

Filter housing Bag filter AFZ ATEX

1. Introduction

For a wide number of filtration applications bag filters are a simple, easy to use and economical choice. MAHLE Industrial Filtration supplies a wide range of filter bags and bag filter housings. These ATEX bag filter housings can be used within the specified explosive atmospheres. The AFZ ATEX housings conform to PED 97/23/EC category II / III.

Our 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

- Easy to use, good interior sealing and accessibility.
- Available for size 1 and size 2 filter bags.
- Filter completely manufactured from stainless steel with flanged connections.
- Suitable to filtrate hazardous and non-hazardous liquids and gaseous media as classified in medium Group I, article 9, paragraph 1 of the PED 97/23/EC directive.
- Cover closing with hinged eye bolts and eye nuts (stainless steel). Designed with special devices on the eye bolts preventing them from falling onto the housing.
- Flat cover with handle and special hinge device for ATEX safe opening and closing. Earthing connection between cover and body.
- Earthing lug on leg.
- CE and ATEX name plates.
- O#ring sealing: standard Buna-N. Other materials on request.
- Strong stainless metal mesh support basket for low flow resistance and maximum utilisation of entire surface area.
- Slightly conical support basket for easy filter bag removal.
- Liquid displacement cover: no liquid runs over the side when opening the filter.
- Liquid displacer units are available to further reduce the dead volume inside the filter bags.
- Perfect sealing between unfiltered liquid and filtered liquid is achieved by a spring-loaded hold-down device onto the filter bag and support basket. The filter bag seals with a felt-covered Snap-Collar ring or plastic seal which tightly fits into the support basket.
- Height-adjustable legs.

4. Filter bags

MAHLE Industrial Filtration supplies a wide range of filter bags in different materials, pore sizes, dimensions and models to fit in our amafilter housings as well as those of other manufacturers. For detailed information about amaFlow filter bags, please see respective Data Sheets.

3. Standard specifications

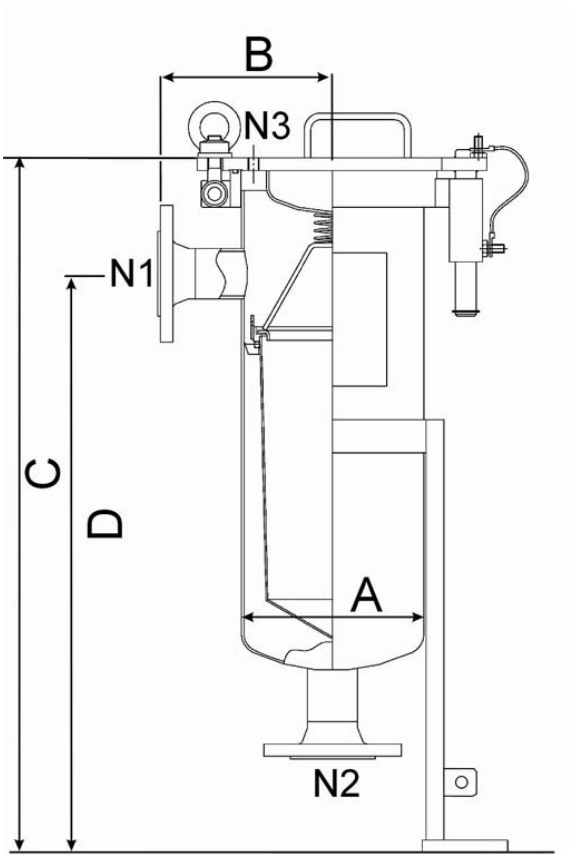
Design pressure	: -1 / 10 bar(g)
Design temperature	: -10 / 150 °C (ATEX 135 °C)
Operating temperature	: depending on the filter media and gaskets used
Design	: AD-2000 Regelwerk
ATEX	: EX II 2G T4
Approval	: PED 97/23/EC cat. II/III
Maximum differential pressure	
design	: 4.0 bar
operating	: 2.5 bar

5. Options

Steam jacket
Available on request

Strainer baskets
The filter housings can be equipped with stainless steel filter baskets in several mesh sizes. The filter housings can then be used as strainers.

6. Dimensions



Nozzle specification	
N1 :	Inlet (EN1092/PN16)
N2 :	Outlet (EN1092/PN16)
N3 :	Vent (Rp ¼ - ISO7-1)

Dimensions						
Size	Diameter [mm] A	Standout [mm] B	Height [mm] C	Nozze height [mm] D	Volume [dm³]	Weight [kg]
90	219	210	max. 1020	max. 895	21	32
180	219	210	max. 1370	max. 1245	34	38 / 41 / 43*

*Depending on flange size

Dimensions are for reference only. Use dimensional drawing for installation purposes.

Subject to technical alteration without prior notice.

7. Ordering code

Example

amafilter type AFZ	180	T	2F	EX
Size 90 = for bag size 1 180 = for bag size 2				
Material T = 316Ti (1.4571)				
Inlet/outlet 2F = DN50 acc. EN1092/PN16 <i>Size 180 only</i> 3F = DN80 acc. EN1092/PN16 4F = DN100 acc. EN1092/PN16 ASME 150 lbs RF on request (FA)				
ATEX EX=Ex II 2G T4				

MAHLE

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