



PP100-Q

ABSOLUTE POLYPROPYLENE FILTER ELEMENTS

fits Donaldson Housings P-FG, P-PT

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 254 mm (10") length increments from 254 mm to 1016 mm (10" to 40") long and are available in industry standard end cap configurations.

APPLICATIONS

- RO pre-filters
- Process water
- Chemicals
- Waste and wastewater
- Food and beverage
- Bottled water
- Microelectronics
- 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	254, 508, 762 or 1016 mm (10", 20", 30", or 40")	
Outer Cage	Polypropylene		
Core	Polypropylene		
End Caps	Polypropylene		
O-Rings	Standard: Silicone Optional: Buna, EPR, Teflon®* encapsulated Viton®**	DIMENSIONS	
		Outside Diameter	6.8 cm (2.67")
		Inside Diameter	2.5 cm (1.0")
		Media Surface Area	.65 m ² (7.0 ft ²) per 254 mm (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

80° C (176° F)

DIFFERENTIAL PRESSURE

Recommended change-out differential pressure:
2.41 bar (35 psid)Maximum differential (collapse) pressure:
5.2 bar @ 21° C, 2.8 bar @ 80° C
(75 psid @ 70° F, 40 psid @ 176° F)

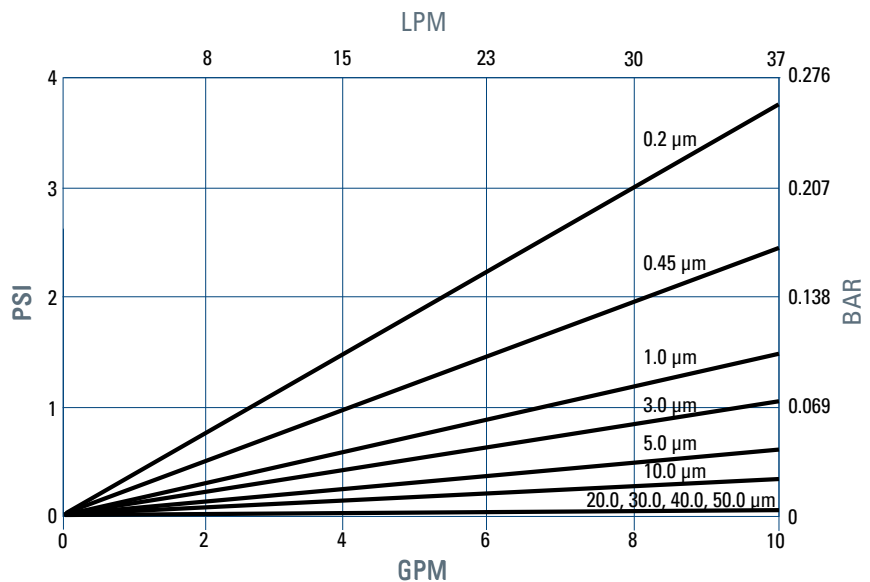
SANITATION AND STERILIZATION

Hot water at 79° C @ 0.34 bar
(175° F @ 5 psid) for 30 minutesIn-line steam at 125° C @ 0.07 bar
(257° F @ 1 psid) for 30 minutes

Autoclavable at 125° C (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 254 mm (10") element. For elements longer than 254 mm (10") or assemblies using multiple elements, data can be extrapolated linearly. The chart does not account for pressure drop contributed by the housing.

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.



Donaldson.

Donaldson Company, Inc.
Minneapolis, MN

donaldson.com
shop.donaldson.com

Australasia 61-02-4350-2066
marketing.australia@donaldson.com

Brazil 55-11-4894-6035
vendas.brasil@donaldson.com

China 86-400-921-7032
info.cn@donaldson.com

EMEA 49-2129-569-0
cap-europe@donaldson.com

India 91-124-4807-400
indiaquiries@donaldson.com

Japan 81-42-540-4123
ndl-ultrafilter-web@donaldson.com

Korea 82-2-517-3333
cap-kr@donaldson.com

Latin America 52-449-300-2442
industrialair@donaldson.com

North America 800-543-3634
processfilters@donaldson.com

South Africa 27-11-997-6000
samarketing@donaldson.com

Southeast Asia 65-6311-7373
sea.salesenquiry@donaldson.com