

PEPLYN PLUS Food and Beverage

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

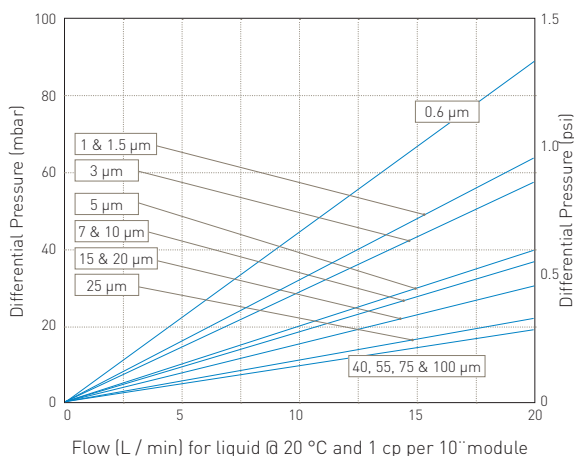
Benefits

Reliable, fine particle retention

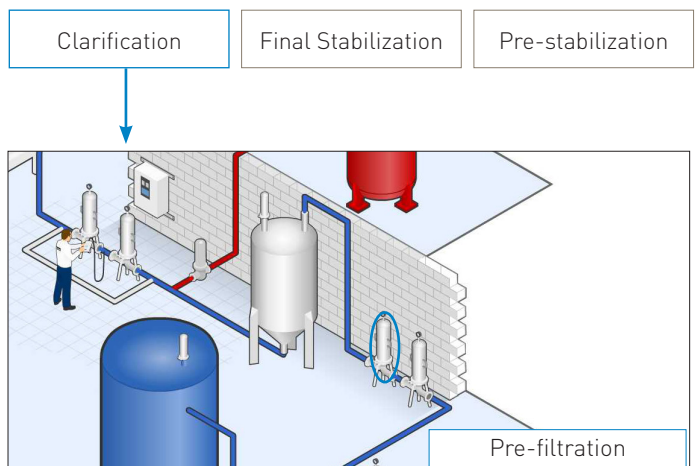
High flow and increased service life to blockage

Compatible with aggressive process conditions including chemical cleaning and steam sanitization

Performance Characteristics



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 End Cap variants
- Standard o-rings: Silicone

Effective Filtration Area (EFA)

10" (250 mm) Up to 0.6 m² (6.5 ft²)

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.

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 PLUS 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 °C	°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

Media Code	Micron rating at various efficiencies				
	>99.99%	99.98%	99.90%	99%	90%
	10000	5000	1000	100	10
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)
1	10" (250 mm)
2	20" (500 mm)
3	30" (750 mm)
4	40" (1000 mm)



Code	Micron	Code	Micron
.60	0.6	015	15.0
1.0	1.0	020	20.0
1.5	1.5	025	25.0
003	3.0	040	40.0
005	5.0	055	55.0
007	7.0	075	75.0
010	10.0	100	100.0



Code	End Cap (10 inch)
B*	dh DOE
C	BF / 226 Bayonet
D	Fin / 222
N	Style 213

*EPDM gaskets supplied as standard



Code	Variant
S*	Steam Sterilizable

*Not available in B End Cap variant



Code	O-rings
S*	Silicone
E	EPDM

*Silicone O-rings supplied as standard

PHP & PHL
HOUSING RANGE
AVAILABLE