Donaldson
FILTRATION SOLUTIONS

PP-Q

NOMINAL POLYPROPYLENE FILTER ELEMENTS

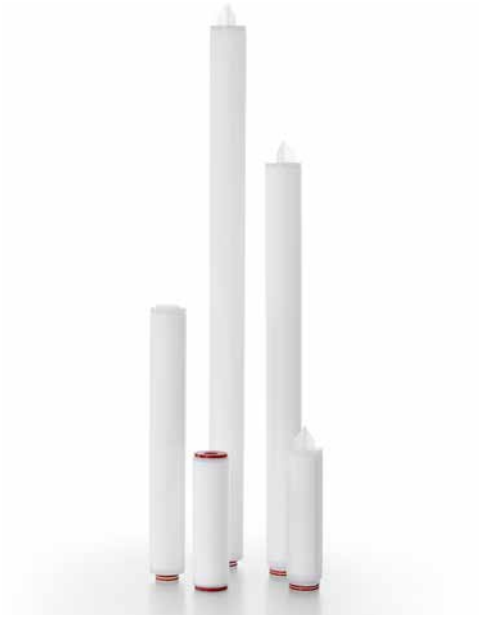
fits Donaldson Housings P-FG, P-PT

Process Filtration

Pleated polypropylene filter elements.

PP-Q elements are manufactured in a white room for high quality and compliance with market regulations. The PP-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.



PP-Q

APPLICATIONS

- RO pre-filters
- Process water
- Chemicals
- Waste and wastewater
- Food and beverage
- Bottled water
- Microelectronics
- Cosmetics

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
5.6 square feet of media surface per 10" length	High throughput and particle retention; longer service life and reduced maintenance costs

SPECIFICATIONS

MATERIALS	
Filter Media	Polypropylene
Outer Cage	Polypropylene
Core	Polypropylene
End Caps	Polypropylene
O-Rings	Standard: Silicone Optional: Buna, EPR, Teflon®* encapsulated Viton®**

NOMINAL LENGTHS
254, 508, 762 or 1016 mm (10", 20", 30", or 40")

DIMENSIONS	
Outside Diameter	6.8 cm /(2.67")
Inside Diameter	2.5 cm (1.0")
Media Surface Area	.52 m^2 (5.6 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, 0.5, 1, 3, 5, 10, 25, 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

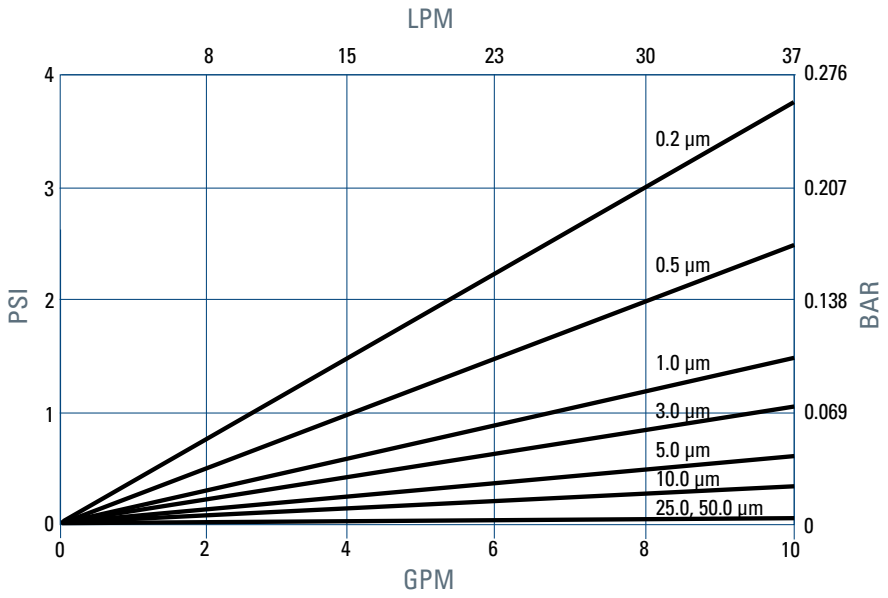
Hot water at 79° C @ 0.34 bar (175° F @ 5 psid) for 30 minutes

In-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 20 95%	BETA 10 90%
0.2 micron	0.25	0.20
0.5 micron	0.5	0.5
1 micron	1.25	1.0
3 micron	4.0	3.0
5 micron	6.5	5.0
10 micron	12.0	10.0
25 micron	28.0	25.0
50 micron	58.0	50.0

PP-Q – FLOW CHARACTERISTICS (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.

Registered: Quality Management System 9001:2008 ISO

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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