

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

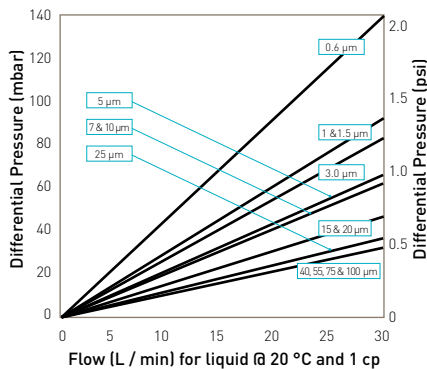
## PEPLYN PLUS Filter Cartridges

- liquid filters
- polypropylene



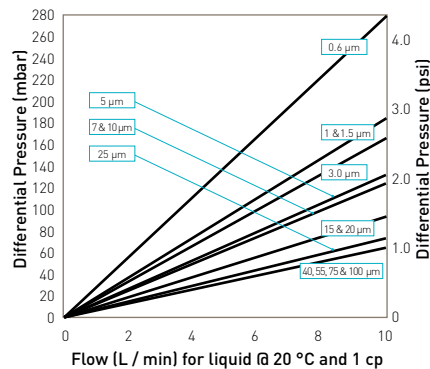
Note: PEPLYN is a registered trademark of Parker domnick hunter

## 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**

## 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  |              | 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 0.79 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. 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%<br>10000                      | 99.98%<br>5000 | 99.90%<br>1000 | 99%<br>100 | 90%<br>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

ZCPP

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| 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 domnick hunter contact. | *Silicone o-ring supplied as standard without having to specify the 'S' code. |
| 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   |                                                                                                                                                                            |                                                                               |
|                         |               |               | 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

### Capsules

| ZEPP                    |               | -             |                         |                          |                  |               |                |                  |  |
|-------------------------|---------------|---------------|-------------------------|--------------------------|------------------|---------------|----------------|------------------|--|
| Code   Length (Nominal) | Code   Micron | Code   Micron | Code   Inlet Connection | Code   Outlet Connection | Code   Variant   | Code   Grade  | Code   Pack N° | Code   Accessory |  |
| 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    | FB Filling Bell  |  |
| 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        |                  |               |                |                  |  |
|                         |               |               | G & H connections only  |                          |                  |               |                |                  |  |

### Syringe Filters

| ZSPP            |               | -                                |                                  |                  |               |                |                |  |  |
|-----------------|---------------|----------------------------------|----------------------------------|------------------|---------------|----------------|----------------|--|--|
| 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               |                  |               |                |                |  |  |

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.

The below Parker PEPLYN PLUS-series cartridge filters are all the models that are potentially possible in all variations. Please note that not all models are actually produced or on stock and some model numbers and names have become obsolete. Nevertheless this should help as cross reference table chart for Cuno filters nomenclature.

|             |             |             |             |             |             |             |              |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ZCPBP-60B   | ZCPPB-015B  | ZCPPA-60B   | ZCPPA-015B  | ZCPPK-60B   | ZCPKP-015B  | ZCPPI-60B   | ZCPIP-015B   | ZCPP2-60B   | ZCPP2-015B  | ZCPP3-60B   | ZCPP3-015B  | ZCPP4-60B   | ZCPP4-015B  |
| ZCPPB-60C   | ZCPPB-015C  | ZCPPA-60C   | ZCPPA-015C  | ZCPPK-60C   | ZCPKP-015C  | ZCPPI-60C   | ZCPIP-015C   | ZCPP2-60C   | ZCPP2-015C  | ZCPP3-60C   | ZCPP3-015C  | ZCPP4-60C   | ZCPP4-015C  |
| ZCPPB-60D   | ZCPPB-015D  | ZCPPA-60D   | ZCPPA-015D  | ZCPPK-60D   | ZCPKP-015D  | ZCPPI-60D   | ZCPIP-015D   | ZCPP2-60D   | ZCPP2-015D  | ZCPP3-60D   | ZCPP3-015D  | ZCPP4-60D   | ZCPP4-015D  |
| ZCPPB-60E   | ZCPPB-015E  | ZCPPA-60E   | ZCPPA-015E  | ZCPPK-60E   | ZCPKP-015E  | ZCPPI-60E   | ZCPIP-015E   | ZCPP2-60E   | ZCPP2-015E  | ZCPP3-60E   | ZCPP3-015E  | ZCPP4-60E   | ZCPP4-015E  |
| ZCPPB-60G   | ZCPPB-015G  | ZCPPA-60G   | ZCPPA-015G  | ZCPPK-60G   | ZCPKP-015G  | ZCPPI-60G   | ZCPIP-015G   | ZCPP2-60G   | ZCPP2-015G  | ZCPP3-60G   | ZCPP3-015G  | ZCPP4-60G   | ZCPP4-015G  |
| ZCPPB-60H   | ZCPPB-015H  | ZCPPA-60H   | ZCPPA-015H  | ZCPPK-60H   | ZCPKP-015H  | ZCPPI-60H   | ZCPIP-015H   | ZCPP2-60H   | ZCPP2-015H  | ZCPP3-60H   | ZCPP3-015H  | ZCPP4-60H   | ZCPP4-015H  |
| ZCPPB-60J   | ZCPPB-015J  | ZCPPA-60J   | ZCPPA-015J  | ZCPPK-60J   | ZCPKP-015J  | ZCPPI-60J   | ZCPIP-015J   | ZCPP2-60J   | ZCPP2-015J  | ZCPP3-60J   | ZCPP3-015J  | ZCPP4-60J   | ZCPP4-015J  |
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| ZCPPB-60N   | ZCPPB-015N  | ZCPPA-60N   | ZCPPA-015N  | ZCPPK-60N   | ZCPKP-015N  | ZCPPI-60N   | ZCPIP-015N   | ZCPP2-60N   | ZCPP2-015N  | ZCPP3-60N   | ZCPP3-015N  | ZCPP4-60N   | ZCPP4-015N  |
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| ZCPPB-1.0C  | ZCPPB-020C  | ZCPPA-1.0C  | ZCPPA-020C  | ZCPPK-1.0C  | ZCPKP-020C  | ZCPPI-1.0C  | ZCPIP-020C   | ZCPP2-1.0C  | ZCPP2-020C  | ZCPP3-1.0C  | ZCPP3-020C  | ZCPP4-1.0C  | ZCPP4-020C  |
| ZCPPB-1.0D  | ZCPPB-020D  | ZCPPA-1.0D  | ZCPPA-020D  | ZCPPK-1.0D  | ZCPKP-020D  | ZCPPI-1.0D  | ZCPIP-020D   | ZCPP2-1.0D  | ZCPP2-020D  | ZCPP3-1.0D  | ZCPP3-020D  | ZCPP4-1.0D  | ZCPP4-020D  |
| ZCPPB-1.0E  | ZCPPB-020E  | ZCPPA-1.0E  | ZCPPA-020E  | ZCPPK-1.0E  | ZCPKP-020E  | ZCPPI-1.0E  | ZCPIP-020E   | ZCPP2-1.0E  | ZCPP2-020E  | ZCPP3-1.0E  | ZCPP3-020E  | ZCPP4-1.0E  | ZCPP4-020E  |
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| ZCPPB-1.0Z  | ZCPPB-020Z  | ZCPPA-1.0Z  | ZCPPA-020Z  | ZCPPK-1.0Z  | ZCPKP-020Z  | ZCPPI-1.0Z  | ZCPIP-020Z   | ZCPP2-1.0Z  | ZCPP2-020Z  | ZCPP3-1.0Z  | ZCPP3-020Z  | ZCPP4-1.0Z  | ZCPP4-020Z  |
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| ZCPPB-1.5C  | ZCPPB-025C  | ZCPPA-1.5C  | ZCPPA-025C  | ZCPPK-1.5C  | ZCPKP-025C  | ZCPPI-1.5C  | ZCPIP-025C   | ZCPP2-1.5C  | ZCPP2-025C  | ZCPP3-1.5C  | ZCPP3-025C  | ZCPP4-1.5C  | ZCPP4-025C  |
| ZCPPB-1.5D  | ZCPPB-025D  | ZCPPA-1.5D  | ZCPPA-025D  | ZCPPK-1.5D  | ZCPKP-025D  | ZCPPI-1.5D  | ZCPIP-025D   | ZCPP2-1.5D  | ZCPP2-025D  | ZCPP3-1.5D  | ZCPP3-025D  | ZCPP4-1.5D  | ZCPP4-025D  |
| ZCPPB-1.5E  | ZCPPB-025E  | ZCPPA-1.5E  | ZCPPA-025E  | ZCPPK-1.5E  | ZCPKP-025E  | ZCPPI-1.5E  | ZCPIP-025E   | ZCPP2-1.5E  | ZCPP2-025E  | ZCPP3-1.5E  | ZCPP3-025E  | ZCPP4-1.5E  | ZCPP4-025E  |
| ZCPPB-1.5G  | ZCPPB-025G  | ZCPPA-1.5G  | ZCPPA-025G  | ZCPPK-1.5G  | ZCPKP-025G  | ZCPPI-1.5G  | ZCPIP-025G   | ZCPP2-1.5G  | ZCPP2-025G  | ZCPP3-1.5G  | ZCPP3-025G  | ZCPP4-1.5G  | ZCPP4-025G  |
| ZCPPB-1.5H  | ZCPPB-025H  | ZCPPA-1.5H  | ZCPPA-025H  | ZCPPK-1.5H  | ZCPKP-025H  | ZCPPI-1.5H  | ZCPIP-025H   | ZCPP2-1.5H  | ZCPP2-025H  | ZCPP3-1.5H  | ZCPP3-025H  | ZCPP4-1.5H  | ZCPP4-025H  |
| ZCPPB-1.5J  | ZCPPB-025J  | ZCPPA-1.5J  | ZCPPA-025J  | ZCPPK-1.5J  | ZCPKP-025J  | ZCPPI-1.5J  | ZCPIP-025J   | ZCPP2-1.5J  | ZCPP2-025J  | ZCPP3-1.5J  | ZCPP3-025J  | ZCPP4-1.5J  | ZCPP4-025J  |
| ZCPPB-1.5L  | ZCPPB-025L  | ZCPPA-1.5L  | ZCPPA-025L  | ZCPPK-1.5L  | ZCPKP-025L  | ZCPPI-1.5L  | ZCPIP-025L   | ZCPP2-1.5L  | ZCPP2-025L  | ZCPP3-1.5L  | ZCPP3-025L  | ZCPP4-1.5L  | ZCPP4-025L  |
| ZCPPB-1.5N  | ZCPPB-025N  | ZCPPA-1.5N  | ZCPPA-025N  | ZCPPK-1.5N  | ZCPKP-025N  | ZCPPI-1.5N  | ZCPIP-025N   | ZCPP2-1.5N  | ZCPP2-025N  | ZCPP3-1.5N  | ZCPP3-025N  | ZCPP4-1.5N  | ZCPP4-025N  |
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