



DISCSTAR™ I

LENTICULAR HOUSING

The choice for industrial and low critical filtration applications



The DISCSTAR™ I is an economical stainless steel filter housing for lenticular depth filter modules. The enclosed system allows high capacity depth filtration with no drip loss (no edge leaking). Designed and manufactured for heavy duty use – 24/7. System of choice for frequently changing filtration applications. This system provides pressure stability up to 10 bars.

Applications

- Pharmaceutical raw materials
- Oils
- Inks
- ...

Features

- Easy handling
- Simple and fast exchange of the lenticular modules
- High chemical resistant
- Small foot print
- Available for 12" and 16" modules
- Low investment cost with a relatively large filter area
- Easy CIP cleaning possible
- Easily adaptable to your process due to in-house production

Filter area				
	Size 1	Size 2	Size 3	Size 4
DISCSTAR™ I	1.8 m ² (19 sq ft)	3.6 m ² (39 sq ft)	5.4 m ² (58 sq ft)	7.2 m ² (78 sq ft)
DISCSTAR™ I	n.a.	7.2 m ² (78 sq ft)	10.8 m ² (116 sq ft)	14.4 m ² (155 sq ft)

Technical data							
DISCSTAR™ type	Size 12" = 30 16" = 40		Max. operating pressure	Max. operating temperature	Inlet/outlet connection	Module interlock	Closing mechanism
DISCSTAR™ I	30	40	Liquid: 10 bar / 87 psi Gas / steam: 0.5 bar / 7 psi	Liquid: 140 °C / 285 °F Gas / steam: 95 °C / 203 °F	With welded tube bent 90° DIN 11851 (dairy) DN 50	DOE / DOR on request	Swing bolts

Limiting factor for the Δp of a module is the sheet grade and the application.

Material					
	Stainless steel material (product contact)	Other stainless steel parts	Surface finish (inside)	Surface finish (outside)	Gaskets
DISCSTAR™ I	AISI 316L	AISI 304	All welds ground smooth polished Ra < 0.8 μ m	Ground polished Ra < 1.2 μ m	EPDM

Options

The typical setup requires gauges and valves, as well as a check valve. For DISCSTAR™ I many options are available:

- Pharma version (please refer to special literature).
- Double-O-ring sealing and bayonet interlock to ensure highest integrity at easy handling.
- Connections can be TC-clamp (sanitary, DIN 32676), dairy (DIN 11851) or flange (DIN 2633).
- Housings with a higher edge at the base plate help to avoid spillage of hazardous liquids.

- For filtrations with controlled temperature (cooling or heating) we recommend a double shell dome for temperature controlled liquid.
- For larger filter area, DISCSTAR™ I is also available as a multistack housing. (Up to 4 stacks, 4 high, 16 x 16" modules under one dome).
- Gaskets: EPDM (standard), silicone, Viton® or Teflon® encapsulated silicone.
- Converters from double-O-ring to flat gasket adaptors are available for both directions. They can be quickly and easily applied.
- Insulating jacket available.

Dimensions (mm)							
	DISCSTAR™ 30				DISCSTAR™ 40		
	Size 1	Size 2	Size 3	Size 4	Size 2	Size 3	Size 4
A	691	1052	1327	1602	1362	1657	1953
B	446	726	1001	1276	772	1067	1363
C	215	296			562		
D	150	185			415		
E	110				164		
F	329				589		
G	190	205			340		
H	95	103			170		
I	324				450		
L	49	177			256		
M	159	177			256		
DNX	DN 50 DIN 11851	DN 50 DIN 11851			DN 50 DIN 11851		
DNY	DN 10, DIN 11851				DN 10, DIN 11851		

Vol./weight(approx.)							
	DISCSTAR™ 30				DISCSTAR™ 40		
	Size 1	Size 2	Size 3	Size 4	Size 2	Size 3	Size 4
Void vol. (l)	30	52	76	99	109	154	199
Empty (kg)	59	68	78	88	119	130	141
Full (kg)	89	120	154	187	228	284	340
Dome (kg)	20	28	36	45	41	52	63

FILTRIX quality assurance

FILTRIX assures the best quality control according to international standards:

- ISO 9001 (quality management).
- Vessel and equipment fulfil the requirements according to AD-2000.
- The module housings are manufactured according to good engineering practice.

Piping system

By customer request

Documents (on request)

- Ferrite measurements
- Surface roughness (< 0.8 µm [Ra])
- Certificate gaskets (FDA)
- Material certificate 3.1 or 2.2 (only for material in direct contact with the product)
- Guideline ATEX 94/9/EG
- ASME (U-Stamp)
- Pressure vessel guideline DGR 97/23/EG
- EU Guideline 89/392/EGW
- Welder certificate
- Pickle protocol

