

Ultrapolyplea® PP

Depth filter element for particle removal from aqueous solutions, water and gases with a nominal retention rate. The filter element can be used accordingly as a prefilter or final filter, especially when economical high efficiency is required.

The Donaldson® Ultrapolyplea® PP depth filter element is a pleated all-polypropylene filter with a particle retention rating extending from 0.1 µm to 30 µm. This filter element distinguishes itself with a high dirt holding capacity as well as a high flow rate.

All components fulfill FDA requirements for contact with food in accordance with CFR (Code of Federal Regulations), Title 21. Ultrapolyplea has passed the USP XX Class VI tests for plastics. The filter element is manufactured in accordance with the cGMP requirements (current Good Manufacturer Practice), has no migration of the filter medium, is non-fiber releasing, and thermally welded without use of binders or other additives. The filter element is pre-rinsed with 18 MΩ · cm water, resulting in extremely low extractables.



Ultrapolyplea PP high efficient absolute prefilter and final filter

Applications

The Donaldson Ultrapolyplea PP depth filter element is designed and developed for the following industries and applications:

- Particle removal from water
- Chemicals
- Etchants
- Biological liquids
- Pharmaceuticals
- Pesticides
- Cosmetics
- Oils
- Food and beverage
- Syrup
- Paints and dyes
- Jet printer inks
- Photolithographical liquids
- Coatings
- Saltwater, seawater
- Coolants
- Polymers
- Compressed air and other gases

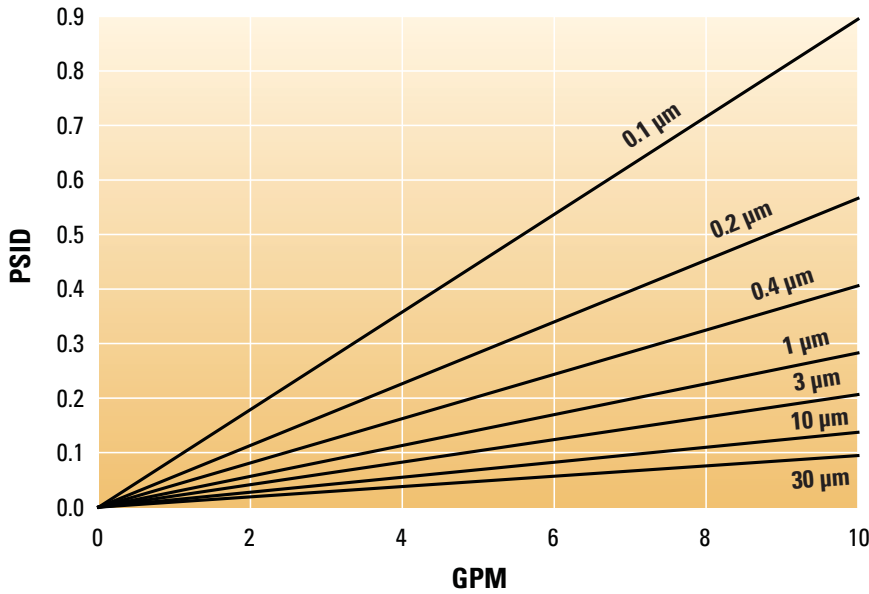
Features

Benefits

All-polypropylene construction	Wide chemical durability against numerous gases and liquids
Absolute particle removal from 0.1 µm to 30 µm	High filtration efficiency and a high dirt waste containment
Multi-layer filter media	High dirt holding capacity, long service life, high specific flow capacity, no migration of the filter media
Contains no binders or adhesives	Wide solvent compatibility, extremely low extractables, immediately rinses to 18 Mohms · cm
Self-bonded filter media	Fixed pore structure, consistent particle removal, no migration of filter media, non-fiber releasing
Large filter surface	Reduced pressure loss, high flow rates
Biologically inert and non-toxic	Meets FDA requirements for food contact, passed USP class VI biological tests for plastics

Dimensions & Specifications

PP Differential Pressure Per Ten Inch Equivalent (TIE) — Water



Materials

Filter Media:	Polypropylene
Upstream support:	Polypropylene
Downstream support:	Polypropylene
Outer guard:	Polypropylene
End Caps:	Polypropylene
O-Rings:	Silicone, Buna N, EPDM or Viton®

*Viton is a registered trademark of E.I. du Pont de Nemours and Company.

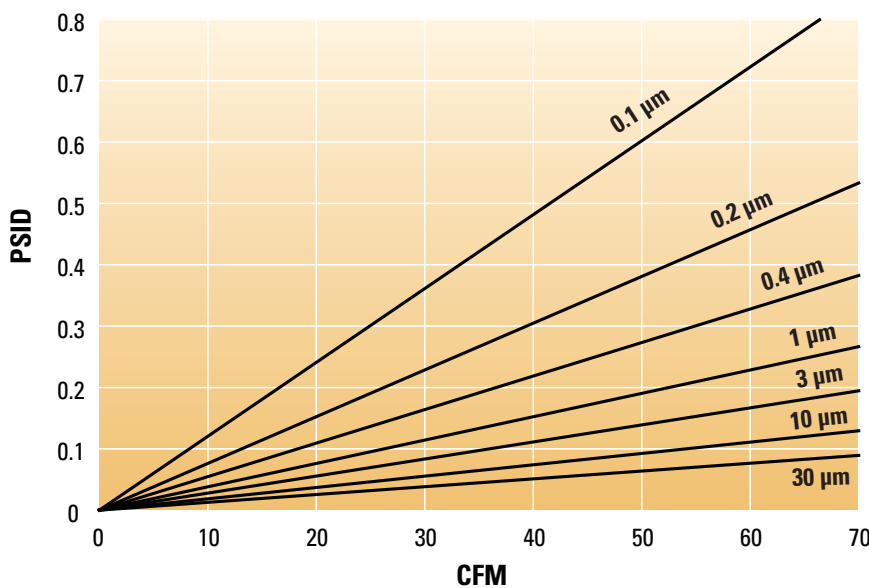
Nominal Retention Rate

0.1 μm, 0.2 μm, 0.4 μm, 1 μm, 3 μm, 5 μm, 10 μm, 30 μm

Filtration Surface

5.4 ft² for 10" element (10/30)

PP Differential Pressure Per Ten Inch Equivalent (TIE) — Air



Maximum Differential Pressure

Operating Temperature	Differential Pressure
100°F	80 psid
150°F	60 psid
180°F	30 psid

Dimensions

Diameter: 2.75"
Length: 5", 10", 20", 30" or 40"



Donaldson Company, Inc.
Process Filtration
P.O. Box 1299
Minneapolis, MN
55440-1299 U.S.A.
Tel 800.543.3634 (USA)
Tel 800.343.3639 (within Mexico)
processfilters@donaldson.com
www.donaldson.com

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