



MAIN FEATURES & BENEFITS

- Nominally rated depth filter developed for the cost-effective pre-filtration of liquids
- 100% polypropylene construction, minimal extractables and broad chemical compatibility
- Four layer graded density ensures low initial pressure drops and high dirt capacity for extended service life
- Approved for food contact use acc. to CFR Title 21

PRODUCT DESCRIPTION

The Donaldson PP-FC is the latest development in nominal rated spun bonded filter element design. Produced for strength and high void volume, against similarly rated elements in terms of life and cost effectiveness. The superior structure remains integral even under severe operating conditions and is less prone to the media migration and breakthrough often found on other unsupported spun bonded products.

The polypropylene fibres used are without the need for binders, resins or lubricants during the extrusion process. This results in a one-piece construction that is resistant to unloading and media shedding. True depth filtration results from the closely controlled fibre production in manufacturing, and the process environment which ensures a consistent and reliable high-quality element. All the layers are inter-linked to offer maximum support while ensuring that the high void volume is maintained, but with increasing fibre density towards the element centre. This results in true depth filtration, ideal for use as water filters, chemical filters and trap filters.

All components meet the USA requirements for food contact

use in accordance with CFR (Code of Federal Regulations) Title 21. The nominal rated PP-FC depth filter is designed and developed as pre-filter for coarse contaminations and as cost effective final filter.

INDUSTRIES



- Food



- Beverages



- Chemical



- Pharmaceutical



- Environment

PRODUCT SPECIFICATIONS

Features	Specifications
Retention rates	1µm, 5µm, 10µm, 20µm, 30µm, 50µm, 75µm, 100µm, 150µm @ 85 % retention efficiency
Recommended filter element change	1.5 bar (21.76 psi) differential pressure
Maximum differential pressure	3.5 bar (50 psi) @ 20°C (68°F) 1 bar (14.5 psi) @ 60°C (140°F) 0.5 bar (7.25 psi) @ 80°C (176°F)
Maximum operating temperature	80°C (176°F)
Steam sterilization	Not recommended

APPLICATIONS

Typical applications for PP-FC filter elements include:

Purification of Food and Beverage products:

- Water
- Mineral water
- Soft Drinks
- Beer
- Wine
- Spirits

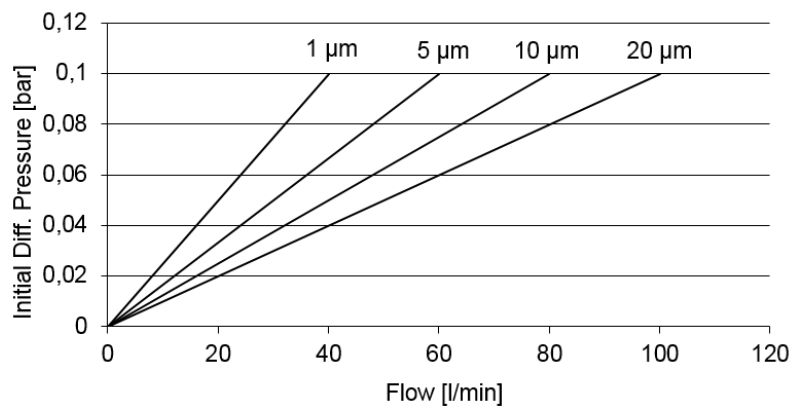
Purification of chemicals:

- Acids
- Bases
- Complexing agents
- Alcohols, Aldehydes
- Etchants
- Chlorinated and fluorinated solvents
- Esters and Ketones
- Photo-lithographic liquids

Purification of chemicals:

- Cosmetics
- Oils
- Lubricants
- Paints and dyes
- Jet printer inks

FLOW CHARACTERISTICS



MATERIAL COMPLIANCE USA

All components of the PP-FC filter element are FDA listed for food contact use in the Code of Federal Regulations (CFR), Title 21:

Materials of construction		
Filter medium	Polypropylene	§ 177.1520
End caps	Polypropylene	§ 177.1520
O-rings	EPDM	§ 177.2600

AVAILABLE END CAP CONFIGURATIONS

Dimensions DOE connection						
Size	A		B		C	
	mm	inch	mm	inch	mm	inch
5"	125	4,92	28	11,02	63	2,48
10"	250	9,84	28	11,02	63	2,48
20"	508	20	28	11,02	63	2,48
30"	762	30	28	11,02	63	2,48
40"	1016	40	28	11,02	63	2,48

DOE: Double open end



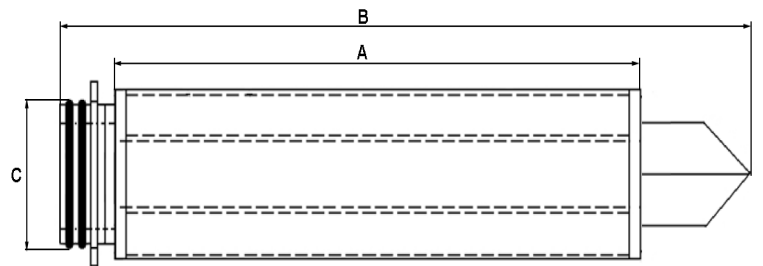
Dimensions Code 3 connection						
Size	A		B		C	
	mm	inch	mm	inch	mm	inch
5"	127	5	149	5,87	63	2,48
10"	252	9,92	274	10,79	63	2,48
20"	509	20,03	531	10,91	63	2,48
30"	763	30,03	785	30,91	63	2,48
40"	1017	40,03	1039	40,91	63	2,48

Code 3: 2 x 222 O-rings, flat end cap



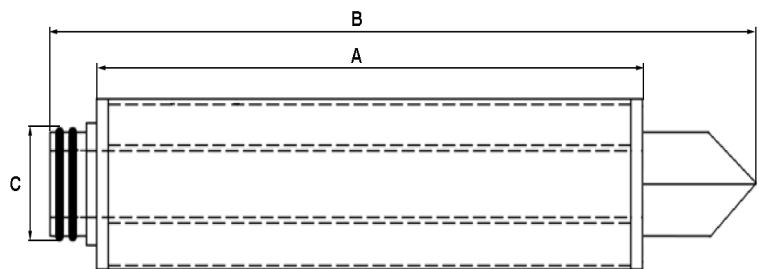
Dimensions Code 7 connection						
Size	A		B		C	
	mm	inch	mm	inch	mm	inch
5"	127	5	196	7,72	63	2,48
10"	252	9,92	321	12,64	63	2,48
20"	509	20,03	578	22,76	63	2,48
30"	763	30,03	832	32,76	63	2,48
40"	1017	40,03	1086	42,76	63	2,48

CODE 7: 2 x 226 O-rings, bayonet 2 locking tabs, locating fin



Dimensions Code 8 connection						
Size	A		B		C	
	mm	inch	mm	inch	mm	inch
5"	127	5	191	7,52	63	2,48
10"	252	9,92	316	12,44	63	2,48
20"	509	20,03	573	22,56	63	2,48
30"	763	30,03	827	32,56	63	2,48
40"	1017	40,03	1081	42,56	63	2,48

CODE 8: 2 x 222 O-rings, locating fin



Other end cap configurations on request



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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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