



# PEPLYN PLUS Filters

- liquid filters
- polypropylene

PEPLYN PLUS liquid filter cartridges are utilized for the clarification and prefiltration of a wide range of products in the fermentation and fine chemical industries.

The all polypropylene construction ensures a broad range of chemical compatibility making PEPLYN PLUS cartridges particularly suitable for the filtration of aggressive and viscous chemicals and solvents. They do not suffer from hydrolysis in aggressive solutions which would result in the contamination of the process fluid.

Extensive research has resulted in filter media with continuously graded fibre density giving progressively finer particulate retention through the depth of the media. This combined with optimized media pleating density gives PEPLYN PLUS cartridges exceptional lifetime performance.

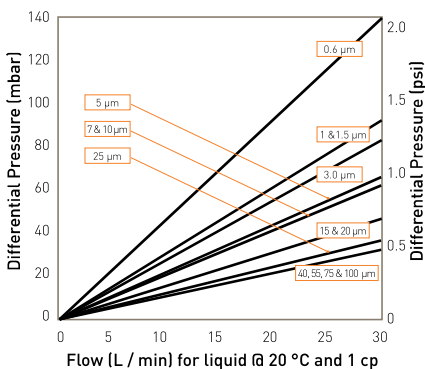
## Features and Benefits

- Micron rating range from 0.6 to 100 micron
- Pleated media for high flow rates and long life
- Graded density for excellent particle retention
- Wide range of end caps to provide retrofitting of existing systems
- All polypropylene construction



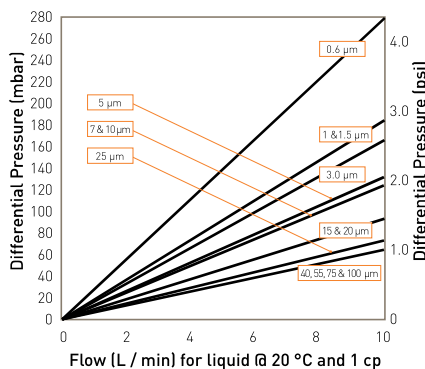
Note: PEPLYN is a registered trademark of Parker Hannifin Corporation.

## 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 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

### 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 0.79 m<sup>2</sup> (8.50 ft<sup>2</sup>)

### Cleaning and Sterilization

PEPLYN PLUS 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.

### Retention Characteristics

The retention characteristics of PEPLYN PLUS have been determined by a single-pass technique using suspensions of ISO 12103 Part 1 A2 Fine and A4 Coarse test dust in water.

Media Code	Micron Rating at Various Efficiencies				
	>99.99% 10000	99.98% 5000	99.90% 1000	99% 100	90% 10
.60	0.60	0.57	0.54	0.32	0.20
1.0	1.00	0.95	0.90	0.70	0.50
1.5	1.50	1.40	1.10	0.80	0.60
003	3.00	2.80	1.80	1.00	0.70
005	5.00	4.70	4.50	3.50	1.00
007	7.00	6.70	6.30	4.50	2.50
010	10.00	8.00	7.00	4.80	2.80
015	15.00	12.00	10.00	7.20	4.50
020	20.00	16.00	14.00	10.00	6.00
025	25.00	20.00	17.00	12.00	7.00

## Ordering Information

### Cartridges



Code   Length (Nominal)	Code   Micron	Code   Micron	Code   Endcap (10")	Code   Variant	Code   O-rings
B* 2.5" (65 mm)	.60 0.6 µm	015 15.0 µm	B* dh DOE	S Steam Sterilizable Standard	E EPDM
A* 5" (125 mm)	1.0 1.0 µm	020 20.0 µm	C BF / 226 Bayonet	/	P PTFE Encapsulated Silicone
K 5" (125 mm)	1.5 1.5 µm	025 25.0 µm	D Fin / 222		S* Silicone
1 10" (250 mm)	003 3.0 µm	040 40.0 µm	E Flat Top / 222	For detailed operational procedures and advice on cleaning and sterilization, please contact the Technical Support Group through your usual Parker contact.	V Viton
2 20" (500 mm)	005 5.0 µm	055 55.0 µm	G Recess / 222		
3 30" (750 mm)	007 7.0 µm	075 75.0 µm	H UF Retrofit		
4 40" (1000 mm)	010 10.0 µm	100* 100.0 µm	J SOE (no o-ring)		
			L* dh DOE		
			N Internal 213		
			R BF / 222 Bayonet		
			<b>Code   Endcap (Demi)</b>		
			SK Retrofit		
			T TRUESEAL		
			Y Demi Stub		
			Z Demi A & B Std		

\* Supplied in packs of 3.

\* Not available in B and A lengths.

\* EPDM gaskets supplied as standard.

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