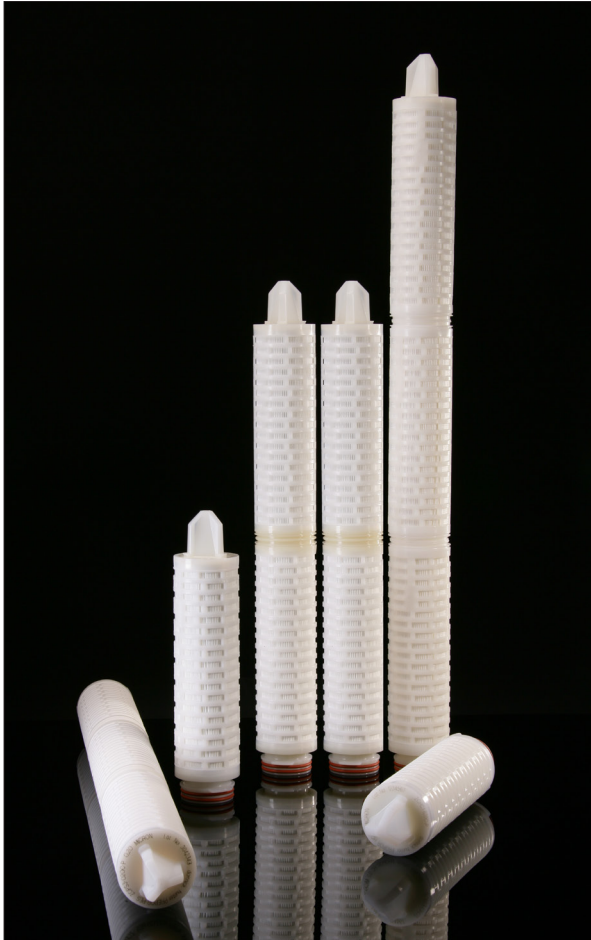


# PEPLYN PLUS

## Filter Cartridges



PEPLYN PLUS filter cartridges are utilized for the clarification and pre-stabilization of process liquids and supporting utility solutions for the beverage industries.

Available in a range of absolute retention ratings, PEPLYN PLUS cartridges represent a cost effective solution to condition a range of beverage products prior to intermediate storage or final stabilization.

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 and retention performance characteristics.

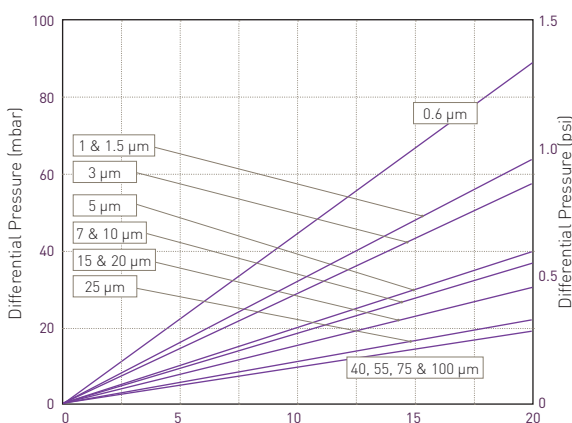
### Features

- Absolute retention ratings from 0.6µm to 100µm
- Pleated media with graded density
- All polypropylene, thermally bonded cartridge construction

### Benefits

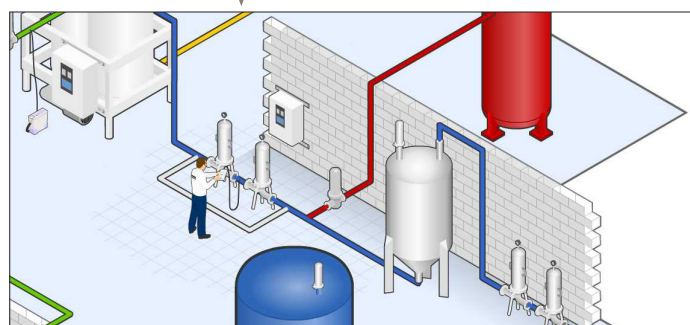
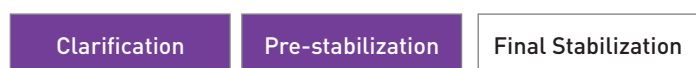
- Reliable, fine particle retention
- High flow and increased service life to blockage
- Compatible with aggressive process conditions including chemical cleaning and steam sanitization

## 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





## 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 endcap variants
- Standard o-rings/gaskets: Silicone / EPDM
- Filling Bell: Polycarbonate

### 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 0.6 m<sup>2</sup> (6.5 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.

### 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 Course test dust in water.

Media Code	Micron rating at various efficiencies				
	>99.99%	99.98%	99.90%	99% 90%	90%
0.6	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

\* Higher microns available upon request

## Ordering Information

### ZCPP

Code   Length (Nominal)		Code   Micron		Code   Endcap (10 inch)		Code   Variant		Code   O-rings	
1	10" (250 mm)	.60	0.6	015	15.0	B*	dh DOE	S*	Silicone
2	20" (500 mm)	1.0	1.0	020	20.0	C	BF / 226 Bayonet	E	EPDM
3	30" (750 mm)	1.5	1.5	025	25.0	D	Fin / 222	* Silicone o-ring supplied as standard	
4	40" (1000 mm)	003	3.0	040	40.0	E	Flat Top / 222		
		005	5.0	055	55.0	G	Recess / 222		
		007	7.0	075	75.0	H	UF Retrofit		
		010	10.0	100	100.0	R	BF / 222 Bayonet		

\*EPDM gaskets 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