

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

Donaldson® Ultrapolyplea® PP depth filter elements are pleated all-polypropylene prefilters with a particle retention rating extending from 0.2 µm to 30 µm. This filter element distinguishes itself with a high dirt holding capacity as well as a high flow rate.

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



Ultrapolyplea PP

APPLICATIONS

Ultrapolyplea PP depth filter elements are 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 0.2 µm to 30 µm	High filtration efficiency and a high dirt waste containment
Multi-layered filter media	Higher 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 MΩ · 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

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 DuPont Performance Elastomers LLC.

DIMENSIONS

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

NOMINAL RETENTION RATE

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

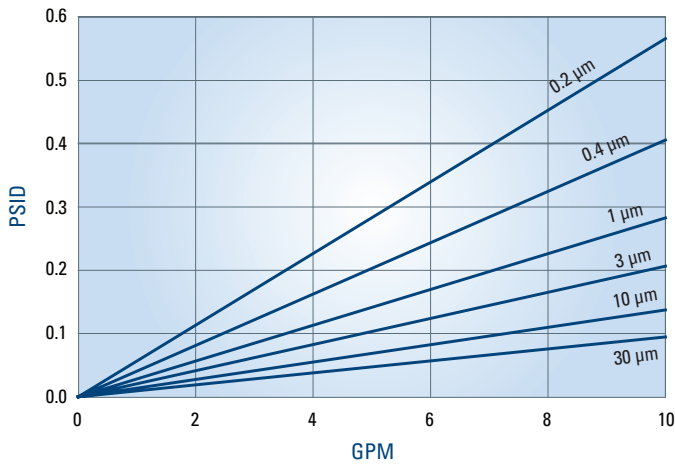
FILTRATION SURFACE

5.4 ft² for 10" element (10/30)

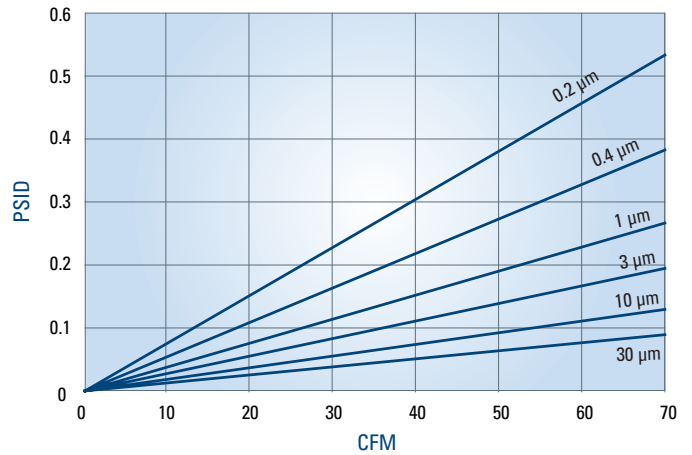
MAXIMUM DIFFERENTIAL PRESSURE

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

**PP Differential Pressure
Per Ten Inch Equivalent (TIE) – Water**



**PP Differential Pressure
Per Ten Inch Equivalent (TIE) – Air**



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