



© Basket Strainer Eco Series general situation

Basket strainers protect equipment by mechanically removing solids from liquids and other piping systems with the use of a perforated or wire mesh straining screen in a vertically oriented chamber. Basket strainers have more debris holding capacity than Y strainers, and generally have less of a pressure drop, which is why they are ideal in liquid applications.

Basket strainers are sometimes used in double arrangements so that flow can be diverted while the system remains in service and the screen is cleaned. Basket Strainers feature top removal of the screen. The screen is in the form of a basket, with a lifting handle, so that all particulate captured and retained by the screen can be easily removed for disposal. They are intended for applications where large amounts of solids particulate are expected and where the clean-out will be frequent.

Cleaning of the strainer is accomplished by removing the cover and pulling out the basket, and a bolted top cover flange is provided for ease in basket removal. The high pressure/temperature gasket between the body and cover is spiral wound 304 stainless steel. The basket strainers have carbon steel hex head cap screws and come with a tapped and plugged NPT drain connection.

For the duplex version of this strainer that allows for cleaning without system shut down.

Carbon Steel performs exceptionally well in high temperatures, up to 425°C in continuous service. It provides high resistance to shock, vibration, piping strains, and fire and freezing hazards.

◎ **Feature**

1. **Top removal of the screen**
2. **Large straining capacity**
 With its large body and sizeable straining element, the basket strainer has the ability to store large quantities of debris without affecting pressure loss. Thus maximizing time between servicing.
3. **Provide a wide selection of mesh sizes (mesh:2.5~325)**
4. **High Quality stainless steel screen; made out of high resistance wire, rugged and braided type. Thick enough to avoid deformation.**
5. **Drain port or drain ball valve with NPT end; for in line emptying of condensate or water.**
6. **Bolting cover to ease maintenance operations.**
7. **Low pressure drop.**
8. **Large strainer screens.**
9. **Fabricated body**
10. **Epoxy painting**



◎ **Performance Standard:**

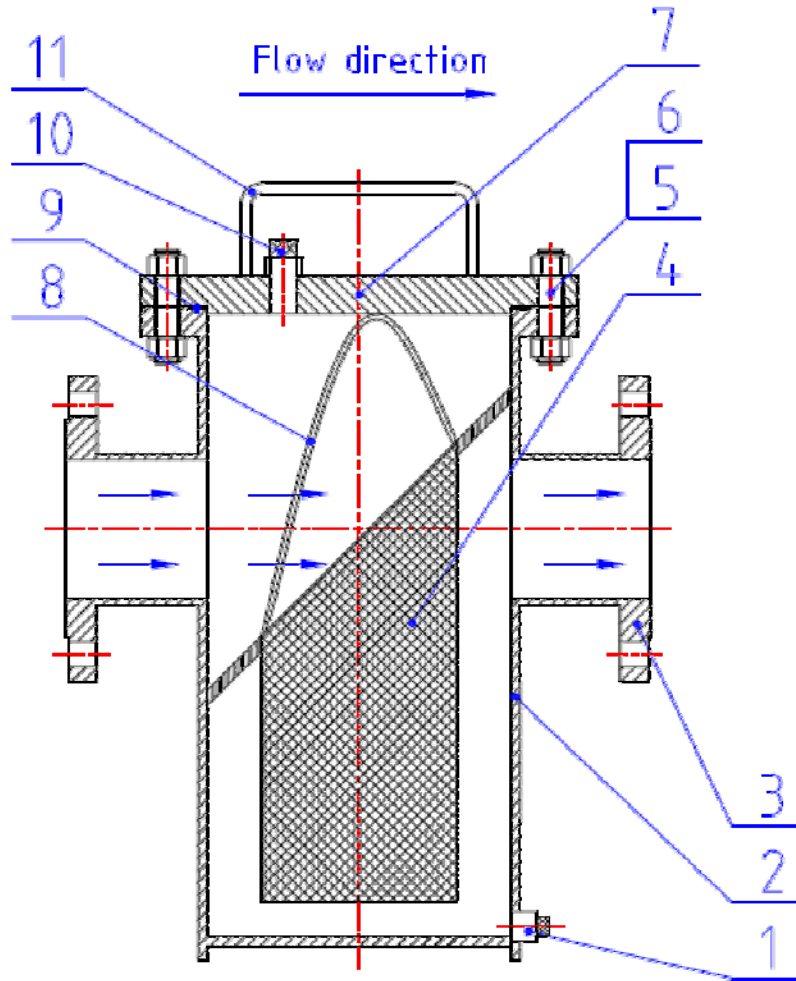
1. Design & Manufacture standard as to: ASME B31.4
 ASME B16.34
2. Face to Face dimension standard as to: MFR-STD
3. Flange dimension conforms as to: ASME B16.5 RF
4. Testing And Inspection as to: API 598
5. Pressure-temperature conforms as to: ASME B16.34
6. Anti Corrosion as per NACE MR-0175 requirement

Technical Data:

1. Size range: NPS 2"~16"
2. Pressure ratings: 150LB / 300LB
3. Working temperature: -29°C ~ +425°C
4. Suitable Medium: water & wastewater, pulp & paper, chemical & petrochemical, petroleum, oil & gas, transportation, marine industry, and food industry
5. Body Material: **A234 WPB / A216 WCB / A105**
6. Screen Material: A276 SS316
7. Mesh: As per purchaser

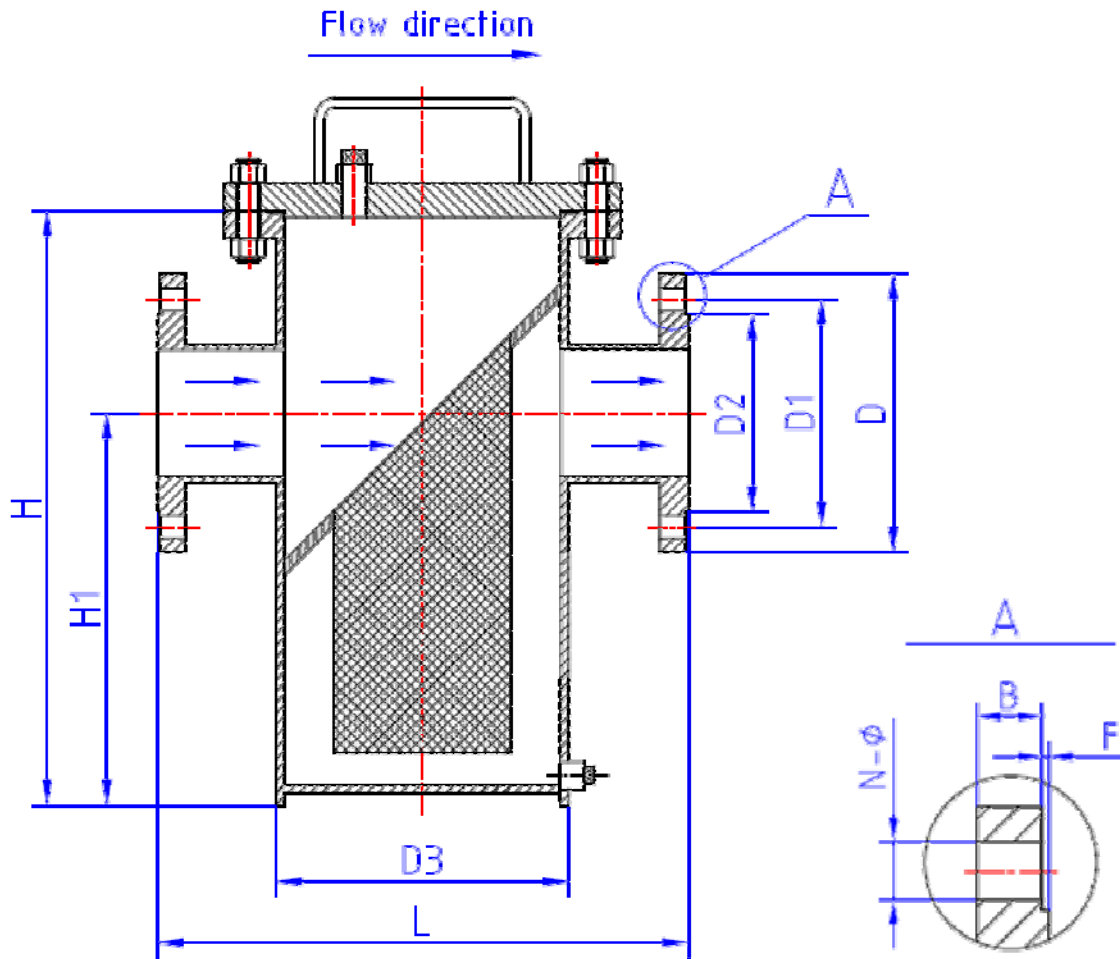
Other options :

1. Quick open hinged or davit cover assembly bolted cover.
2. Steam jacket for highly viscous fluids.
3. Support legs or skirt.
4. Weld neck flanges.
5. Flanged class 600LB/900LB/1500LB/2500LB. RF, RTJ or butt weld piping connections.
6. DP gauge connections.
7. DP gauge/switch (fitted).
8. Self-cleaning option.



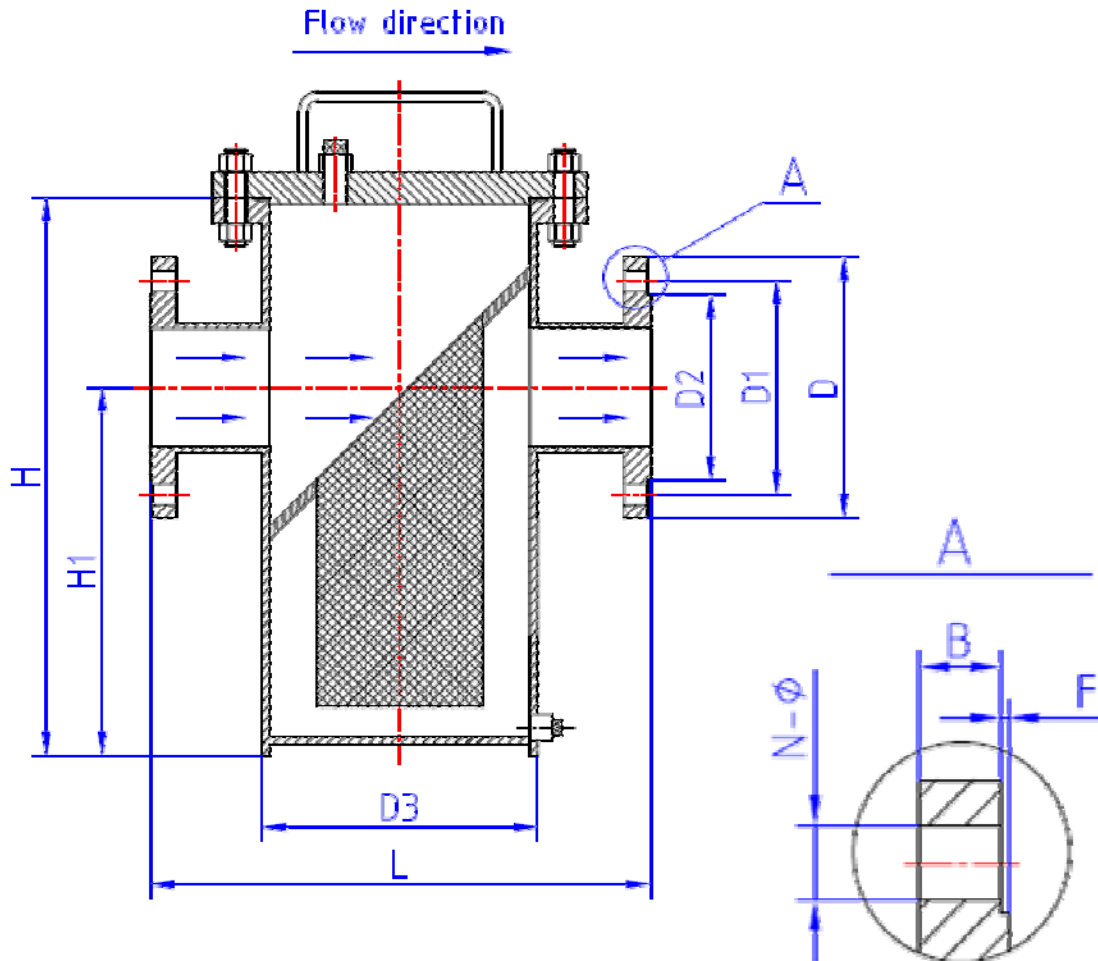
Part List of Basket Strainer Eco Series

No.	Name	Material	Standard
1.	Drain Plug	Carbon Steel	ASTM A105
2.	Body	Carbon Steel	ASTM A216 WCB ASTM A234 WPB ASTM A105
3.	Flange	Carbon Steel	ASTM A105
4.	Screen	SS316	ASTM A276
5.	Bolt	B7	ASTM A193
6.	Nut	2H	ASTM A194
7.	Cover	Carbon Steel	ASTM A105
8.	Screen Handle	SS316	ASTM A276
9.	Gasket	SS316+Graphite	ASTM A276
10.	Vent Plug	Carbon Steel	ASTM A105
11.	Cover Handle	Carbon Steel	AISI 1025



Main Dimension of Basket Strainer Eco Series 150LB

NPS	L	D3	H	H1	D	D1	D2	B	N-ø	F	Weight (Kg)
2"	280	ø133	300	180	ø150	ø120.7	ø92	17.5	4 - ø19	2	21
2 1/2"	330	ø133	350	220	ø180	ø139.7	ø105	21	4 - ø19	2	25
3"	340	ø159	400	260	ø190	ø152.4	ø127	22.5	4 - ø19	2	35
4"	420	ø219	470	310	ø230	ø190.5	ø157	22.5	8 - ø19	2	60
6"	500	ø273	620	430	ø280	ø241.3	ø216	24	8 - ø22	2	98
8"	560	ø325	780	530	ø345	ø298.5	ø270	27	8 - ø22	2	125
10"	660	ø377	930	640	ø405	ø362.0	ø324	29	12 - ø25.5	2	210
12"	750	ø478	1120	800	ø485	ø431.8	ø381	31	12 - ø25.5	2	298
14"	800	ø530	1300	930	ø535	ø476.3	ø413	33.5	12 - ø29	2	370
16"	850	ø530	1400	1000	ø595	ø539.8	ø470	35	16 - ø29	2	458



Main Dimension of Basket Strainer Eco Series 300LB

NPS	L	D3	H	H1	D	D1	D2	B	N-ø	F	Weight (Kg)
2"	280	ø133	300	180	ø165	ø127	ø92	21	8 - ø19	2	25
2 1/2"	330	ø133	370	220	ø190	ø149.2	ø105	24	8 - ø22	2	31
3"	360	ø159	420	260	ø210	ø168.3	ø127	27	8 - ø22	2	44
4"	460	ø219	500	310	ø255	ø200	ø157	30.5	8 - ø22	2	83
6"	540	ø273	670	430	ø320	ø269.9	ø216	35	12 - ø22	2	145
8"	600	ø325	850	530	ø380	ø330.2	ø270	40	12 - ø25.5	2	230
10"	700	ø377	1000	640	ø445	ø387.4	ø324	46.5	16 - ø29	2	380
12"	780	ø478	1300	840	ø520	ø450.8	ø381	50	16 - ø32	2	605
14"	800	ø530	1300	930	ø585	ø514.4	ø413	52.5	20 - ø32	2	640
16"	850	ø530	1400	1000	ø650	ø571.5	ø470	56	20 - ø35	2	755