# **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.

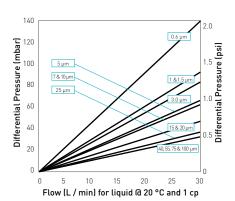
#### Features and Benefits

- Micron rating range from 0.6 to 100 micron
- 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 domnick hunter

# **Performance Characteristics**



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 multiply B size differential pressure by 2

10" Size (250 mm) Cartridge

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 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:

Temp °C	erature °F	Max. For (bar)	. 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)

Up to 0.79 m<sup>2</sup> (8.50 ft<sup>2</sup>) 10" (250 mm)

# 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**

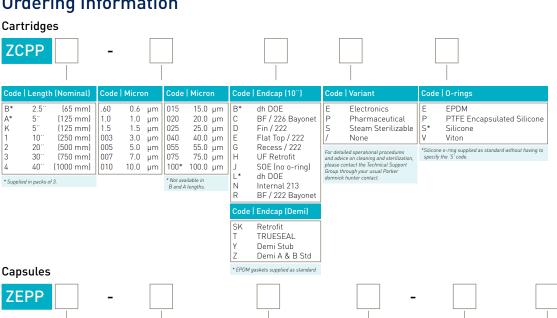
The retention characteristics of PEPLYN PLUS have been determined by a single-pass technique using suspensions of ISO 12103 Part 1 A2 Fine and A4 Coarse test dust in water.

Media Code	Micro >99.99% 10000	n Rating a 99.98% 5000	t Various E 99.90% 1000	fficiencies 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**



Japoutes						
ZEPP	-		-			
Code   Length (Nominal)	Code   Micron Code   Mic	n Code   Inlet Connection	Code   Outlet Connection	Code   Variant	Code   Grade	Code   Pack N°
E 4.4" (113 mm B 5.5" (140 mm A 7.9" (200 mm	1.0 1.0 µm 020 20.0	um G Stepped Hosebarb um M 1/4" NPT Male um Q Walther QC R Grommel / QC	T 1" Tri-Clamp N 1/2" NPT Male H 1/2" Hosebarb G Stepped Hosebarb M 1/4" NPT Male Q Walther QC R Grommel / QC	P Pharmaceutical	N Non-Sterile	3 Pack of 3  Code   Accessory  FB Filling Bell  6 & H connections only
Syringe Filters		V <sup>3</sup> / <sub>8</sub> " NPT Female	V 3/8" NPT Female			
7CDD						

N

Non-sterile S

Code   Dia	ameter	Code	Mic	ron	Code   Inlet / Outlet Connection	Code	e   Inlet / Outlet Connection	Code	Variant
	5 mm 0 mm	.60 1.0	0.6 1.0	μm μm	F Female Luer Lock G Stepped Hosebarb	F G	Female Luer Lock Stepped Hosebarb	Р	Pharmaceutical

www.parker.com/processfiltration