

### Filter housing Cartridge filter AFK6-24 ATEX

#### 1. Introduction

A multi-cartridge housing suitable for medium flow.  
These AFK filter housings conform to PED 97/23/EC category II / III.  
This ATEX cartridge filter housing can be used within the specified explosive atmospheres.

#### ATEX

This cartridge filter housing is certified to conform to Ex II 2G T4 as described in directive 94/9/EC. The Ex marking indicates industrial equipment category 2 suitable for gases, vapours and mists with a maximum surface temperature of 135 °C.

This filter is suitable for an explosive atmosphere caused by gases, vapours and mists that occasionally occurs, this is zone 1 as described in directive 99/92/EC. This filter provides a high level of safety. Devices suitable for zone 1 are also suitable for zone 2. This filter is only suitable for media that do not generate static electricity.



## 2. Features

- 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
- Fully drainable vessel
- O-ring sealing: standard Buna-N. Other materials on request
- Pickled and passivated
- Suitable for 6 filter cartridges of 10", 20", 30" or 40" length

## 4. Models

This ATEX cartridge filter housing is available in four standard sizes in stainless steel. These are available with flanged connections.

### *Other standard filter housings*

MAHLE Industrial Filtration also supplies other standard filter housings suitable for all industrial liquid and gas applications for various flow rates. For more information please contact your representative.

## 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
ATEX	: Ex II 2G T4
Design	: AD-2000 Regelwerk
Approval	: PED 97/23/EC cat. II/III
Maximum differential pressure design	: 2.5 bar
operating	: depending on type of filter cartridge

The internal construction is designed to suit:

- Double Open End X0, X4 and X9
- Single Open End X3

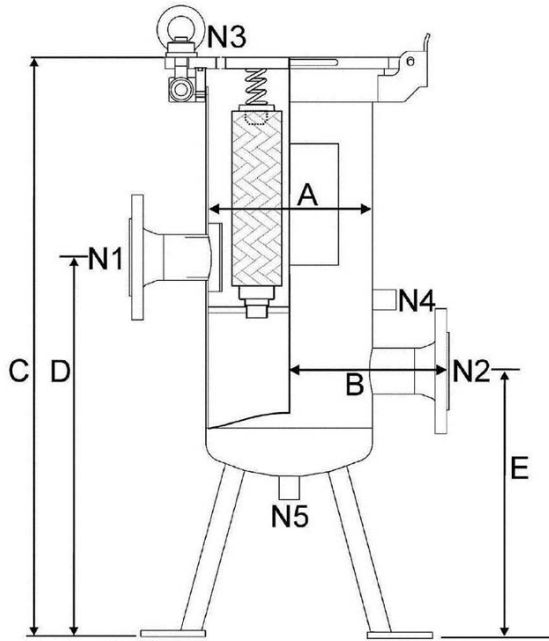
For use of DOE cartridges, tube guides and compression springs are supplied for quick and trouble free installation. For filter cartridges with X3 end cap configuration a compression plate is recommended.

## 5. Filter cartridges

MAHLE Industrial Filtration supplies a wide range of filter cartridges in different materials, pore sizes, dimensions and models to fit in amafilter housings as well as those of other manufacturers.

For detailed information about filter cartridges, please contact your representative.

## 6. Dimensions



### Nozzle specification

N1 :	Inlet (DN50 EN1092-1 PN16)
N2 :	Outlet (DN50 EN1092-1 PN16)
N3 :	Vent (Rp $\frac{1}{4}$ - ISO7-1)
N4 :	Dirt drain (Rp $\frac{1}{2}$ - ISO7-1)
N5 :	Clean drain (Rp $\frac{1}{2}$ - ISO7-1)

Model	Dimensions						
	Diameter [mm] A	Standout [mm] B	Height [mm] C	Nozze height [mm] D	Nozze height [mm] E	Volume [dm <sup>3</sup> ]	Weight [kg]
AFK6	219	210	750	500	350	19	31
AFK12	219	210	1010	500	350	28	35
AFK18	219	210	1265	500	350	38	39
AFK24	219	210	1540	500	350	47	44

Height required for changing cartridges is height C plus cartridge length. Dimensions are for reference only. Use dimensional drawing for installation purposes.

Subject to technical alteration without prior notice.

## 7. Ordering code

Example

amafilter type	AFK12	2	T	2F	EX
AFK6					
AFK12					
AFK18					
AFK24					
<b>Cartridge length</b>					
1 = 10"					
2 = 20"					
3 = 30"					
4 = 40"					
<b>Material</b>					
T = 316Ti (1.4571)					
<b>Inlet/outlet</b>					
2F = DN50 acc. EN10921/PN16					
2FA =ASME 150 lbs RF (on request)					
<b>ATEX</b>					
EX = Ex II 2G T4					

# MAHLE

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