

MAHLE

Industry

Cartridge Filters amaFlow M Series

High Surface Area Pleated Cartridges to Retrofit Bag Filter Housings

Request a Quote Today!

1. Introduction

The amaFlow M series cartridge filter will replace or retrofit most bag filter housings to obtain a higher contaminant loading capacity. These pleated filter cartridges will fit most #1 Size and #2 Size bag filter housings. Cartridges are FDA approved for contact with food in Title 21 of the U.S. Code of Federal Regulations.

Features

- High flow and high contaminant holding capacity
- Proprietary filter media delivers highly consistent performance
- 2 cartridge types available:
 - Proprietary Melt Blown Pleated Polypropylene
 - High Efficiency Pleated Depth Polypropylene
- Fixed pore construction resists contaminant unloading at maximum differential pressure
- Inside-out flow traps dirt inside the cartridge, eliminating downstream contamination
- Available to fit most #1 Size and #2 Size bag housings with no hardware changes
- Innovative sealing device adjusts to fit most bag filter housings
- Constructed of Polypropylene which is inert to many process fluids, ensuring a wide chemical compatibility
- Short length option to accommodate shorter baskets
- Manufactured in a Class 1,000 clean room
- Manufactured under ISO 9001 quality specifications



2. Product Specifications

Materials of Construction:

- Filter Media: M-TP = Proprietary Melt Blown Pleated Polypropylene
M-DP = High Efficiency Pleated Depth Polypropylene
- Hardware: Polypropylene
- Sealing: Thermal Bond
- Support Material: Polypropylene
- Seal: EPDM, Viton

Dimensions (nominal):

- Outside Diameter: 6 inches O.D.
- Available Lengths: #1 Size: 10.827 inches, standard
#2 Size: 25.197 inches, standard

3. Performance Specifications

Retention Ratings:

- M-TP: 1, 3, 5, 10, 20, 40, 70, 100 micron
- M-DP: 1, 3, 5, 10, 20, 40, micron absolute

Maximum Operating Differential Pressure:

- 75 psid at 68 °F
- 35 psid at 165 °F

Recommended Change Out Differential Pressure:

- 35 psid, up to 130 °F

All polypropylene components meet the specifications for biological safety as per the USP for Class VI (at 250 °F) for plastics (gaskets and o-rings excluded).

Cartridges do not use surfacants, binders or adhesives.

4. Flow Rate vs. Initial Clean Pressure Drop

Micron Rating	M-TP Filter Cartridges		M-DP Filter Cartridges	
	#1 Size Initial Pressure Drop (psid/gpm)/(mbar/lpm)	#2 Size Initial Pressure Drop (psid/gpm)/(mbar/lpm)	#1 Size Initial Pressure Drop (psid/gpm)/(mbar/lpm)	#2 Size Initial Pressure Drop (psid/gpm)/(mbar/lpm)
1	0.044/0.801	0.022/0.401	0.051/0.928	0.022/0.401
3	0.018/0.328	0.009/0.164	0.020/0.364	0.009/0.164
5	0.008/0.146	0.004/0.073	0.012/0.218	0.005/0.091
10	0.007/0.127	0.002/0.036	0.008/0.146	0.003/0.055
20	0.003/0.055	0.001/0.0182	0.005/0.091	0.002/0.036
40	0.001/0.018	0.001/0.0182	0.004/0.073	0.002/0.036
70	0.001/0.018	0.001/0.0182	N/A	N/A
100	0.001/0.018	0.001/0.0182	N/A	N/A

5. Typical Model Number

M	TP	5	P1	P	E
Product Series	Material	Micron Rating	Cartridge Size	Flange	Seal Material
amaFlow M	TP = PP Pleated DP = Depth PP	1, 3, 5, 10, 20, 40, 70*, 100*	P1 = 01 P2 = 02 P2S = size 2 short	P = Standard Flange (PP)	E = EPDM V = Viton

* M-TP Only



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