



**Donaldson**  
FILTRATION SOLUTIONS

# PP100-Q

## ABSOLUTE POLYPROPYLENE FILTER ELEMENTS

Process Filtration

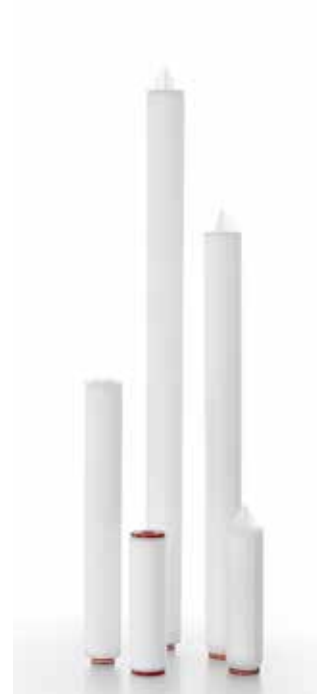
### High performance pleated polypropylene filter elements.

PP100-Q elements are manufactured in a white room for high quality and compliance with market regulations. The PP100-Q filter elements comply with FDA requirements for food contact per CFR Title 21 and all components meet USP Class VI Plastics biological reactivity tests.

These elements are produced in continuous 10-inch length increments from 10 to 40 inches long and are available in all common end cap configurations.

### APPLICATIONS

- RO pre-filters
- Process water
- Plating solutions
- Chemicals
- Waste and wastewater
- Food and beverage
- Bottled water
- Microelectronics
- Paints/inks
- Cosmetics



**PP100-Q**

FEATURES	BENEFITS
100% polypropylene construction	Wide range of chemical compatibility
Rigid, molded cage	Greater structural integrity
Gradient, fixed pore structure	Increased dirt holding capacity and resistance to unloading under high differential pressure
7.0 square feet of media surface per 10" length	High throughput and particle retention; longer service life and reduced maintenance costs

### SPECIFICATIONS

MATERIALS		NOMINAL LENGTHS	
Filter Media	Polypropylene	10", 20", 30", 40"	
Outer Cage	Polypropylene		
Core	Polypropylene		
End Caps	Polypropylene		
O-Rings	Standard: Silicone Optional: Buna, EPR, Teflon <sup>®*</sup> encapsulated Viton <sup>®**</sup>	DIMENSIONS	
		Outside Diameter	2.67"
		Inside Diameter	1.0"
		Media Surface Area	7.0 sq ft per 10" in length

\* Teflon is a registered trademark of E.I. du Pont Nemours and Company or its affiliates.  
\*\* Viton is a registered trademark of DuPont PerformanceElastomers L.L.C.

## SPECIFICATIONS

### AVAILABLE MICRON RATINGS

0.2, 0.45, 1, 3, 5, 10, 20, 30, 40, 50 microns

### MAXIMUM TEMPERATURE

176°F

### DIFFERENTIAL PRESSURE

Recommended change-out differential pressure: 35 psid

Maximum differential (collapse) pressure: 75 psid @ 70°F, 40 psid @ 176°F

### SANITATION AND STERILIZATION

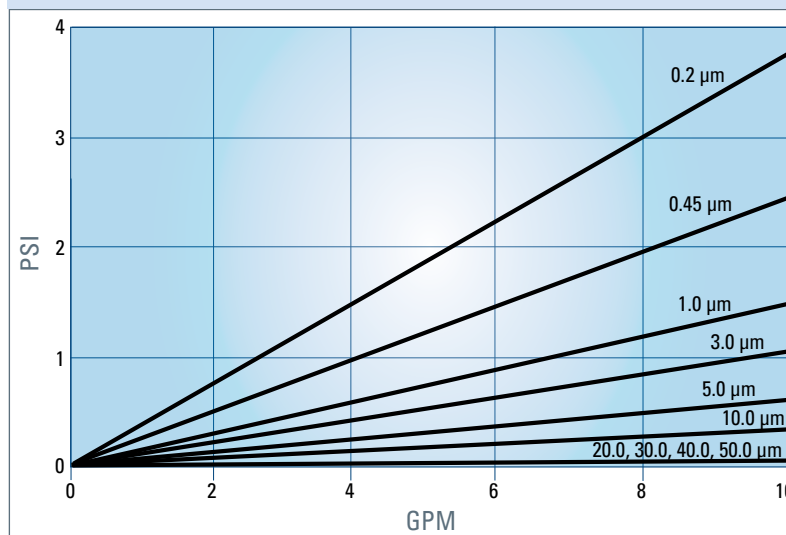
Hot water at 175°F @ 5 psid for 30 minutes

In-line steam at 257°F @ 1 psid for 30 minutes

Autoclavable at 257°F for 30 minutes

PORE SIZE	BETA 5000 99.98%	BETA 100 99%	BETA 50 98%
0.2 micron	0.20	0.10	0.05
0.45 micron	0.45	0.30	0.20
1 micron	1.0	0.65	0.35
3 micron	3.0	2.5	2.0
5 micron	5.0	4.0	3.0
10 micron	10.0	8.0	7.0
20 micron	20.0	17.0	15.0
30 micron	30.0	26.0	21.0
40 micron	40.0	34.0	28.0
50 micron	50.0	42.0	36.0

PP100-Q – FLOW CHARACTERISTIC (WATER)



This chart represents estimated pressure drop for various flow rates using a 10" element. For elements longer than 10" or assemblies using multiple elements, data can be extrapolated linearly. The chart does not account for pressure drop contributed by the housing.

Registered:



**Important Notice**

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.



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