PEPLYN HD
Filter Cartridges

PEPLYN HD filter cartridges have been developed to excel in liquid clarification applications where a consistent quality of filtrate is required from variable particle loadings of the process solution.

The PEPLYN HD filter media has outstanding particle holding capacity through its multi-layer high depth construction, providing extended service lifetimes and consistent quality filtrate under demanding conditions.

Capture of particles is throughout the depth of the media with larger particles being retained in the outer pre-filtration layers, while the inner graded density media provides accurately defined retention to finer particulate. Both these mechanisms combine to provide a cartridge filter which returns extended service lifetimes.

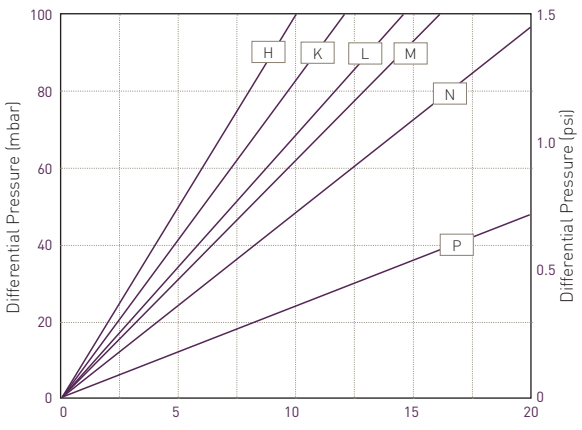
Features

- High depth, graded density filtration media
- Available in a range of absolute micron retention ratings
- All polypropylene, thermally bonded cartridge construction

Benefits

- Increased dirt holding capacity and resistance to blockage under high loading conditions
- Ability to provide consistent quality of filtrate in a wide range of clarification applications.
- Compatible with aggressive process conditions including chemical cleaning and steam sanitization.

Performance Characteristics

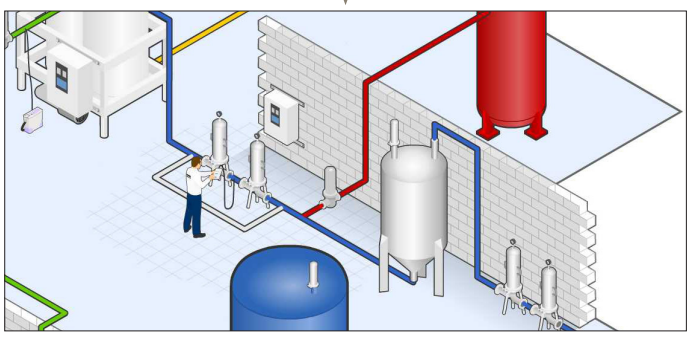


Flow (L / min) for liquid @ 20 °C and 1 cp per 10¨module

Recommended flow rate 10-15 L / min / 10" module

Filtration Stage

Clarification | **Pre-stabilization** | Final Stabilization



PEPLYN HD

FOOD & BEVERAGE

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

Food Contact Compliance

Materials conform to the relevant requirements of FDA 21CFR Part 177, current 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

Effective Filtration Area (EFA)

10˝ (250 mm) Up to 0.3 m^2 (3.22 ft^2)

Cleaning and Sterilization

PEPLYN HD 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.

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.

	Micron rating at various efficiencies					
Media	>99.99%	99.98%	99.90%	99%	95%	90%
Code	10000	5000	1000	100	20	10
G	3.00	2.80	1.80	1.00	0.85	0.70
H	4.80	4.70	3.20	2.60	1.90	1.60
K	9.00	8.20	6.90	5.00	3.70	3.40
L	12.00	10.00	7.80	5.90	4.60	4.00
M	14.00	10.00	9.20	6.90	6.10	5.00
N	17.00	14.00	12.00	9.00	7.00	6.00
P	22.00	18.00	15.00	12.00	9.40	6.80

Manufacturing Traceability

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

Ordering Information

PHD - [ ] [ ] N - [ ] A [ ]

Code	Length (Nominal)	
1	10˝	(250 mm)
2	20˝	(500 mm)
3	30˝	(750 mm)
4	40˝	(1000 mm)

Code	Micron
G	3.0 µm
H	4.8 µm
K	9.0µm
L	12.0µm
M	14.0µm
N	17.0µm
P	22.0µm

Code	Endcap (10 inch)
C	BF / 226 Bayonet
D	Fin / 222
E	Flat Top / 222
G	Recess / 222
H	UF Retrofit
R	BF / 222 Bayonet

Code	O-rings
S*	Silicone
E	EPDM

** Silicone o-ring supplied as standard*

VSH & HSL range of Sanitary Beverage Housings

- Multi and single elements
- Designed specifically for the food & beverage industry 0.4µM Ra internal, 0.25µM Ra external
- High quality crevice free construction
- Available for up to 30 round filters
- Sanitary vent, tri-clamp connections as standard
- Sanitary tri-clamp body closure as standard

© +44 (0)191 4105121 dhprocess@parker.com www.parker.com/processfiltration