



PEPLYN PLUS Filter Cartridges

- liquid filters
- polypropylene

PEPLYN PLUS liquid filter cartridges are utilized for the clarification and prefiltration of a wide range of products in the pharmaceutical, beverage, ultrapure water 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.

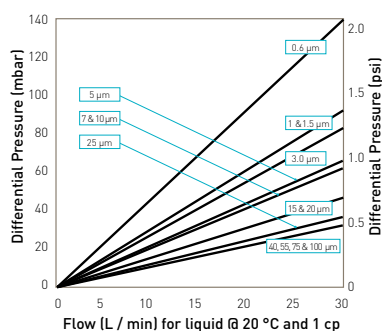
Features and Benefits

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



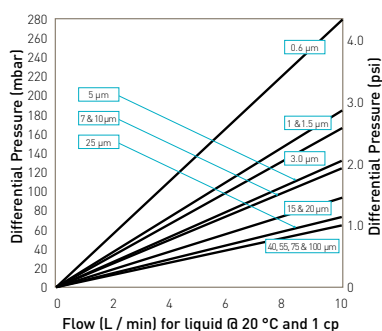
Note: PEPLYN is a registered trademark of Parker domnick hunter

Performance Characteristics



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

10" Size (250 mm) Cartridge



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

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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
- Filling Bell: Polycarbonate
- Syringe Filter Body: Polypropylene

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 °C	Temperature °F	Max. Forward dP (bar)	Max. Forward 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

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 0.79 m² (8.50 ft²)

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. Capsules can be repeatedly autoclaved up to 135 °C (275 °F).

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

Pharmaceutical Validation

A full validation guide is available upon request from Laboratory Services Group (LSG).

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	E Electronics	E EPDM
A* 5" (125 mm)	1.0 1.0 µm	020 20.0 µm	C BF / 226 Bayonet	P Pharmaceutical	P PTFE Encapsulated Silicone
K 5" (125 mm)	1.5 1.5 µm	025 25.0 µm	D Fin / 222	S Steam Sterilizable	S* Silicone
1 10" (250 mm)	003 3.0 µm	040 40.0 µm	E Flat Top / 222	/ None	V Viton
2 20" (500 mm)	005 5.0 µm	055 55.0 µm	G Recess / 222	For detailed operational procedures and advice on cleaning and sterilization, please contact the Technical Support Group through your usual Parker deminick hunter contact.	
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	*Silicone o-ring supplied as standard without having to specify the 'S' code.	
			R BF / 222 Bayonet		
			Code Endcap (Demi)		
			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

Capsules

ZEPP			-				-			-									
Code Length (Nominal)		Code Micron		Code Micron		Code Inlet Connection		Code Outlet Connection		Code Variant		Code Grade		Code Pack N°					
E	4.4" [113 mm]	.60	0.6 µm	015	15.0 µm	T	1" Tri-Clamp	T	1" Tri-Clamp	P	Pharmaceutical	N	Non-Sterile	3	Pack of 3				
B	5.5" [140 mm]	1.0	1.0 µm	020	20.0 µm	N	1/2" NPT Male	N	1/2" NPT Male										
A	7.9" [200 mm]	1.5	1.5 µm	025	25.0 µm	H	1/2" Hosebarb	H	1/2" Hosebarb										
		003	3.0 µm	040	40.0 µm	G	Stepped Hosebarb	G	Stepped Hosebarb										
		005	5.0 µm	055	55.0 µm	M	1/4" NPT Male	M	1/4" NPT Male										
		007	7.0 µm	075	75.0 µm	Q	Walther QC	Q	Walther QC										
		010	10.0 µm			R	Grommel / QC	R	Grommel / QC										
						V	3/8" NPT Female	V	3/8" NPT Female										
																Code Accessory			
																FB Filling Bell			
										G & H connections only									

Syringe Filters

Code Diameter	Code Micron	Code Inlet / Outlet Connection	Code Inlet / Outlet Connection	Code Variant	Code Grade	Code Options	Code Pack N°
025 25 mm	.60 0.6 µm	F Female Luer Lock	F Female Luer Lock	P Pharmaceutical	N Non-sterile	S Standard	025 25 per box
050 50 mm	1.0 1.0 µm	G Stepped Hosebarb	G Stepped Hosebarb				

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