

EMAIL: FILTRATION@JOHNBROOKS.CA



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: 0.3, 0.5 1, 3, 5, 10, 20, 30, 50, 70 µm

Dimensions

Nominal lengths:

5", 9.75", 10", 19.5", 20", 29.25", 30", 39", 40" (12.7, 24.8, 25.4, 49.5, 50.8, 74.3, 76.2, 99.1, 101.6 cm)

Outside diameter: 2.5" (6.35 cm)

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)

Steam Sterilization:

Stratum single open end style filters may be autoclaved under no end load conditions for 30 minutes at 121°C. Filters should be cooled to normal operating temperatures prior to use.







Outer prefilter zone

Inner prefilter zone

Final pre-Final filtra tion zone

filter zone

HDA Series Filter Cartridges

Absolute Rated Melt Blown Filters

HDA Series melt blown depth filters deliver 99.9% efficiency at the stated micron for the most demanding applications. By utilizing ultra fine fibers and controlled thermal bonding, the HDA Series retains captured contaminant even at higher differential pressures.

FEATURES & BENEFITS

- Absolute retention ratings from 0.3 to 70 microns
- Multi-zone melt blown depth filter with a graded pore structure for maximum dirt holding capacity
- Thermally bonded fibers for high void volume and long on-stream life
- · Lot traceable filters come with certificate of conformance
- 100% pure virgin polypropylene
- Molded center core for higher temperature and pressure capability
- Free of surfactants, binders and adhesives

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

- Chemicals
- Pharmaceuticals
- Paint/Inks
- Food and beverages
- Cosmetics

Plating

- CMP Slurry
- Microelectronics

Water

HDA NOMENCLATURE INFORMATION									
Product Series	Retentior (microns)	n Rating	ng Nominal Length (inches)		End Configuration		Gasket or O-Ring		
HDA	0.3	10	-5	-29.25	Р	Double Open End (Hard Endcaps)	В	Buna-N	
Series	0.5	20	-9.75	-30	P2	226/Flat Single Open End	Е	EPDM	
	1	30	-10	-39	P3	222/Flat Single Open End	Ν	None	
	3	50	-19.5	-40	P6	Self-Seal Spring on One End	S	Silicone	
	5 70	70	-20		P7	226/Fin Single Open End	т v	Teflon encap. Viton (O-Rings only) Viton	
					P8	222/Fin Single Open End			
					РХ	Extended Core			
					N	None (Cut Ends)			
					DBG	Direct Bond Santoprene Gaskets			
Example: HDA 0.5–30NN					AM	Single Open End, Internal O-Ring			
HDA	0.5		-30		Ν		Ν		

HDA FLOW RATE



The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters.

Testing was conducted using the single-pass test method, water

at 3 gpm/10" cartridge. Contaminants included latex beads, coarse

and fine test dust. Removal efficiencies were determined using dual

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

REMOVAL EFFICIENCY

Beta Ratio Efficiency	Beta 1000 99.9%	Beta 100 99%	Beta 10 90%
0.3 μm	0.5	0.4	0.3
0.5 μm	0.6	0.5	0.4
1 µm	1.0	0.8	0.5
3 µm	3.0	2.3	1.4
5 µm	5.0	4.0	2.7
10 µm	10.0	7.0	4.0
20 µm	20.0	15.0	12.0
30 µm	30.0	20.0	14.0
50 µm	50.0	34.0	25.0
70 µm	70.0	50.0	39.0

Beta Ratio =

Upstream particle counts Downstream particle counts



1-877-624-5757 www.johnbrooks.ca

laser source particle counters.