



PREPOR PP Filter Cartridges

- liquid filters
- polypropylene

PREPOR PP filter cartridges will significantly reduce numbers of yeast and spoilage organisms from beverage products, to provide extremely cost effective microbial stabilization.

The cartridges will also 'condition' liquids and can be used to improve the filterability of products prior to terminal stabilization by thermal or filtrative methods.

The filters will withstand harsh operational conditions and repeated cleaning, making them ideal for extended use in the bulk conditioning of products prior to membrane 'sterilization' and pasteurization. Their mechanical strength and wide chemical resistance also make them suitable for long-term contact with strong cleaning agents and detergents.

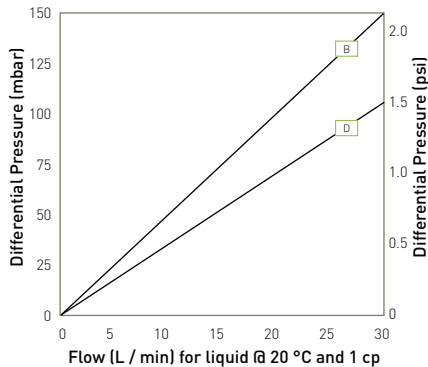
Features and Benefits

- Yeast and bacterial reduction to provide short term microbial stability
- Adjustment of filterability of bulk liquids after tank storage or transport
- Fine clarification to provide bright finished product
- Prolonged contact with hot water, steam and chemicals
- Prefiltration duty to extend the lifetime of downstream microporous filters



Note: PREPOR is a registered trademark of Parker domnick hunter

Performance Characteristics



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

10" Size (250 mm) Cartridge

Specifications

Materials of Construction

- Filtration Media: 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
- Capsule Body: Polypropylene
- 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:

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

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 liquids.

Effective Filtration Area (EFA)

10" (250 mm) Up to 0.5 m² (5.38 ft²)

Cleaning and Sterilization

PREPOR PP cartridges can be repeatedly steam sterilized in situ or autoclaved at up to 135 °C (275 °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 135 °C (275 °F).

Retention Characteristics

The retention characteristics of PREPOR PP 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 Size (µm)*	Typical Titre Reduction	
		B	D
<i>Serratia marcescens</i>	0.5 - 0.8 x 0.9 - 2.0	10 ⁶	-
<i>Stenococcus oenos</i>	0.5 - 0.7 x 0.7 - 1.2	10 ⁶	-
<i>Escherichia coli</i>	1.1 - 1.5 x 2.0 - 6.0	10 ⁶	-
<i>Saccharomyces cerevisiae</i>	1.0 (spherical buds)	10 ⁴	10 ²

Ordering Information

Cartridges



Code Length (Nominal)	Retention Rating	Code Flush	Code Endcap (10")	Code Format	Code O-rings
B* 2.5" (65 mm)	B	N None	B* dh DOE	A 10" Modular	E EPDM
A* 5" (125 mm)	D	For detailed operational procedures and advice on cleaning and sterilization, please contact the Technical Support Group through your usual Parker dominick hunter contact.	C BF / 226 Bayonet	D Demi	S Silicone
K 5" (125 mm)			D Fin / 222		
1 10" (250 mm)			E Flat Top / 222		
2 20" (500 mm)			G Recess / 222		
3 30" (750 mm)			H UF Retrofit		
4 40" (1000 mm)			J SOE (no o-ring)		
			L* dh DOE		
			N Internal 213		
		R BF / 222 Bayonet			

* Supplied in packs of 3.

Code | Endcap (Demi)

SK	Retrofit
T	TRUESEAL
Y	Demi Stub
Z	Demi A & B Std

* EPDM gaskets supplied as standard

Capsules



Code Length (Nominal)	Retention Rating	Code Flush	Code Inlet Connection	Code Outlet Connection	Code Vent / Drain Seals
E 4.4" (113 mm)	B	N None	T 1" Tri-Clamp	T 1" Tri-Clamp	S Silicone
B 5.5" (140 mm)	D		N 1/2" NPT Male	N 1/2" NPT Male	
A 7.9" (200 mm)			H 1/2" Hosebarb	H 1/2" Hosebarb	
			G Stepped Hosebarb	G Stepped Hosebarb	
			M 1/4" NPT Male	M 1/4" NPT Male	
			V 3/8" NPT Female	V 3/8" NPT Female	

Supplied in packs of 3.

* Approx. values as in Holt, J.G., Krieg, N.R., Sneath, P.H.A., Staley, J.T., Williams, S.T., 1994. *Bergey's Manual of Determinative Bacteriology, Ninth Edition, Williams & Wilkins*.

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Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)