PEPLYN HD Filter Cartridges

- liquid filters
- polypropylene





The two ways to increase the lifetime of a filter are to increase the amount of contamination it can handle, or to improve the effectiveness of cleaning procedures.

PEPLYN HD combines both of these capabilities in an advanced pleated construction. PEPLYN HD utilises high depth pleated polypropylene media that balances high contaminant loading capacity with efficient cleaning.

Capture of particles is throughout the depth of the media, larger particles being retained in the outer prefiltration layers, whilst the inner graded density PEPLYN media provides accurately defined retention under wide extremes of operating conditions. The lifetime of PEPLYN HD is enhanced by its ability to withstand frequent backwash cleaning.

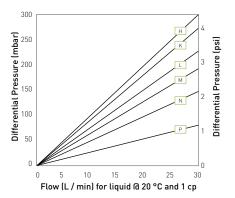
Features and Benefits

- Raw water filtration for the protection of downstream process such as RO membranes
- Trap filtration removing pre-coat and body fed particles that have been released from powder filters
- Removal of carbon and resin fines downstream from treatment processes



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

Specifications

Materials of Construction

Filtration Media: Polypropylene ■ Prefilter 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 ■ Standard o-rings/gaskets: Silicone / EPDM ■ Capsule Body: Polypropylene ■ Capsule Vent Seals: Silicone

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. Forward dP (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 and 4.0 barg [58.01 psig] in air / gas.

Effective Filtration Area (EFA)

10" (250 mm) 0.3 m² (3.22 ft²)

Cleaning and Sterilisation

PEPLYN HD 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

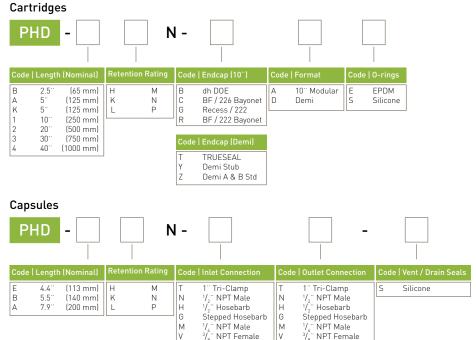
The retention characteristics of PEPLYN HD filter cartridges have been determined by a single-pass technique using suspensions of ISO 12103 Pt. 1 A2 Fine and A4 Course test dust in water.

Efficiency Beta Ratio			ng at Vari 99.90% 1000	ous Effic 99% 100	95% 20	90% 10
Н	4.8	4.0	3.2	2.6	1.9	1.6
K	9.0	8.2	6.9	5.0	3.7	3.4
L	12.0	10.0	7.8	5.9	4.6	4.0
М	14.0	10.0	9.2	6.9	6.1	5.0
N	17.0	14.0	12.0	9.0	7.0	6.0
P	22.0	18.0	15.0	12.0	9.4	6.8

Recommended Rinse Volume

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

Ordering Information



Parker domnick hunter has a continuous policy of product development and although the Company resenses the right to change specifications, it attempts to keep customers informed of any alteration. This publication is for general information only and customers are requested to contact or 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.