

# Poly-Ray Plus Filter Cartridge with absolute rating

The Poly-Ray Plus pleated filter is a consistent and effective particle removal elements, with surface finishing with high speed calenders – heated, polished, steel rolls – which press the fabric, making the surface smooth and compact, providing a highly consistent pore structure with narrow pore size distribution, making it ideally suited for pre-filtration, including reliable protection of final membrane filters.

## ► Features & Benefits

- Low pressure drop, high capacity of dust and long service life.
- End caps and connectors sealed by thermal bond, free of binder
- Manufacture in clean room, high clean cartridge.
- Pre-flush with 18 Megohm-cm DI water.
- Poly-Ray Plus filter is an absolute efficiency filter (Absolute rating 99.9%; Beta ratio=1000).
- 100% PP for compatibility with a wide range of process fluids.
- End configurations to fit all standard housings
- Certificated by USP XXIII and FDA CFR Title 21
- In compliance with the latest EC Directive for food contact.

## ► Operation conditions

- Maximum operating forward pressure:  
90°C: 1.4 kg/cm<sup>2</sup>  
60°C: 2.8 kg/cm<sup>2</sup>  
20°C: 4.9 kg/cm<sup>2</sup>
- Recommended replacement pressure drop: 2.5kg/cm<sup>2</sup>
- Maximum operating temperature: 90°C
- Sterilization: 121°C, 30min 10 times

## ► Applications of products

- Pre-filtration of membrane cartridge
- Filtration of cleaning process
- Pre-filtration of DI water filtration
- Filtration of cooling water system (PCW)
- Filtration of beer or beverage manufacture
- Filtration of medium & low viscosity chemical fluids.

## ► Product specifications

Micron ratings: Absolute rating 0.45, 1, 2, 3, 5 micron

Material of construction: 100% melt-blown micro-denier PP fiber

Support: PP fiber

Core & End Cap: High Strength PP(OD:69mm, 64mm); HDPE(OD:80mm)  
(Stainless Steel insert end cap is available for PP cage)

O-ring Material: EPDM, Buan N, Silicone, Viton, PFA encapsulated Viton

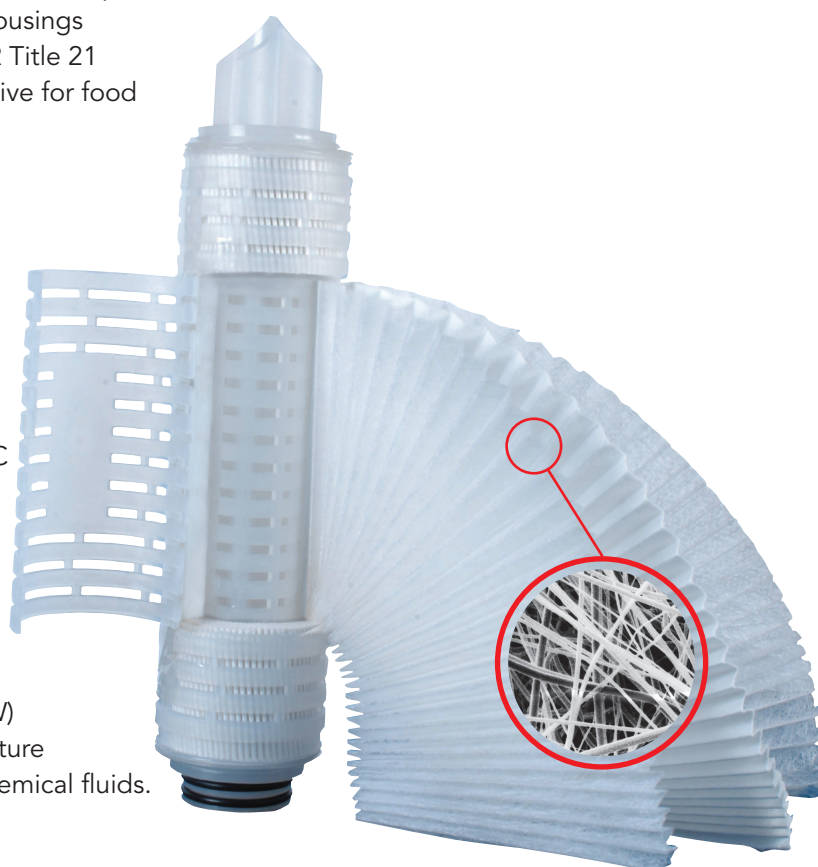
Filtration Area: Poly Ray Plus ARP 0.45 : 0.4 m<sup>2</sup> / 10" , ARP 1, 2, 3, 5 : 0.6 m<sup>2</sup> / 10"

Length: 10" , 20" , 30" , 40"

Inner Diameter: 28mm

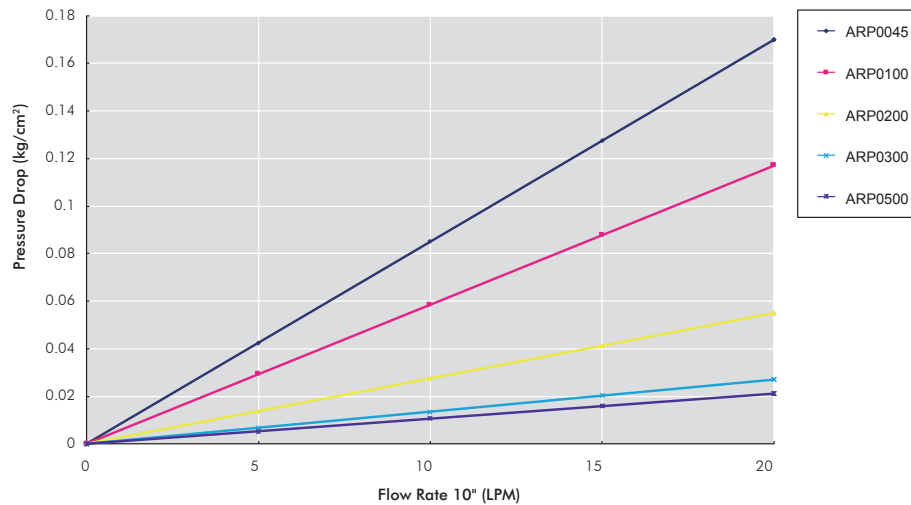
Outer Diameter: AR = 69mm(PP); E-AR = 80mm(HDPE); N-AR = 64mm(PP)

Retention Efficiency: >99.9% under multi-pass test



## Pleated Filter with Microfiber media

### ARP Initial Pressure Drop



### Suggested equivalent products

- Millipore Polygard-CN
- Pall HDC II Filter
- Pall Ultiplet Profile
- 3M Betafine D
- 3M Polypro
- Pall Poly-Fine II

## Ordering Information

