



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.

APPLICATIONS

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



PP-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 |
| 5.6 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 | .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.

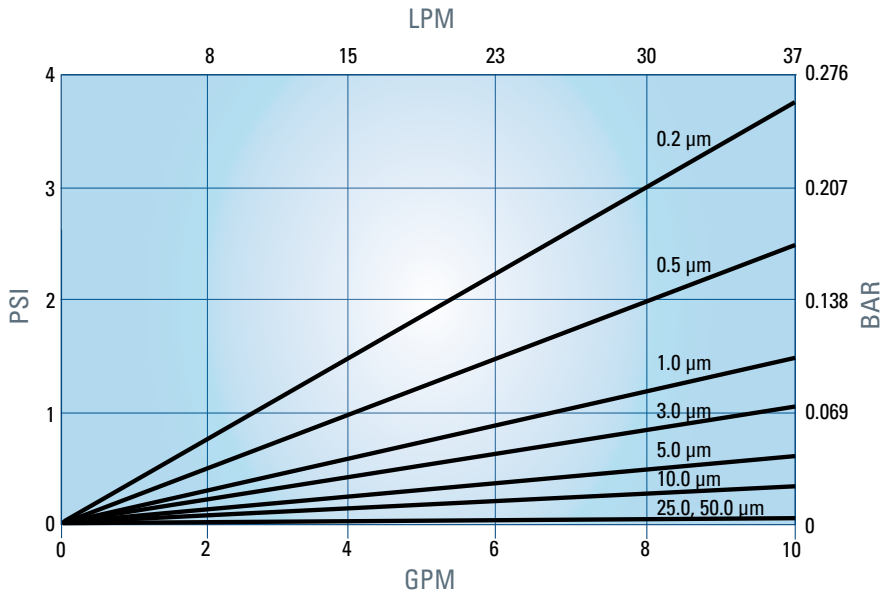
** Viton is a registered trademark of DuPont PerformanceElastomers L.L.C.

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.



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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