



Filtration | Separation | Purification

Lenticular Filter Housing

Lenticular filter housings are widely used for pre filtration processing in the wine and Beer industry as an alternative to the traditional plate and frame filter.

Compared with plate and frame filter, lenticular filter housings have the advantage of no leakage (product loss), and is a hygienic/ sanitary process that is fully enclosed.

Our lenticular filter housings are designed to suit the most popular lenticular filter module by Pall 3M CUNO, Eaton, Begerow, Sartorius etc. Both DOE (Flat gasket) and Double O-ring twist-lok connection styles are available.

Our Standard filter housing designs are for 15-16 cell, 12" or 16" filter modules. We offer housings that can hold 1, 2, 3, and 4 modules. The lenticular housings are made of high purity ANSI316L stainless steel. Surface finished to Ra<0.2um..



12" Filter module	Diameter	Length
	12"	16 Cell (~287mm)
	Flow rate	Filter Area
	6~8 GPM	~1.7 m ²
16" Filter module	Diameter	Length
	16"	16 Cell (~287mm)
	Max Flow	Filter Area
	12~16 GPM	~3.7 m ²
Flow rate applies to filter module 3 micron @ ΔP (0.1bar) 20°C water test		

Standard Features

- Made of ANSI 316L SS
- 87PSI pressure rating
- 1.5" or 2" Triclamp inlet and outlet
- 1.5" Triclamp diaphragm pressure gauge
- 1/2" Triclamp vent and drain with valve
- Surface finish Ra<0.2um
- For DOE Flat gasket lenticular filter
- Swing bolt closure type

Inner Pictures



Operating Conditions

Design Pressure	0.6Mpa(6bar)
Max Temp.	130°C(266°F)
Sterilization	Inline/Autoclave@121°C

Surface Finish

Polish type	Mirror polish
Finish	Internal Ra:0.2um; External Ra:0.2um

Construction

Housing Connection	Swing Bolt
Inlet/Outlet	Tri-clamp
Vent	Tri-clamp 1/2"
Drain	Tri-clamp 1/2"
Pressure Gauge	1.5" Tri-clamp

Material of Construction

Housing body	304,316L
Vent / Drain	304,316L
Swing Bolt	304
Feet Support	304
Sealing	Silicon,EPDM, Viton

Ordering Information

LCF	6	12DB1	1.5TC	D	S
Filter type		12DB1=12" 1high	Inlet/outlet	Filter Module End cap	Body Closure type
Lenticular filter		12DB2=12" 2high	TC=Tri clamp	D= DOE	S= Swing bolt
Material type		12DB3=12" 3high	1.5TC=1.5TC	P= Plug in double O ring	C= Clamp
4=304ss		12DB4=12" 4high	2.0TC=2.0TC	(P is customized feature)	(C only for 12" type)
6=316ss		16DB1=16" 1high			
		16DB2=16" 2high			
		16DB3=16" 3high			
		16DB4=16" 4high			

Customized Features

- Filter housing for Plug in double o ring filter module available
- Flange Union NPT Connection in&outlet available
- Bottom wheels available
- Clamp type body closure available (only for 12" type housing)
- Higher pressure application available

Please call us if you want customized housings



Lenticular housing with clamp body closure



Lenticular housing with wheels