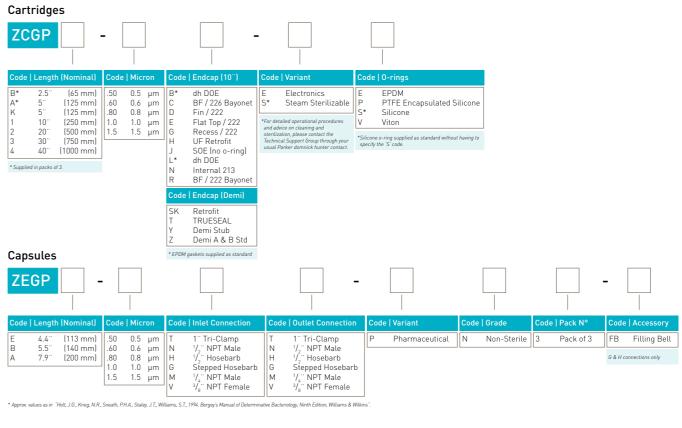
Materials conform to the relevant requirements of 21CFR Part 177, EC1935 / 2004 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

Recommended Operating Conditions

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

Temp °C	erature °F	Max. For (bar)	ward dP (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

Ordering Information



Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to conta our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's Standard conditions of sale.

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Capsules may be operated up to a temperature of 40 °C (104 °F) at line pressures up to 5.0 barg (72.51 psig) for

Effective Filtration Area (EFA)

Up to 0.37 m² (3.9 ft²)

Cleaning and Sterilization

liquids.

10" (250 mm)

130 °C (266 °F).

PREPOR GP 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. Capsules can be repeatedly autoclaved up to

Retention Characteristics

The retention characteristics of PREPOR GP have been determined by a combination of controlled laboratory tests and in-use monitoring for a number of organisms. Bacterial challenge testing is carried out to methods specified in ASTM F838-05.

Organism	Approx. Cell	Typical Titre Reduction			
	Size (µm)*	0.5	0.6	1.0	1.5
Serratia marcescens	0.5 - 0.8 x 0.9 - 2.0	104	10 ³	-	-
Oenococcus oenos	0.5 - 0.7 x 0.7 - 1.2	104	10 ³	-	-
Escherichia coli	1.1 - 1.5 x 2.0 - 6.0	104	10 ³	-	-
Saccharomyces cerevisiae	1.0 (spherical buds)	107	104	104	10 ³