

### PREFILTRATION CARTRIDGE WITH HIGH RETENTION EFFICIENCY PLEATED POLYPROPYLENE

The quality requirements demanded by industry today impose more and more often the use of polypropylene filters absolutely reliable in terms of retention.

The CPF-HE cartridge represents a further development in the construction technology of filter cartridges in layers of polypropylene. Extremely reliable in terms of efficiency of filtration and degree of retention is the ideal solution for critical filtrations.

The decreasing density technology combined with a type of "high density" membrane allows to obtain a cartridge with absolute retention power, safe and reliable in cases in which high quality standards are required. The assembly by heat sealing without the use of resins and adhesives guarantees the absence of extractable substances making compact and solid the entire construction.

### TECHNICAL FEATURES

- very high filtering surface and large accumulation capacity of the turbid
- controlled porosity and uniformity of filtration over the entire surface
- absence of migration of fibers from the filter media
- no absorption of color and odor
- regeneration also in countercurrent
- can be sterilized in an autoclave or with flowing steam at 120 ° C
- use of materials in compliance with FDA CFR Title 21. compliant with IIa USP class VI, Plastic Biosafety
- excellent chemical compatibility.

The reliability of a polypropylene element, the safety and precision of an absolute cartridge.

Particularly suitable for the GALVANIC SECTOR and GOLDSMITH (the cartridges are easily burnable for the recovery of the retained precious metal).

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### PLEATED POLYPROPYLENE



<b>DEGREES OF FILTRATION</b>	0,6 - 1,0 - 2,5 - 5,0 - 10,0 - 20,0 - 40,0 µm
<b>Filtration efficiency</b>	100%
	ISO4572 acftd ac fine test dust <20 µm / AC COARSE > 20 µm
<b>MATERIALS</b>	
<b>Filtrating section</b>	pure polypropylene (free from resins or binding agents)
<b>Inner sleeve</b>	polypropylene
<b>Outer cage</b>	polypropylene
<b>Attack and tip</b>	polypropylene
<b>Gaskets</b>	silicone (standard) Viton®, EPDM, Buna N, PTFE
<b>WELDING</b>	Ultrasound / Thermofusion
<b>DIMENSIONS</b>	
<b>Lenght</b>	254 mm (10"), 508 mm (20"), 762 mm (30"), 1016 mm (40")
<b>Ø Outer diameter</b>	69 mm
<b>Ø Inner diameter</b>	26 mm
<b>TRACKABILITY'</b>	Each filter element is identified from a lot number for a complete one trackability
<b>OPERATING CONDITIONS</b>	
<b>Max operating T° in continuous</b>	80°C @ 2,5 bar
<b>Max working pressure (Δp)</b>	5 bar @ 60°C
<b>Max operating Δp recommended</b>	2,5 bar
<b>Max Δp in countercurrent</b>	1,5 bar @ 40°C
<b>RECOMMENDED FLOW (H2O @ 20° C / 10")</b>	
Porosity	0,6 µm - 1100 l/h
	1,0 µm - 1300 l/h
	2,5 µm - 1600 l/h
	5,0 µm - 2000 l/h
	10,0 µm - 2400 l/h
	20,0 µm - 2800 l/h
40,0 µm - 3200 l/h	
<b>SANITIZATION</b>	
<b>with hot water</b>	30 min. @ 80°C
<b>with steam</b>	20 min. @ 120°C
<b>chemical</b>	with the most common chemical agents



Cod.	Dimensions (inches)	Degree of filtration (absolute m)	Filter (material)	Core (material)	Type	Gasket
CPF	10 20 30	0,20 -> <b>002</b>	PP -> <b>P</b>	PP -> <b>P</b>	DOE* -> <b>1</b> SOE 222* -> <b>2</b> SOE 226* -> <b>3</b>	Silicone -> <b>S</b> FPM -> <b>V</b> PTFE -> <b>T</b> EPDM -> <b>E</b>
		0,45 -> <b>045</b>				
		0,60 -> <b>006</b>				
		1,00 -> <b>010</b>				
		2,50 -> <b>025</b>				
		5,00 -> <b>050</b>				
		10,00 -> <b>100</b>				

Coding example:

<b>CPF</b>	<b>20</b>	<b>050</b>	<b>P</b>	<b>P</b>	<b>2</b>	<b>T</b>
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\*DOE = Double Open End

\*SOE 222 = Single Open End - Oring 222

\*SOE 226 = Single Open End - Oring 226

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