

EMAIL: FILTRATION@JOHNBROOKS.CA



Product Specifications

Media: Thermally bonded Polypropylene/polyethylene fiber

End Caps: Polypropylene (when used)

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

Micron rating: 0.5, 1, 3, 5, 10, 25 μm

Dimensions

 Sominal lengths:

 5"
 9.75"
 10"
 20"
 30"
 40"

 12.7
 24.8
 25.4
 50.8
 76.2
 101.6 cm

 Outside diameter:
 2.6"
 (6.5 cm)

 Inside diameter:
 1.0"
 (2.54 cm)

Operating Parameters

Maximum operating temperature: 140 °F (60°C)

Maximum differential pressure: 100 psid @ 70°F (7 bar @ 21°C) 2 psid @ 176°F (0.14 bar @ 80°C)

Recommended change-out pressure: 35 psid (2.4 bar)

HDX Series Filter Cartridges

Two Stage Depth Filter Cartridge

The HDX Depth Filter cartridge is an integral two stage depth filter. The first is made of nonwoven melt blown polypropylene to trap coarser particles. The second stage is composed of a bicomponent polypropylene and polyethylene fiber to provide fine particle retention. This unique design provide a true graded, two zone structure that offers a marked increase in useful life and dirt capacity. In addition, the rigid nature means there is no flexing of the cartridge and greatly reducing media migration and particle unloading.

FEATURES & BENEFITS

- Two stage depth filter
- Maximum dirt holding and useful life
- · Inert pure polyolefin construction, non-shedding media
- Broad chemical compatibility
- Low extractables
- Extensive range of lengths and configurations
- Rigid construction resists unloading

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.

TYPICAL APPLICATIONS

- Paint
- CMP Slurries
- Perfumes
- Magnetic Slurries
- Cutting Oils

Corn Syrup

PERFORMANCE SPECIFICATIONS

- Sanitization:
 - Hot water at 176°F (80°C) at 5 psid (0.35 bar) for 30 min
 - In-line steam at 257°F (125°C) at 1 psid (0.07 bar) for 30 min
 - Autoclavable at 257°F (125°C) for 30 min

- Plating Solutions
- Pre R.O.
- Coatings

HDX NOMENCLATURE INFORMATION										
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring			
HDX	0.5	5	-5	-20	Р	Double Open End (Hard Endcaps)	В	Buna-N		
Series	1	10	-9.75	-30	P2	226/Flat Single Open End	Е	EPDM		
	3	25	-10	-40	P3	222/Flat Single Open End	Ν	None		
					P6	Self-Seal Spring on One End	S	Silicone		
					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				
					AM	Single Open End, Internal O-Ring				
Example: HDX 25–40P3B										
HDX	25		-40		P3		В			



RE	MOVAL EF	FICIENC	Y
Beta Ratio Efficiency	Beta 100 99%	Beta 20 95%	Beta 10 90%
0.5 μm	4.0	2.0	0.5
1 µm	8.0	3.0	1.0
3 µm	12.0	5.0	3.0
5 µm	20.0	8.0	5.0
10 µm	30.0	13.0	10.0
20 µm	50.0	30.0	25.0

Beta Ratio =

Upstream particle counts Downstream particle counts

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