

### Filter housing Lenticular filter ALS

#### 1. Introduction

Amafilter high quality sanitary lenticular filter housings are available in 12" (300 mm) or 16" (400 mm) diameter for one to four modules per housing.

Filtration takes place in a fully enclosed environment. The sanitary housings for lenticular filter modules are characterised by a compact design, which only require a small footprint area. MAHLE Industrial Filtration supplies lenticular filter modules manufactured from our own range of filter sheet media.

The amafilter ALS housing is suitable for modules with double o-ring bayonet seals. For flat seals, please see ALH housings



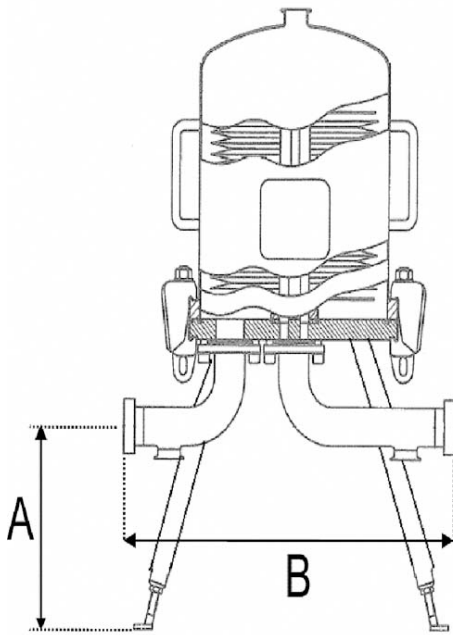
## 2. Features

- Compact design
- Ease of handling
- Filtration area 1.8 - 7.2 m<sup>2</sup> (12") and 3.6 - 14.4 m<sup>2</sup> (16") with standard lenticular filter modules
- Silicone seals, FDA / BfR approved
- Double o-ring seals for lenticular filter module
- Vessel material stainless steel 1.4404 (316L)
- Internally mechanically polished (Ra < 0.8 µm)
- On request:
  - Internally mechanically polished (Ra < 0.4 µm)
  - Electropolishing (internal/external)
- Externally mechanically polished
- Clamping bolt closing
- Three adjustable support legs
- One vent and two drain connections (1.5" clamp)
- Various instrument configurations

## 3. Standard specifications

Design pressure	: 0 / 8 bar(g) at 40 °C 0 / 6.2 bar(g) at 150 °C
Test pressure	: 11.5 bar(g)
Design temperature	: 0 / 150 °C
Operating pressure	: depending on application
Operating temperature	: depending on application, lenticular filter module and gasket
Design code	: AD-Merkblätter
Approval	: PED 97/23/EC
Hazard category	: I
Fluid group	: 1 and 2

## 4. Housing data and dimensions



A = Height Inlet / Outlet  
B = Distance Inlet / Outlet

Housing data		Module diameter	
	Modules	12" housing	16" housing
		Ø 320 mm	Ø 450 mm
Total height [mm]	1	980	980
	2	1250	1250
	3	1530	1550
	4	1830	1850
Additional height required for lifting bowl [mm]	1	430	440
	2	700	710
	3	970	980
	4	1250	1260
Volume [dm <sup>3</sup> ]	1	32	63
	2	53	105
	3	74	147
	4	96	191
Total weight empty [kg]	1	45	70
	2	50	78
	3	58	87
	4	63	96
Bowl weight [kg]	1	12	16
	2	16	22
	3	20	28
	4	25	35

	Dimensions										
	Weld		DIN 11851 Male part		Clamp		Flanges DIN 2633		Flanges ASME 150 lb		
	1.5 "	2"	DN40	DN50	1.5"	2"	DN32	DN40	1.25"	1.5"	2"
Height inlet/outlet A [mm]	373	345	373	345	373	345	373	345	373	345	189
B [mm] for 12" lenticulars	490	513	556	583	516	539	570	597	604	637	640
B [mm] for 16" lenticulars	585	605	651	675	611	631	665	423	699	729	735

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

## 5. Ordering code

Example

	ALS	12	1	2	M
<b>amafilter type</b>					
ALS					
<b>Lenticular module diameter</b>					
12 = 12"					
16 = 16"					
<b>Number of lenticular modules</b>					
1 = 1					
2 = 2					
3 = 3					
4 = 4					
<b>Inlet/outlet size</b>					
1.25 = 125"/DN32*					
1.5 = 1.5"/DN40					
2 = 2"/DN50**					
* only available for F + FA connection					
** not available for F connection					
<b>Inlet/outlet connection</b>					
B = weld					
M = DIN 11851 male part					
T = clamp					
F = Flange DIN 2633					
FA = Flange ASME 150 lb					

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