

PREcart PP II Filter Cartridges For Particle Removal

PREcart PP II filter cartridges are extremely robust and high performance pleated depth filters designed for particle removal in food and beverage applications.

Description

The PREcart PP II filter element is designed to meet the high mechanical resistance and compatibility requirements of typical food and beverage production cycles of filtration, sanitization, regeneration and steam sterilization.

It is frequently used in a wide variety of applications requiring excellent particle removal. Satisfying filtrate quality specifications or effectively prolonging the life of downstream final filters, PREcart PP II is a proven and versatile solution for the food and beverage industry.

Features	Benefits
Pleated polypropylene filter media with graded density structure and fixed fiber matrix	<ul style="list-style-type: none"> • Consistent and excellent filtrate quality due to highly stable media structure • Long life due to high contaminant holding capacity • Broad chemical compatibility
Superior backflush capability for cartridge regeneration	<ul style="list-style-type: none"> • Improves total throughput • Reduces overall operating costs
Extremely robust cartridges, resistant to multiple <i>in situ</i> steam sterilization and hot water sanitization cycles	<ul style="list-style-type: none"> • Reliable operation • Long service life
Individually serialized cartridges and record controls	<ul style="list-style-type: none"> • Full traceability to materials and production records

Quality

- Cartridges produced in a controlled environment
- Manufactured within a Quality Manufacturing System certified to ISO 9001.

Food Contact Compliance

Please refer to the Pall website <http://www.pall.com/foodandbev> for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.



PREcart PP II Filter Cartridges

Materials of Construction

Component	Description
Filter Medium	Polypropylene
Cage, Core, Fin End and End Cap	Polypropylene
SOE Style Cartridges only Adaptor	Polypropylene with internal stainless steel reinforcing ring
O-ring Seal	Silicone Elastomer Ethylene Propylene Rubber
DOE Style Cartridges only Gaskets	Silicone Elastomer Ethylene Propylene Rubber

Technical Information

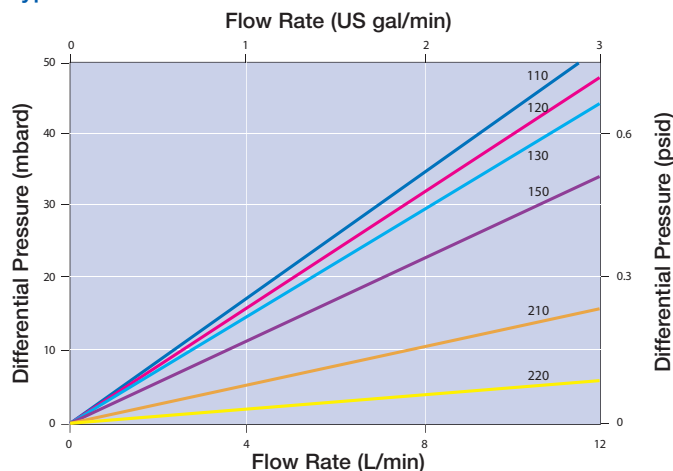
The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

Operating Characteristics in Compatible Fluids¹

Maximum Differential Pressure	Operating Temperature
5.0 bard (72.5 psid) (forward)	25 °C (77 °F)
2.0 bard (29 psid) (forward)	80 °C (176 °F)
1.5 bard (21.8 psid) (forward)	90 °C (194 °F)
1 bard (14.5 psid) (reverse)	60 °C (140 °F)

¹ Fluids which do not swell, soften or adversely affect any of the filter components

Typical Flow Rates²



² Typical initial clean delta p per 254 mm (10 inch) cartridge, water at 20 °C (68 °F). For liquids with viscosity greater than 1 cP, multiply the delta p by the viscosity.

Sterilization and Sanitization³

Method	Maximum Temperature	Number of Cycles
Steam Sterilization (forward)	134 °C (273 °F)	25 x 30 minutes
Hot Water Sanitization (forward)	90 °C (194 °F)	50 x 30 minutes ⁴

³ For applications requiring *in situ* sterilization or sanitization Pall recommends the use of Code 7 adaptors to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use.

⁴ Extensive field experience indicates these filters show excellent resistance to hot water sanitization, typically 50 30-minute cycles at temperatures of 80-90 °C (176-194 °F).

Backflushing

Extensive field experience indicates that these filters withstand over 50 20-minute hot water backflushing cycles at up to 60 °C (140 °F) and maximum 1 bar (14.5 psid). The cleaning effectiveness is a function of several parameters. The use of DOE filters is not recommended.

Ordering Information

This information is a guide to the part numbering structure and possible options. For availability of specific options and housing details, please contact Pall.

Part Number: 499A W P
Table 1 Table 2 Table 3 Table 4

Example Part Number: **499A130W073SP**

See bold reference codes in tables.

Table 1: Removal Rating⁵

Code	Description
110	1 µm
120	2 µm
130	3 µm
150	5 µm
210	10 µm
220	20 µm

⁵ PREcart PP filter cartridge liquid retention ratings are based on a modified OSU-F2 single pass test. The removal efficiency for all grades is 99.98%.

Table 2: Adaptor

Code	Description
03	SOE – single open end with flat closed end and external 222 O-rings
07	SOE – single open end with fin end, 2 locking tabs and external 226 o-rings
08	SOE – single open end with fin end and external 222 O-rings
22	DOE – double open end with end caps and gaskets
221	DOE – double open end with end caps and gaskets
41	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings

Table 3: Nominal Length

Code	Description		
	SOE	DOE (22)	DOE (221)
1	254 mm (10")	252 mm (9.9")	use Code 22
2	508 mm (20")	498 mm (19.6")	506 mm (19.9")
3	762 mm (30")	746 mm (29.4")	762 mm (30")
4	1016 mm (40")	994 mm (39.1")	1018 mm (40.1")

Table 4: O-ring / Gasket Seal Material

Code	Description
S	Silicone Elastomer
E	Ethylene Propylene Rubber