

# DISCSTAR® LS

## LENTICULAR FILTER MODULE HOUSING – LIFE SCIENCES

### Description

Economical stainless steel filter housing for lenticular depth filter modules.  
Full range from 1 to 4 modules, 12" and 16" diameter, with DOE or DOR adapter.

Type DISCSTAR® LS 30 for 12" modules  
Type DISCSTAR® LS 40 for 16" modules

- System of choice for frequently changing filtration applications in the pharmaceutical industry
- High-capacity depth filtration with no drip loss (no edge leaking)
- Designed and manufactured for heavy duty use – 24/7
- System provides pressure stability up to 10 bars

### Applications

Biotech, Pharmaceuticals (intermediates, APIs, vaccines, injectables ...),  
Cosmetics, Chemicals (hazardous liquids, solvents, glues, paints, inks, surfactants, process water ...).

### Product Details

- High chemical resistance
- Small footprint
- Easy CIP cleaning possible
- Adaptable to customer's process requirements
- Available with DOE (flat gasket) or DOR (bayonet / double-O-ring) adapter
- Corrosion resistance and durability due to 316L/1.4404 stainless steel and automatic welding
- Split Bowl and Heating Jacket available
- High precision module tightening nut system
- Screw clamp closure systems simplifies operation
- Customizable with optional accessories
- User-manual and declaration of conformity included



### Filter Area

Type	Size 1	Size 2	Size 3	Size 4
DISCSTAR® LS 30	1.8 m <sup>2</sup> /19 sq ft	3.6 m <sup>2</sup> /39 sq ft	5.4 m <sup>2</sup> /58 sq ft	7.2 m <sup>2</sup> /78 sq ft
DISCSTAR® LS 40	3.6 m <sup>2</sup> /39 sq ft	7.2 m <sup>2</sup> /78 sq ft	10.8 m <sup>2</sup> /116 sq ft	14.4 m <sup>2</sup> /155 sq ft

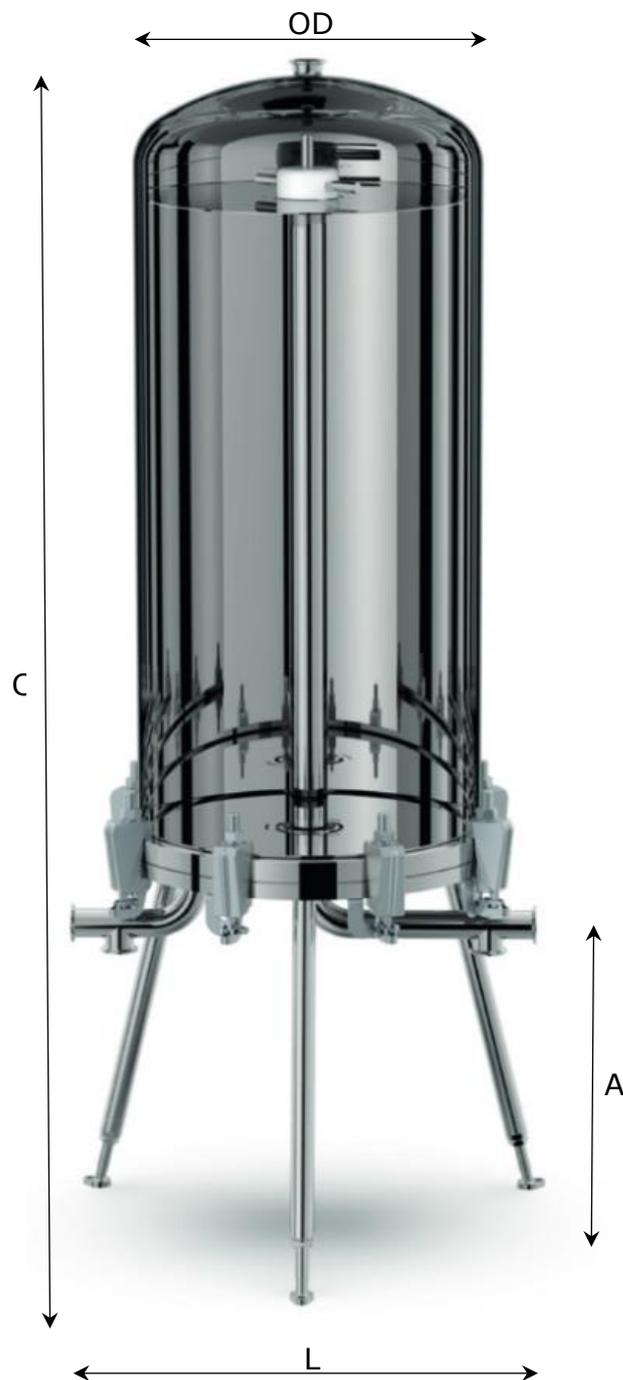
### Specifications

Description	Characterization
Materials of construction (wetted parts)	316L/1.4404 stainless steel
No. of modules	1, 2, 3, 4
Module diameter	12", 16"
Socket	Flat gasket (DOE), bayonet / double-O-ring (DOR)
In/Out connections	Clamp ASME BPE, DIN 11851, butt weld, ASME flanges, EN flanges
Drains and vent	Clamp ASME BPE, DIN 11851, butt weld, ASME flanges, EN flanges
Pressure (PS) min-max	-1.0 to 10.0 bar (-14.0 to 145.0 psi)
Temp. (TS) min-max	-20 °C to 150 °C (-4 °F to 302 °F)
External surface	Mirror polished
Internal surface	Mechanical polished: Ra<0.8µm (Ra<32pin) (1) Ra<0.4µm (Ra<16pin)
ATEX regulation	Compliant with EU directive
PED 2014/68/EU	Liquid and gas, PED fluid group 1
Design code	EN 13445
Housing/gasket materials	Food Contact Compliance EU1935/2004 – FDA – USP VI

## Dimensions

Type	DISCSTAR® LS 30				DISCSTAR® LS 40			
Modules Ø	12"	12"	12"	12"	16"	16"	16"	16"
No of modules	1	2	3	4	1	2	3	4
A mm	373	373	373	373	373	373	373	373
L mm	505	505	505	505	611	611	611	611
C mm	970	1240	1520	1820	980	1250	1550	1850
OD mm	320	320	320	320	450	450	450	450
Total vessel volume liters (V)	32	53	74	96	63	105	147	191
Bowl weight kg	16	22	29	36	22	32	42	52
Total net weight kg	59	66	74	96	100	110	121	131

\*Dimensions are for standard housings with TC 1.5" connections and drains.  
More options available on requests.



## Quality Assurance

- ISO 9001 (quality management)
- FDA (US Food and Drug Administration) 21 CFR 177.2260 e-k
- Food Grade Compliance: CE 1935/2004
- Gasket Materials: FDA and USP Class VI
- ATEX Compliance
- Designed according to Pressure Equipment Directive (PED)
- Certificates 3.1: Material, Roughness, Hydraulic test, Final inspection, and others

## Accessories

**VENT TC 1.5"  
VALVE + CLAMP**



**VENT TC 1.5" SIGHT GLASS 2  
SANITARY VALVE + CLAMP**



**VENT TC 1.5" SIGHT GLASS 2  
BALL VALVE + CLAMP**



**BUTTERFLY VALVE  
TC + CLAMP**



**BALL VALVE  
TC 1.5" + CLAMP**



**SAMPLING TEST  
TC 1.5" + CLAMP**



Other accessories and spare parts available on request.

## Remarks

All information is based on current knowledge and does not claim to be complete. No liabilities can be derived from this information. The user is advised to perform an incoming goods control. We reserves the right to make changes in the course of technical improvements.