

Filter element

amaFlow M-AP and M-SP elements for bag filter housings

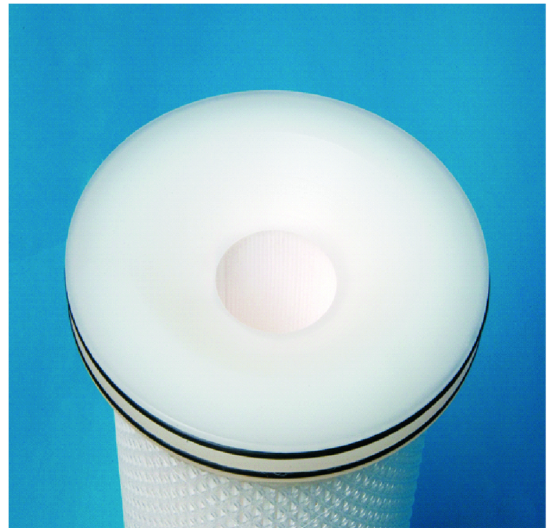
1. Introduction

The amaFlow M-AP and M-SP filter elements have been developed from the extensive amaFlow filter bag range to achieve longer service life in combination with the many advantages of filter bags, such as easy change-out and keeping contaminants on the inside of the element.

These elements use a pleated polyester or polypropylene needled felt filter material. This results in a filter element suitable for a wide range of applications.

The pleated filter elements have a 7" diameter flange which will retrofit fit into most filter bag housings, replacing filter bags or similar elements. The increased surface area results in much lower pressure drops and longer filtration life.

The amaFlow M-AP and M-SP have polypropylene hardware construction, the cage is available in polypropylene or resin bonded polyester depending on requirements. The surface area is approximately 5 times greater when compared to a standard filter bag.



2. Features

- Elements are quick and easy to change-out.
- Inside-out flow keeps contaminants enclosed in the element.
- Elements are silicone free and are produced in a silicone free environment.
- Materials used comply with FDA requirements for food and beverage contact. Only the “industrial” element with the resin bonded cage [B] is not food grade.
- Elements will retrofit into most bag filter housings without modification.

3. Product/Performance specifications

Filter medium	: polyester needled felt (AP) polypropylene needled felt (SP)
Support medium	: polypropylene (AP only)
Hardware	: polypropylene
Outer cage	: polypropylene (C) resin bonded polyester (B)
Thermally bonded end caps	
O-rings	: Buna-N, EPDM, silicone, Viton®, PTFE encapsulated Viton®

Dimensions

External diameter	: 152 mm
Length	: see ordering information
Filtration area	: 1.1 m ² / size 1 element 2.1 m ² / size 2 element

Maximum recommended differential pressure

Operating	: 1.7 bar at 25 °C
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Maximum operating temperature

65 °C

4. Food safety

Food safety

The filter elements comply with the requirements of the ‘Food and Drug Administration (FDA)’ title 21 of the “Code of Federal Regulations” 177.1520.

Extractable substances

The elements are free of surfactants, lubricants, antistatic agents, binders and adhesives. This does not apply to element with resin bonded cage.

5. Order code

Example

	<i>amaFlow M-AP</i>	10	P2	B	P	
Element type	M-AP = polyester needled felt M-SP = polypropylene needled felt					
Micron rating [µm]	AP: 0.8, 1, 5, 10, 25, 50, 75, 100, 200 SP: 0.8, 1, 5, 10, 25, 50, 75, 100, 200					
Nominal length	P1 = size 1 (14" / 356 mm) P2 = size 2 (26" / 660 mm)					
Cage design	B = resin bonded felt cage C = polypropylene cage (food grade)					
Flange style	P = universal plastic flange D1 = single 261 O-ring					
O-ring material	N = Buna N (standard) S = silicone (food grade) F = PTFE encapsulated Viton®		E = EPDM (food grade) V = Viton®			