

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.

The AFZ bag filter housings are available for size 1 and size 2 filter bags and completely manufactured from stainless steel with flanged connections. The AFZ 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.
- 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).
- Flat cover with hinge and handle.
- 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 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
Operating temperature	: depending on the filter media and gaskets used
Design	: AD-2000 Regelwerk
Approval	: PED 97/23/EC cat. II/III
Maximum differential pressure	
design	: 4.0 bar
operating	: 2.5 bar

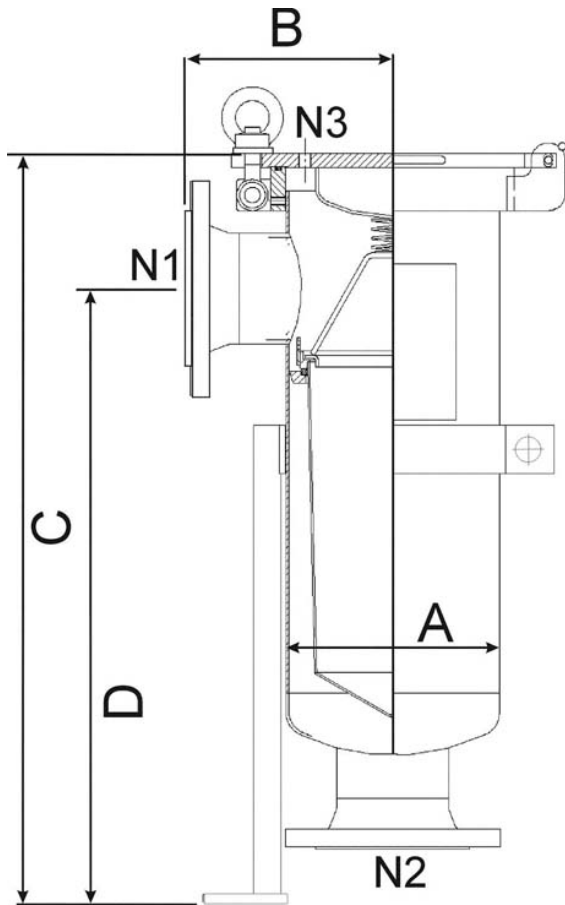
5. Options

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.

Special models to suit customer requirements
Other options of supply and manufacture are non-standard types for higher temperatures, pressures and other materials according to current design codes, available on request.

6. Dimensions



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

Dimensions						
Size	Diameter [mm] A	Standout [mm] B	Height [mm] C	Nozze height [mm] D	Volume [dm ³]	Weight [kg]
90	219	210	max. 1020	max. 895	21	max. 33
180	219	210	max. 1370	max. 1245	34	max. 43

Dimensions are for reference only. Use dimensional drawing for installation purposes.
Subject to technical alteration without prior notice.

7. Ordering code

Example

AFZ 180 T 2F

Type

AFZ

Size

90 = for bag size 1

180 = for bag size 2

Material

T = 316Ti (1.4571)

Inlet/outlet

2F = DN50 acc. EN1092/PN16

Size 180 only

3F = DN80 acc. EN1092/PN16

4F = DN100 acc. EN1092/PN16

ASME 150 lbs RF on request (FA)

MAHLE

Industry

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