PEPLYN PLUS Filter Cartridges

- liquid filters
- polypropylene

PEPLYN PLUS liquid filter cartridges are utilised 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 optimised media pleating density gives PEPLYN PLUS cartridges exceptional lifetime performance.

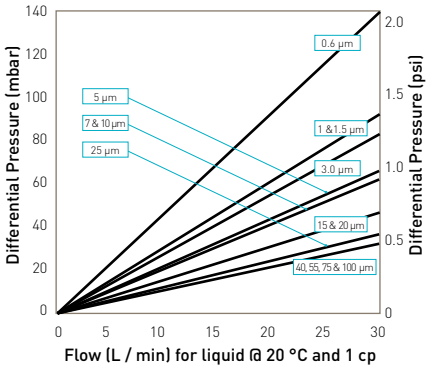


Note: PEPLYN is a registered trademark of Parker domnick hunter

Features and Benefits

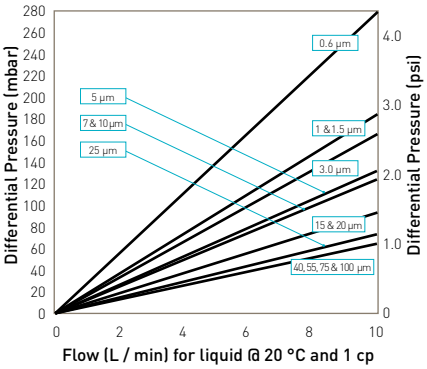
- Micron rating range from 0.6 to 100 micron
- Pleated media for high flow rates and long life
- Graded density for excellent particle retention
- Wide range of end caps to provide retrofitting of existing systems
- All polypropylene construction

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: 316L Stainless Steel
- 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 and 4.0 barg (58.01 psig) in air / gas.

Effective Filtration Area (EFA)

10" (250 mm) 0.79 m^2 (8.50 ft^2)

Cleaning and Sterilisation

PEPLYN PLUS cartridges can be repeatedly steam sterilised in situ or autoclaved at up to 135 °C (275 °F). They can be sanitised 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).

For detailed operational procedures and advice on cleaning and sterilisation, please contact the Technical Support Group through your usual Parker domnick hunter contact.

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 Course 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

Recommended Rinse Volume

Prior to use - 10 litres per 10" (250 mm) filter cartridge.

Pharmaceutical Validation

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

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 contact 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.

12/08 Rev. 3A

Cartridges

ZCPP □ - □ □ □ □

Code	Length (Nominal)
B	2.5" (65 mm)
A	5" (125 mm)
K	5" (125 mm)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)

Code	Micron
.60	0.6 µm
1.0	1.0 µm
1.5	1.5 µm
003	3.0 µm
005	5.0 µm
007	7.0 µm
010	10.0 µm

Code	Micron
015	15.0 µm
020	20.0 µm
025	25.0 µm
040	40.0 µm
055	55.0 µm
075	75.0 µm
100	100.0 µm

Code	Endcap (10")
B	dh DOE
C	BF / 226 Bayonet
G	Recess / 222
N	Internal 213
R	BF / 222 Bayonet

Code	Endcap (Demi)
SK	Retrofit
T	TRUESEAL
Y	Demi Stub
Z	Demi A & B Std

Code	Variant
E	Electronics
P	Pharmaceutical
S	Steam Sterilisable

Code	O-rings
E	EPDM
P	PTFE
S	Silicone
V	Viton

Capsules

ZEPP □ - □ □ □ - □ N □ □

Code	Length (Nominal)
E	4.4" (113 mm)
B	5.5" (140 mm)
A	7.9" (200 mm)

Code	Micron
.60	0.6 µm
1.0	1.0 µm
1.5	1.5 µm
003	3.0 µm
005	5.0 µm
007	7.0 µm
010	10.0 µm

Code	Micron
015	15.0 µm
020	20.0 µm
025	25.0 µm
040	40.0 µm
055	55.0 µm
075	75.0 µm
100	100.0 µm

Code	Inlet Connection
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
V	3/8" NPT Female

Code	Outlet Connection
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
V	3/8" NPT Female

Code	Variant
P	Pharmaceutical

Code	Pack N°
3	Pack of 3

Code	Accessory
FB	Filling Bell

G & H styles only

Syringe Filters

ZSPP □ - □ □ □ □ □ □ □

Code	Diameter
025	25 mm
050	50 mm

Code	Micron
.60	0.6 µm
1.0	1.0 µm

Code	Inlet / Outlet Connection
A	3/16" Hosebarb
B	1/8" BSPT
C	3/16" Stepped Hosebarb
D	5/16" Thread
F	Female Luer Lock

Code	Inlet / Outlet Connection
G	Stepped Hosebarb
J	Male Luer Lock
L	1/8" NPT Male
M	Male Luer Slip

Availability Dia. 50
A, B, D, F, G, L

Availability Dia. 25
C, F, J, M

Code	Variant
P	Pharmaceutical

Code	Grade
N	Non-sterile

Code	Options
S	Standard

Code	Pack N°
025	25 per box

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