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
- I All polypropylene, thermally bonded cartridge construction

Benefits

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



Filtration Stage



PEPLYN PLUS Food and 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 (if applicable):	316L Stainless Steel*
* Not available in B End Cap variants	
Standard o-rings:	Silicone

Food Contact Compliance



177, current EC1935 / 2004 and current USP Plastics Class VI - 121 °C.

Recommended Operating Conditions

Up to 70 °C (158 °F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

Temperatur	e	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 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.

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.

	Micron	rating at v	various ef	ficienc	ies
Media	>99.99%	99.98%	99.90%	99%	90%
Code	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

* Highe

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.

1.00	0.95	0.90	0.70	0.50	
1.50	1.40	1.10	0.80	0.60	
3.00	2.80	1.80	1.00	0.70	
5.00	4.70	4.50	3.50	1.00	
7.00	6.70	6.30	4.50	2.50	
10.00	8.00	7.00	4.80	2.80	
15.00	12.00	10.00	7.20	4.50	
20.00	16.00	14.00	10.00	6.00	
25.00	20.00	17.00	12.00	7.00	
er microns avail	able upon re	equest			

Ordering information

ZCPP -] -						
	Code Length (Nominal)		e Length (Nominal) Code Micron		Code	Code Micron Code End Cap (10 in		End Cap (10 inch)	Code Variant		Code O-rings		
	1	10	(250 mm)	.60	0.6	015	15.0	B*	dh DOE	S*	Steam Sterilizable	S*	Silicone
	2	20"	(500 mm)	1.0	1.0	020	20.0	С	BF / 226 Bayonet	*Nist s	Not available in B End Cap variant	E	EPDM
	3	30	(750 mm)	1.5	1.5	025	25.0	D	Fin / 222	NUL d	valiable in b End Cap variant		
	4	40"	(1000 mm)	003	3.0	040	40.0	E	Flat Top / 222				ne O-rings
				005	5.0	055	55.0	G	Recess / 222			suppli	ed as standard
				007	7.0	075	75.0	Н	UF Retrofit				
				010	10.0	100	100.0	R	BF / 222 Bayonet				
								*EPDM g	askets supplied as standard				



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