Peplyn Plus Filter elements

-> to the Product

PEPLYN PLUS filter elements are made entirely of polypropylene and are used primarily in the beverage industry or also in applications for pre-stabilization of process liquids. The filter elements with absolute separation rate represent an optimal and cost-effective solution for treating a wide variety of beverage products prior to intermediate storage. The continuously graded fiber density represents a major advantage in filtration, as it enables increasingly finer particles to be retained in the filter depth. In combination with an optimum pleat density, the PEPLYN-PLUS offers excellent separation performance and a very long service life.
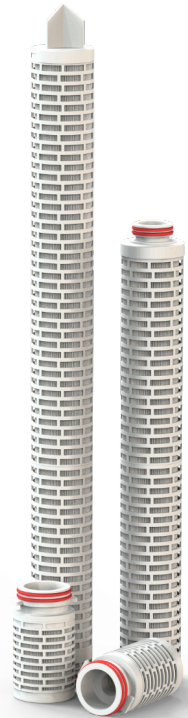
Main features

- Absolute separation efficiency from 0.6 μm to 100 μm
- Pleated filter element with graduated fiber density
- Materials conform to the relevant requirements of FDA 21 CFR Part 177, current 1935/2004 and current USP Plastics Class VI - 121°C
- High flow rate and long service life
- Can also be used under aggressive process conditions

Traceability

- Individual serial number, LOT number and product code for each element

Sterilization

- Steam sterilizable and autoclavable up to 135 °C
- Hot water sterilization with up to 90 °C
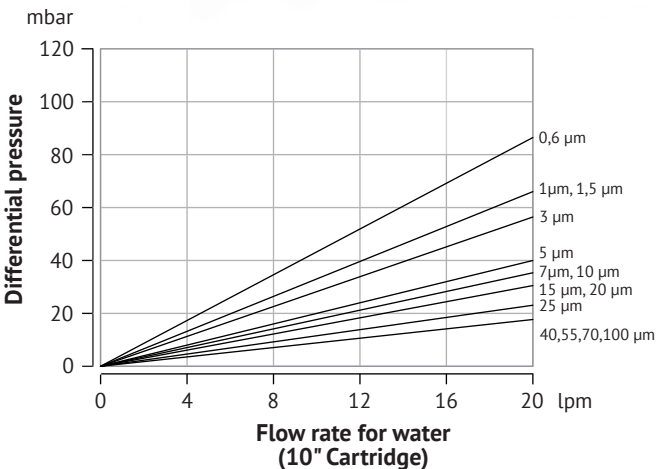- Compatible with a wide range of chemicals

Technical data

Material:	Polypropylene
Insert end caps:	316L stainless steel *not availavle for adapter B
Micron rating:	0,6 μm to 100 μm
Gasket:	Silicone (Standard), others on demand
Element lenght:	10" - 40"
Filter surface:	0,65 m² (per 10"- Filter element)
Max. working temperature:	70°C

Seperation efficiency depending on micron rating

efficiency	> 99,99%	99,98%	99,90%	99%	90%
ß	10000	5000	1000	100	10
0,6	0,6	0,57	0,54	0,32	0,2
1,0	1,0	0,95	0,9	0,7	0,5
1,5	1,5	1,4	1,1	0,8	0,6
3	3	2,8	1,8	1,0	0,7
5	5	4,7	4,5	3,5	1,0
7	7	6,7	6,3	4,5	2,5
10	10	8	7	4,8	2,8
15	15	12	10	7,2	4,5
20	20	16	14	10	6
25	25	20	17	12	7

Differential pressure (mbar) vs Flow rate for water (10" Cartridge) (lpm) — curves labelled: 0,6 μm; 1μm, 1,5 μm; 3 μm; 5 μm; 7μm, 10 μm; 15 μm, 20 μm; 25 μm; 40,55,70,100 μm

Short time temperature for CIP

Temperature [°C]	Differential pressure forward [bar]
20	5,0
40	4,0
60	3,0
80	2,0
90	1,0
>100 (steam)	0,3

Order information

ZCPP ☐ – ☐ ☐ – ☐ ☐

Length		Micron rating				Adapter		Variant		Gasket	
1	10"	.60	0,6 μm	015	15 μm	B*	dh DOE	S*	steam-sterilizable	S*	Silicone
2	20"	1.0	1,0 μm	020	20 μm	C	BF/226/Bajonett				
3	30"	1.5	1,5 μm	025	25 μm	D	Fin/222				
4	40"	003	3,0 μm	040	40 μm	N	Style 216/Code6				
		005	5 mm	055	55 mm						
		007	7 μm	075	75 μm						
		010	10 μm	100	100 μm						

*EPDM as standard gasket

*Not available for adapter B

*Silicone gasket as standard
Without having to specify the „S" code
EPDM, Vition, PTFE on demand

Order example: ZCPP3-1.0CS