



Graver Technologies

FILTRATION | SEPARATION | PURIFICATION



COAX[®] Series Filter Cartridges

Two Stage Depth Filter Cartridge

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:

1, 3, 5, 10, 25 µm

Dimensions

Nominal 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)

The COAX Depth Filter cartridge is an integral two stage depth filter. The first stage 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 provides 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
- Plating Solutions
- Perfumes
- Magnetic Slurries
- Pre R.O.
- Cutting Oils
- Corn Syrup
- Coatings

PERFORMANCE SPECIFICATIONS

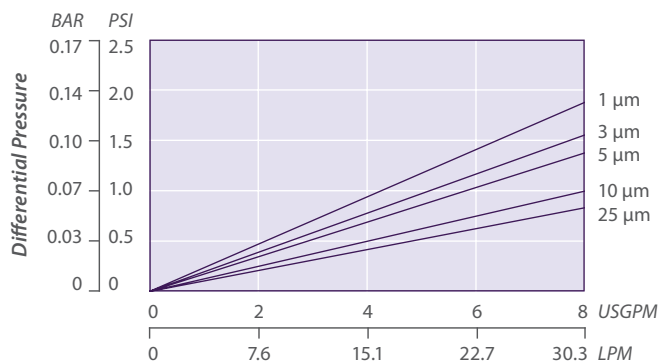
- Sanitization:
 - Hot water at 176°F (80°C) at 5 psid (0.35 bar) for 30 min
 - In-line steam at 257°F (125°C) at 1 psid (0.07 bar) for 30 min
 - Autoclavable at 257°F (125°C) for 30 min

COAX NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
COAX Series	1	10	-5	-20	P Double Open End (Hard Endcaps)	B Buna-N
	3	25	-9.75	-30	P2 226/Flat Single Open End	E EPDM
	5		-10	-40	P3 222/Flat Single Open End	N None
					P7 226/Fin Single Open End	S Silicone
					P8 222/Fin Single Open End	T Teflon
					PX Extended Core	encap. Viton (O-Rings only)*
					N None	
					AM Single Open End, Internal O-Ring	V Viton
Example: COAX 25-40P3B						
COAX	25		-40		P3	B

COAX 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

REMOVAL EFFICIENCY

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
25 µm	50.0	30.0	25.0

$$\text{Beta Ratio} = \frac{\text{Upstream particle counts}}{\text{Downstream particle counts}}$$

FOR MORE INFORMATION

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