Graver Technologies

Filtration | Separation | Purification

COAX™ Melt Blown Filter Series

Two Stage Depth Filter Cartridge

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 inner core is composed of a bicomponent polypropylene and polyethylene fiber to provide fine particle retention. This unique design provides a true graded density 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.

Filter Features–Benefits

- Two stage graded density melt blown depth filter Maximizes dirt holding and useful life
- Inert pure polyolefin construction, non-shedding media
- Broad chemical compatibility
- Low extractables
- Meets USP Class VI standards – Acceptable for use in food, beverage and pharmaceutical applications
- Extensive range of lengths and configurations
- FDA listed materials of construction

Applications

- Paint
- CMP Slurries
- Plating Solutions
- Perfumes
- Magnetic Slurries
- Pre R.O.
- Cutting Oils
- Corn Syrup
- Coatings

COAX Filter Specifications

Media:	*Thermally bonded Polypropylene/polyethylene fiber*
End caps:	*Polypropylene (when used)*
Gaskets/O-Rings:	*Silicone, Viton, EPDM, Buna-N*
Micron ratings:	*0.5, 1, 3, 5, 10, 25, 50, 100, 150µm*
Dimensions and Operating Parameters	
Nominal lengths:	*9.75", 10", 20", 30", 40" (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)*
Maximum operating temperature:	*140°F (60°C)*
Maximum operating pressure:	*100 psid @ 70°F (7 bar @ 21°C) 2 psid @ 176°F (0.14 bar @ 80°C)*

Filter Removal Efficiency

Beta Ratio Efficiency	*Beta 100 99%*	*Beta 20 95%*	*Beta 10 90%*
0.5 micron	*4.0*	*2.0*	*0.5*
1.0 micron	*8.0*	*3.0*	*1.0*
3.0 micron	*12.0*	*5.0*	*3.0*
5.0 micron	*20.0*	*8.0*	*5.0*
10.0 micron	*30.0*	*13.0*	*10.0*
25.0 micron	*50.0*	*30.0*	*25.0*
50.0 micron	*100.0*	*60.0*	*50.0*
100.0 micron	*200.0*	*125.0*	*100.0*
150.0 micron	*250.0*	*200.0*	*150.0*

Performance Specifications

Sanitization

Hot water at 176°F (80°C) at 5 psid (0.35 bar) for 30 min. Autoclavable at 257°F (125°C) for 30 min. (Basic DOE configuration)

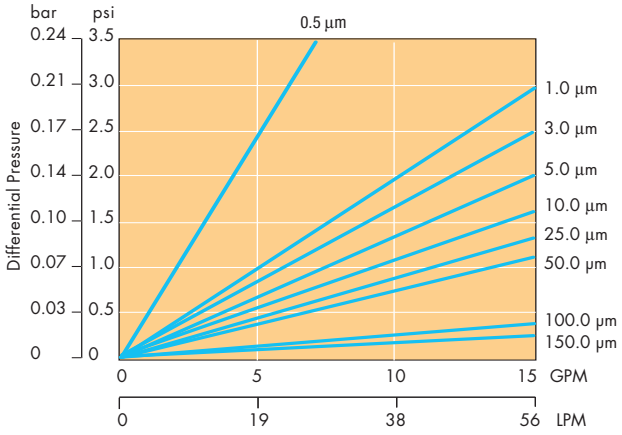
COAX Nomenclature Information

COAX	25	-40	RL	P3	B
Filter Type COAX Series Filters	**Retention Rating (microns)** **0.5** **1** **3** **5** **10** **25** **50** **100** **150**	**Nominal Length (inches)** **-10** **-20** **-30** **-40**	**Length Option** **Blank** Standard length **RL** Reduced length	**End Configuration** **P** Double Open End (hard end caps) **P2** 226/Flat Single Open End **P3** 222/Flat Single Open End **P6** Self-Seal Spring on One End **P7** 226/Fin Single Open End **P8** 222/Fin Single Open End **N** None **PX** Extended Core **AM** Single open end, internal O-Ring	**Gasket or O-Ring** **S** Silicone **B** Buna-N **E** EPDM **V** Viton **T** Teflon encap. Viton (O-Rings only) **N** None

Example: COAX 25-40RL P3B

COAX FLOW RATE

Water at Ambient Temperature (per 10'' cartridge)



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