

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® PP depth filter elements are pleated all-polypropylene prefilters 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 meet the FDA requirements for contact with food in accordance with CFR (Code of Federal Regulations) Title 21. They have passed the USP Class VI biological tests for plastics and are manufactured in accordance with the cGMP requirements (current Good Manufacturing Practice), have no migration of the filter medium, are non-fiber releasing, and are 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.



**PP - NOMINAL
POLYPROPYLENE**

APPLICATIONS

PP depth filter elements are designed and developed for the following industries and applications:

- Food and beverage
- Particle removal from water
- Chemicals
- Pulp and paper
- Biological liquids
- Pharmaceuticals
- Cosmetics
- Oils
- Paints and dyes
- Photolithographical liquids
- Coatings
- Saltwater, seawater
- Coolants
- Polymers

FEATURES	BENEFITS
All-polypropylene construction	Wide chemical durability against numerous gases and liquids
Nominal particle removal from 0.1 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 flow capacity, no migration of the filter media
Contains no binders or adhesives	Wide solvent compatibility, extremely low extractables, rinsed with 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	EPDM (alternate materials available upon request)

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

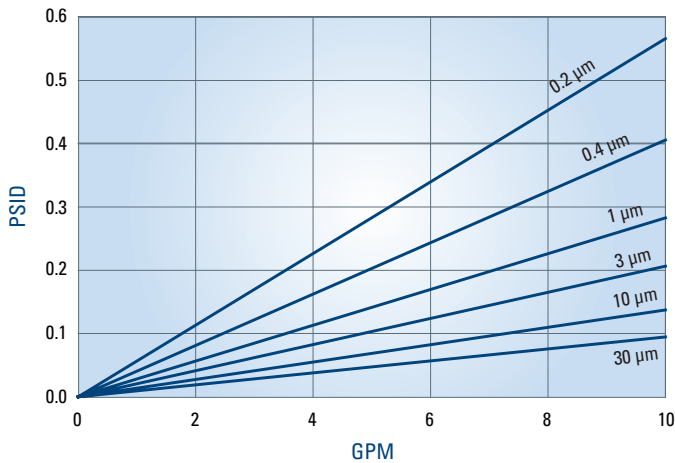
NOMINAL RETENTION RATE
0.1 µm, 0.2 µm, 0.4 µm, 1 µm, 3 µm, 5 µm, 10 µm, 30 µm

FILTRATION SURFACE
5.4 ft ² for 10" element (10/30)

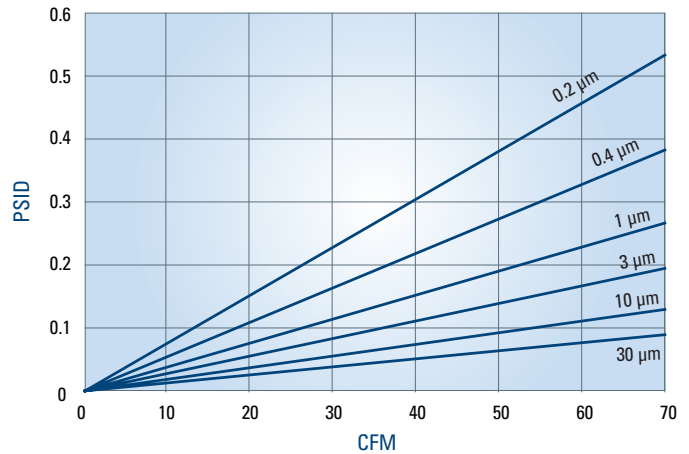
MAXIMUM DIFFERENTIAL PRESSURE	
Operating Temperature	Differential Pressure
100°F	80 psid
150°F	60 psid
180°F	30 psid

STERILIZATION	
In-line sterilization with slow speed saturated steam	250-275°F for 30-60 minutes
Autoclave	260°F for 30-60 minutes
PP depth filter elements are capable of repeated sterilization cycles	

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



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



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