

Profile® II Filter Cartridges for particle removal

Profile II filter cartridges are designed for high-performance clarification and particle removal in food and beverage processes.

Description

Profile II cartridges are high efficiency depth style filters constructed of polypropylene. Constructed of polypropylene, with a continuously graded fixed pore structure, these cartridges provide pre- and final filtration within the same cartridge resulting in lower overall filtration and disposal cost.

The Profile II filter cartridges provide a removal efficiency of >99.98% in compatible liquids with consistent filtration performance.

Features and Benefits

Features	Benefits
Fixed fiber matrix	<ul style="list-style-type: none"> • Consistent filtrate quality • Highly stable structure • Process reliability
Continuous pore size variation from coarse to fine	<ul style="list-style-type: none"> • High dirt holding capacity • Longer service life
Cartridge	
Available in multiple configurations	<ul style="list-style-type: none"> • Easy to integrate into existing lines
Polypropylene construction with no adhesives or surfactants	<ul style="list-style-type: none"> • Broad chemical compatibility

Food Contact Compliance

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



Profile II filter cartridges available in AB, RF and RMF styles

Quality

- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Management System

Materials of Construction

Media	Polypropylene
Core	Polypropylene
AB style cartridges only	
Cage, End Cap and Fin End	Polypropylene
Adaptor	Polypropylene with a stainless steel reinforcing ring
O-ring Seal	Ethylene propylene rubber or silicone elastomer
RMF style cartridges only	
Elastomeric End Cap and Seal	Thermoplastic elastomer

Technical Information

Operating Characteristics in Compatible Fluids¹

Maximum Differential Pressure (forward)	Operating Temperature
4 bard (60 psid)	30 °C (86 °F)
3 bard (50 psid)	50 °C (122 °F)
2 bard (30 psid)	70 °C (158 °F)
1 bard (15 psid)	82 °C (180 °F)
0.3 bard (5 psid)*	125 °C (257 °F)

¹Compatible fluids are defined as those which do not swell, soften or attack any of the filter components.

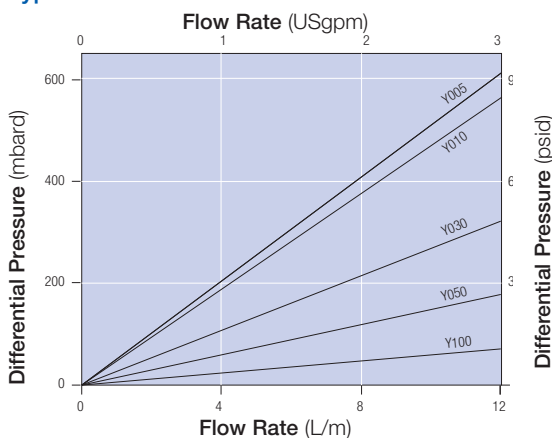
*AB style only.

Sterilization and Sanitization²

Method	Temperature	Cumulative Time
<i>in situ</i> Steam Sterilization	125 °C (257 °F)	10 hours
<i>in situ</i> Hot Water Sanitization	80 °C (176 °F)	

²For applications requiring Sterilization or Sanitization Pall recommends the use of the Code 7 adaptors to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use.

Typical Flow Rates³



³Typical initial clean media ØP 254 mm (10") element, water at 20 °C (122 °F), viscosity 1 cP. For assistance with filter assembly, sizing and housing selection, contact your local Pall representative.

It is recommended that the Max. Flow rate be selected such that the clean element pressure drop does not exceed 0.7 bar (10 psid) for optimal assembly life. Please contact Pall for optimized sizing.

Ordering Information

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

Element Part Number: AB

Table 1

 Y

Table 2

 W

Table 3

 W

Table 4

R

Table 1

 F

Table 2

 W

RM

Table 1

 F

Table 2

 W

Table 1: Nominal Length

Code	Length
AB, RF and RMF Styles only	
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

RF Style only

01	25.4 mm (1")
05	127 mm (5")
09	228.6 mm (9")
39	990.6 mm (39")

RF and RMF Styles only

29	736.6 mm (29")
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Table 3: Adaptor

Code	Description
3	SOE - single open end with flat closed end and external 222 O-rings
7	SOE - single open end with fin end, 2 locking tabs and external 226 O-rings
8	SOE - single open end with fin end and external 222 O-rings
28	SOE - single open end with fin end, 3 locking tabs and external 222 O-rings

(Code 3, 7, 8 and 28 may be available in selected grades, confirm code availability with your Pall representative)

Table 4: O-ring Seal

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

Table 2: Liquid Removal Rating

Grade	Removal rating (µm) at 99.98% Efficiency (β-5000)	Removal rating (µm) at 90% Efficiency (β-10)
005	0.5*	<0.5*
010	1.0	<0.5*
030	3.0	<1.0*
050	5.0	2.0
100	10.0	6.5

Profile II filter cartridge liquid retention ratings are based on ANSI B93.31.73 modified for single pass testing in an aqueous medium.

*extrapolated value



Pall Food and Beverage

25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 866 905 7255 toll free US

Portsmouth - UK
+44 (0)23 9230 2269 telephone
+44 (0)23 9230 2509 fax
industrialeu@pall.com

Visit us on the Web at www.pall.com/foodandbev

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid. Products in this document may be covered by one or more of the following patent numbers: EP 433,661.

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