

# PEPLYN HA Food and Beverage

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.

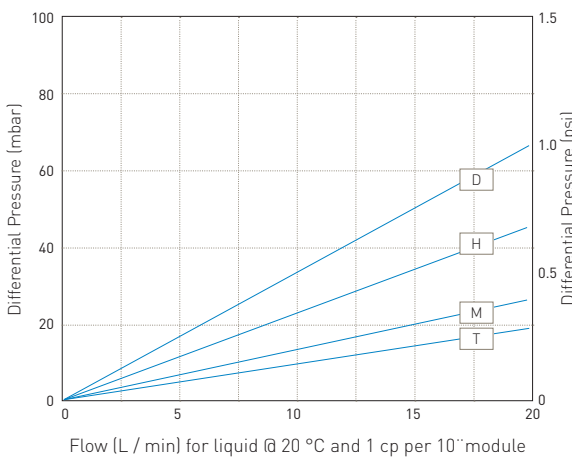
## Features

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

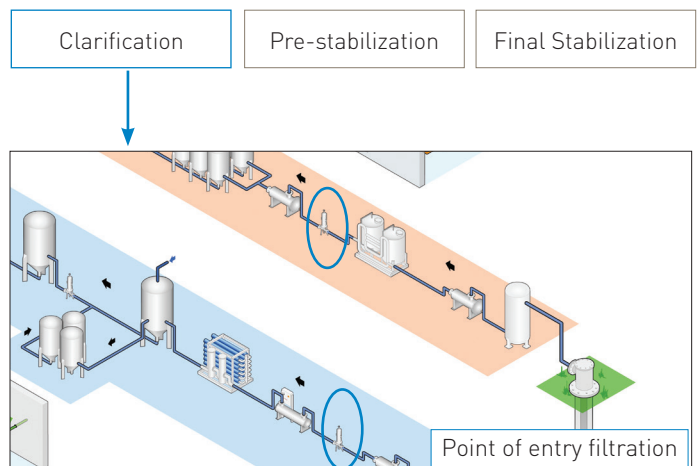
## Benefits

- 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



## 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
■ O-rings:	Silicone / EPDM

### 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.

### 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.

### Food Contact Compliance

Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.



### Retention Characteristics

The retention characteristics of PEPLYN HA 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.

### 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

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

## Ordering information

PHA - [ ] N - [ ] A [ ]

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

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

Code	End Cap (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

VSH & HSL  
HOUSING RANGE  
AVAILABLE