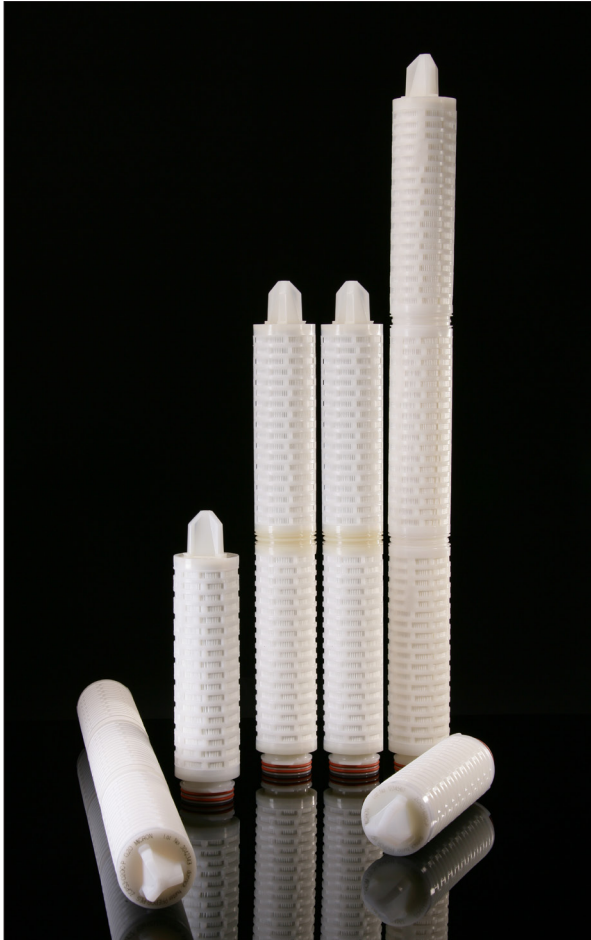


# PEPLYN HA

## Filter Cartridges



PEPLYN HA filters have been specifically developed to provide the optimum solution for particulate removal in liquid clarification applications.

The filtration media balances a high surface area and closely controlled porosity, in a configuration that maximizes the cleaning efficiency of the cartridge through backwash procedures.

Capture of larger insoluble particulate is predominantly on the surface of the media, where the rigid, open pleat structure ensures that backwash cleaning provides effective removal. Smaller colloids are retained throughout the depth of the graded density PEPLYN media, providing accurately defined retention under the variable particle loading conditions typical in clarification applications.

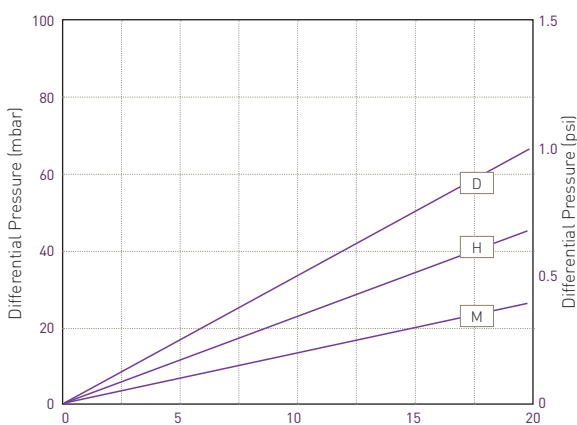
### Features

- Specially designed media for backwash regeneration against insoluble particulate
- High surface area
- Available in a range of absolute micron retention ratings

### Benefits

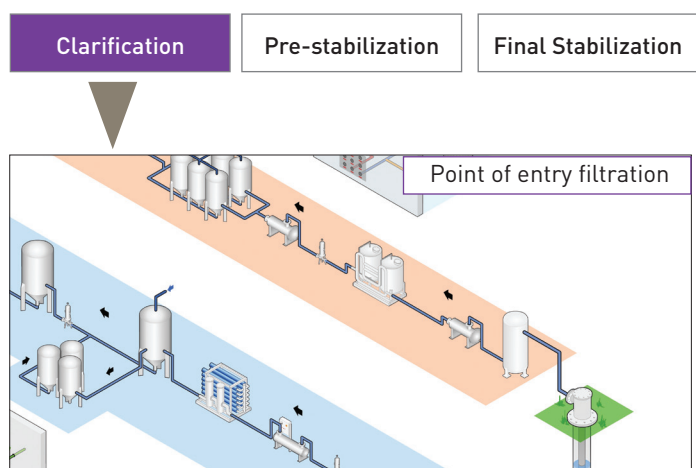
- Increased service life when combined with frequent backwash cleans
- High flow and increased resistance to blockage under high particle loading conditions
- A consistent and reliable quality filtrate delivered to intermediate storage in the bottling facility

### 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





## 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]	[psil]
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 0.7 m<sup>2</sup> (7.53 ft<sup>2</sup>)

### Cleaning and Sterilization

PEPLYN HA 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 HA 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%	99.98%	99.90%	99%	95%	90%
D	1.00	0.95	0.90	0.70	0.60	0.50
E	1.50	1.40	1.10	0.80	0.70	0.60
G	3.00	2.80	1.80	1.00	0.90	0.70
H	5.00	4.70	4.50	3.50	2.30	1.00
K	10.00	8.00	7.00	4.80	3.80	2.80
L	15.00	12.00	10.00	7.20	6.00	4.50
M	20.00	16.00	14.00	10.00	8.00	6.00
N	25.00	20.00	17.00	12.00	9.00	7.00
P	32.00	27.00	24.00	18.00	13.00	10.00
T	50.00	40.00	34.00	28.00	20.00	17.00
U	70.00	55.00	50.00	40.00	30.00	25.00
W	125.00	100.00	80.00	70.00	50.00	40.00

### 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

**PHA** -

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

**N** -

Code	Micron
D	1.00 µm
E	1.50 µm
G	3.00 µm
H	5.00 µm
K	10.00 µm
L	15.00 µm
M	20.00 µm
N	25.00 µm
P	32.00 µm
T	50.00 µm
U	70.00 µm
W	125.00 µm

**A** -

Code	Endcap (10 inch)
C	BF / 224 Bayonet
D	Fin / 222
E	Flat Top / 222
G	Recess / 222
H	UF Retrofit
R	BF / 222 Bayonet

**A** -

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