

# Product Lines

## Poly-Ray Plus Pleated Filter Cartridge with PP Microfiber media

The Poly-Ray Plus pleated filter is made of polypropylene fiber media. Poly-Ray Plus pleated filter combines exceptional solids holding capacities with precise micron ratings than depth filters. The multi-layers sheets of melt-blown media provide absolute particle retention. The Poly-Ray Plus pleated cartridge filter has high solid loading and long service life, which is also designed for membrane's pre-filtration.

### 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, TOC content is lower than 40 PPb
- Poly-Ray filter is multi-layers structure, absolute efficiency filter (Absolute rating 99.98%; Beta ratio = 5000 multi-pass test) 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 (Stainless Steel insert end cap available)

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

Filtration Area: Poly Ray Plus ARP >0.4 m<sup>2</sup> / 10"

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

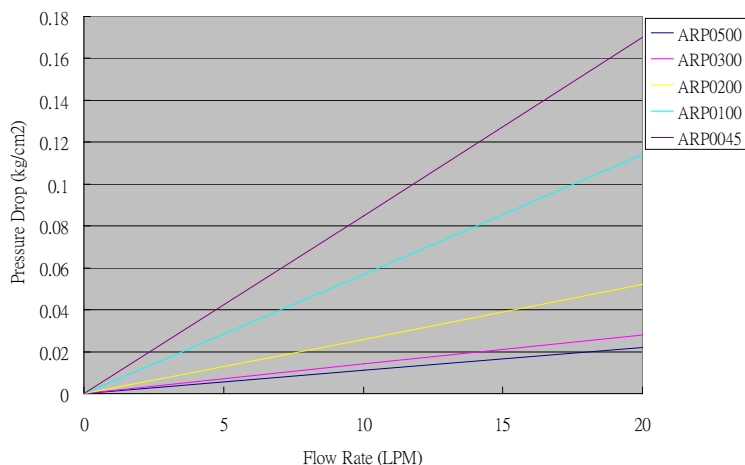
Inner Diameter: 28mm

Outer Diameter: ARP = 69mm

Retention Efficiency: >99.98% under multi-pass test

# Poly-Ray Plus Efficiency

## ARP Initial Pressure Drop



## Suggested equivalent products

- |            |                   |
|------------|-------------------|
| ■ Mykrolis | Polygard-CN       |
| ■ Pall     | HDC II Filter     |
| ■ Pall     | Ultipleat Profile |
| ■ CUNO     | Betafine D        |
| ■ CUNO     | Polypro           |
| ■ Pall     | Poly-Fine II      |

## Ordering Information

