

MAHLE

Industrial Filtration

Filter bag
amaFlow High efficiency

1. Introduction

For a wide number of filtration applications amaFlow filter bags are a simple, easy to use and economical choice. We supply a wide range of filter bags and bag filter housings.

The absolute rated amaFlow high efficiency filter bags are mainly used for the demanding high end of bag filter applications. MAHLE Industrial Filtration bag filters are excellent for use in the filtration of liquids containing higher concentrations of coarse solids. They are particularly beneficial when handling batches of (various) liquids. They are also especially suitable for end filtration or polishing of liquids with extremely low concentrations of solids.



2. Features

- These bags have defined efficiencies (absolute rated).
- Materials used comply with FDA requirements for food and beverage contact and are free of silicones.
- The standard amaFlow filter bags are sized to fit into our baskets and housings, but will also fit into most other housings.

4. Sealing systems

In order for bag filters to function properly, especially with smaller pore sizes, a good seal between bag and support basket is of great importance. For this reason we have two options:

- The Snap-Collar; a felt-covered metal or plastic ring which clicks neatly into the upper collar of the support basket. The felt serves as the sealing.
- The plastic flange (with handles) which tightly fits into our standard baskets.

3. Description

- All amaFlow HPM bags incorporate unique graduated layering of media: starting with a built-in pre-filter inner layer and progressing to the tighter microfibre outer layers.
- The particles are systematically removed as fluid travels through multiple layers with each individual layer performing a special function.
- This graduated layering design aids in the prevention of premature blinding which causes unnecessary filter change out.
- All amaFlow HPM filter bags have superior dirt holding capacity.
- The amaFlow SPMF bags have a different layout, starting with a needled felt followed by two microfibre layers.

Types

- The amaFlow HPM bags are high efficiency filter bags.
All amaFlow HPM filter bags have the unique graduated layering of filtration media. The range comes in four efficiency ranges: 92 %, 95 %, 97% and 99 % and in five micron ratings: 1, 3.5, 5, 10 and 25 µm.
- The amaFlow SPMF microfibre filter bags have an efficiency of 95 % and are available in five micron ratings: 1, 2, 5, 10 and 25 µm.

The amaFlow filter bags seal with either a Snap-Collar seal comprising of either carbon steel, stainless steel or polypropylene or with a plastic seal ring in polypropylene.

5. Temperature and chemical resistance

Filter bag grade	HPM/SPMF polypropylene	
<i>Max. temperature [°C]</i>	100	
resistance to:		+++ = excellent ++ = good + = fair - = not recommended
inorganic acids	++	
organic acids	+++	
alkalines	++	
oxidising agents	+	
solvents	++	
vegetable/animal oils	+++	
micro-organisms	+++	

6. Order code

Example

<i>amaFlow HPM97</i>		01	2	SS
Grade				
HPM92	: 92%			
HPM95	: 95%			
HPM97	: 97%			
HPM99	: 99%			
SPMF	: 95%			
Micron rating [μm]				
<i>HPM</i>	<i>SPMF</i>			
01 = 1	1A = 1			
03 = 3.5	2A = 2			
05 = 5	5A = 5			
10 = 10	10A = 10			
25 = 25	25A = 25			
Finish				
<i>HPM</i>	<i>SPMF</i>			
-	P			
Bag dimensions				
1 = size 1 (\varnothing 178 x 432 mm)				
2 = size 2 (\varnothing 178 x 787 mm)				
Ring/seal				
S = carbon steel ring (Snap-Collar)				
SS = stainless steel AISI 304 ring (Snap-Collar)				
PO = polypropylene ring (Snap-Collar)				
P = polypropylene flange (HPM92 and SPMF only)				

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