



EMAIL: FILTRATION@JOHNBROOKS.CA



HDC Series Filter Cartridges

Melt Blown Filters

An economical, melt blown filter element that can be used in a wide range of applications. The HDC depth filter is constructed of 100% polypropylene media for chemical compatibility with a variety of process fluids. The molded core prevents collapse even at elevated temperatures.

Product Specifications

Media: Polypropylene

End caps/Center Core: Polypropylene

Gaskets/O-Rings:

Buna-N, EPDM, Santoprene,
Silicone, Teflon Encapsulated
Viton (O-Rings only), Viton

Micron rating:

1, 3, 5, 10, 20, 30, 50, 75 µm

Dimensions

Nominal lengths:

9.75" 10" 20" 30" 40"
24.8 25.4 50.8 76.2 101.6 cm
(Other lengths available)

Outside diameter: 2.5" (6.35 cm), 2.63" (6.7 cm)

End capped

Inside diameter: 1.0" (2.54 cm)

Operating Parameters

Maximum differential pressure:

150 psid @ 68°F (10.3 bar @ 20°C)
90 psid @ 150°F (6.2 bar @ 66°C)
35 psid @ 176°F (2.4 bar @ 80°C)

Recommended change-out pressure:

35 psid (2.4 bar)

FEATURES & BENEFITS

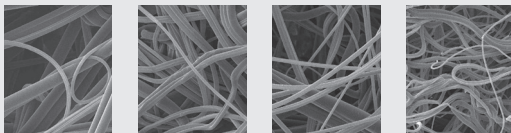
- Available in nominal ratings from 1 to 75 microns
- Molded core for excellent collapse strength
- Graded pore construction for long on-stream life
- Melt blown media resists dirt unloading as differential pressure increases
- Non-shedding
- High dirt holding capacity
- Economical depth filtration
- Thermal bonded endcaps optional
- Free of binders, adhesives and surfactants

CERTIFICATIONS

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.
- NSF 61: Certified to NSF/ANSI STD 61 for materials requirements only — Component
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

TYPICAL APPLICATIONS

- RO Prefilters
- Wastewater
- Chemicals
- Blowdown post filter
- Radwaste
- Aqueous solutions
- Inks



Outer pre-filter zone

Inner pre-filter zone

Final pre-filter zone

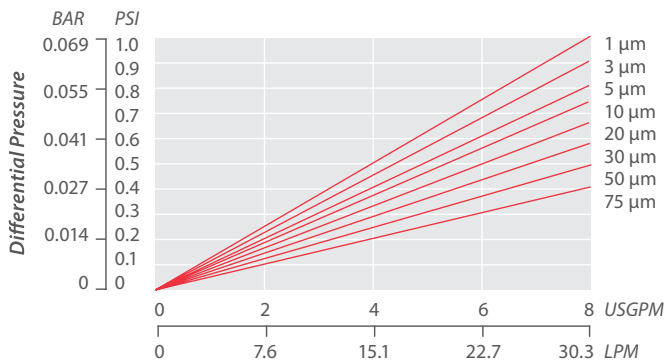
Final filtration zone

HDC NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring	
HDC Series	1	20	-5	-29.25	P	Double Open End (Hard Endcaps)	B	Buna-N
	3	30	-9.75	-30	P2	226/Flat Single Open End	E	EPDM
	5	50	-10	-39	P3	222/Flat Single Open End	N	None
	10	75	-19.5	-40	P6	Self-Seal Spring on One End	S	Silicone
			-20		P7	226/Fin Single Open End	T	Teflon encap. Viton (O-Rings only)
				P8	222/Fin Single Open End	V	Viton	
				PX	Extended Core			
				N	None (Cut Ends)			
				DBG	Direct Bond Santoprene Gaskets			
Example: HDC 10-20NN								
HDC	10		-20		N		N	

HDC FLOW RATE

Typical Flow Rate Clean Water at Ambient Temperature
(per 10" cartridge)



For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise



Certified to NSF/ANSI Standard 61 for materials requirements only.

COMPONENT



**SPRAYING
PUMPING
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AND VALVES**

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