Basket Strainer

Basket Strainer for collect solid contains

through a flow line

Basket Type Strainer

Series BSTR

✓ Principle

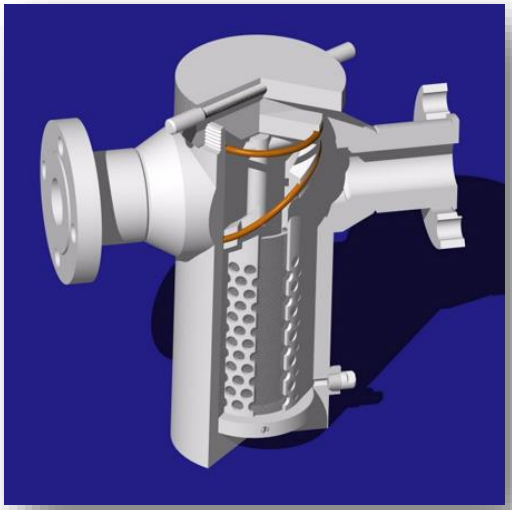
BSTR Basket Strainers are used to separate and collect any unwanted solid contains through liquid flow before flow meters or any other vulnerable device.

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 capture and retained by the screen can be easily removed for disposal. They are intended for application where larger amounts of solid particle are expected, and where clean-out will be frequent.

Most models have a standard or optional “Quick Release Cover” to allow fast and easy screen removal without use any tools.

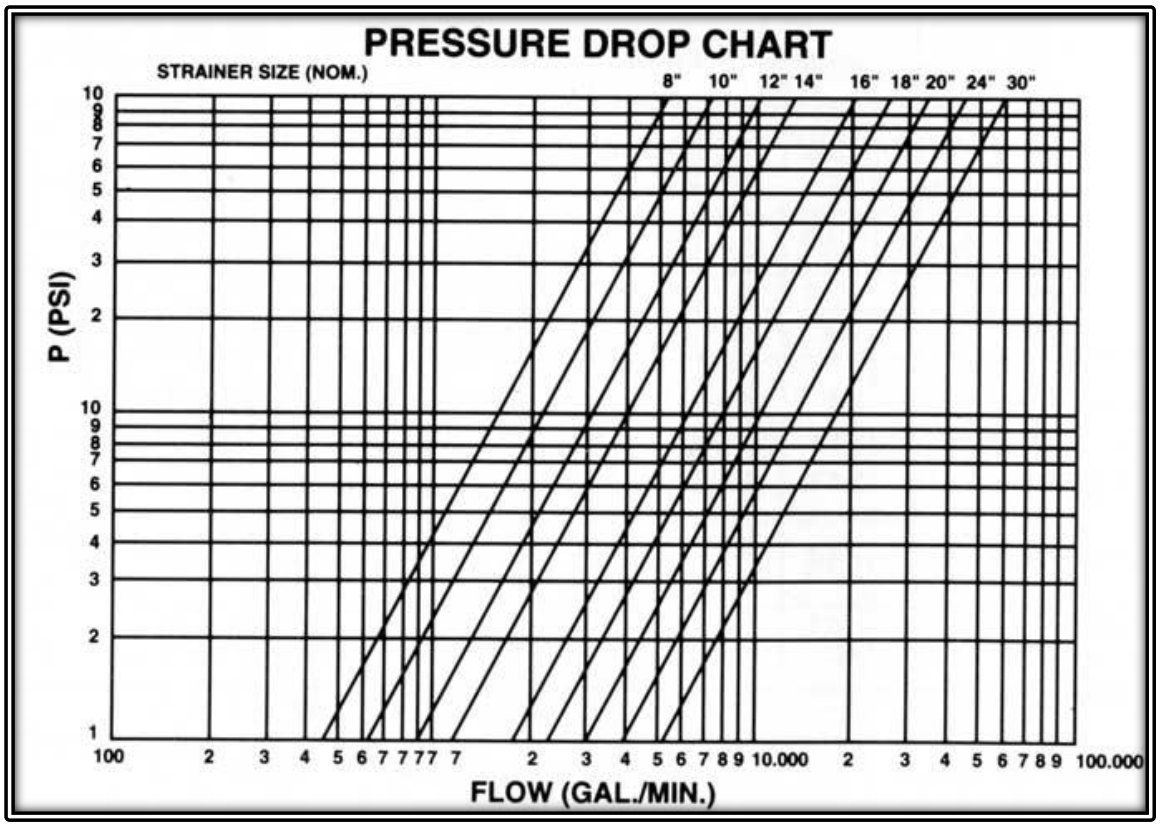
The size of holes through the basket or mesh size determines the allowable solid contains to cross. Whatever the hole size of mesh increases, then the pressure loss through the flow decrease accordingly. Therefore, choosing an optimized mesh size is very important.

A differential Pressure Gauge (or two separate P. Gauges) installation shows the rate of trapped contains; regarding to the manual of each model, basket removal can be known.



✓ Construction

Pressure Drop : it is a function of the flow rate for each mesh screen size. (Mesh No. 40)



For Pressure drop based on other mesh sizes, please call the engineering department of CPP Co.

Design and Calculation Standards
: ASME B 16.5 for Flanges,
ASME Sec. VIII for mechanical calculations

Sizes : DN 50 - 900, 2" - 36"

Pressure rating : 300 - 2500 lbs. depend on Flange rating class.

Standard Mesh Sizes Table:

U.S. MESH	INCHES	MICRONS	MILLIMETERS
3	0.2650	6730	6.730
4	0.1870	4760	4.760
5	0.1570	4000	4.000
6	0.1320	3360	3.360
7	0.1110	2830	2.830
8	0.0937	2380	2.380
10	0.0787	2000	2.000
12	0.0661	1680	1.680
14	0.0555	1410	1.410
16	0.0469	1190	1.190
18	0.0394	1000	1.000
20	0.0331	841	0.841
25	0.0280	707	0.707
30	0.0232	595	0.595
35	0.0197	500	0.500
40	0.0165	400	0.400
45	0.0138	354	0.354
50	0.0117	297	0.297
60	0.0098	250	0.250
70	0.0083	210	0.210
80	0.0070	177	0.177
100	0.0059	149	0.149
120	0.0049	125	0.125
140	0.0041	105	0.105
170	0.0035	88	0.088
200	0.0029	74	0.074
230	0.0024	63	0.063
270	0.0021	53	0.053
325	0.0017	44	0.044
400	0.0015	37	0.037

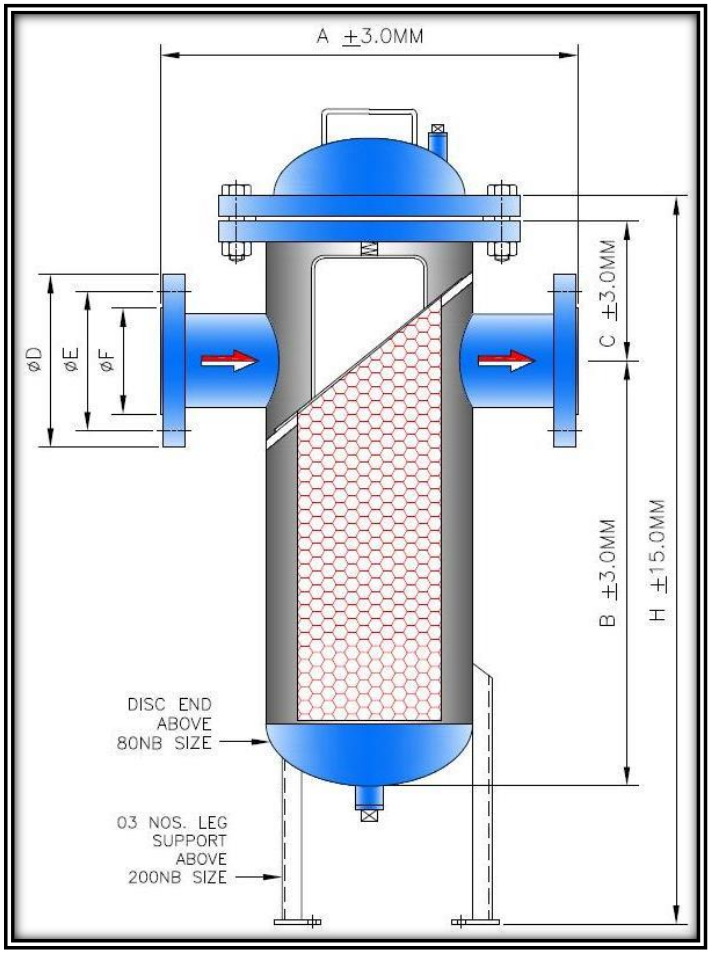
Vent Connection: Thread 2, 1, ½, ¼ Inch NPT or B or G type,
ANSI Flanges with nozzle and blind,
Automatic or Manual On Off Valve,
Relief Valve with adjustable Pressure acting,
and other on request.

Drain Connection : Same as Vent Connection.

Material : Stainless Steel, Carbon Steel, Monel, Inconel, Duplex, Super Duplex, and others on request.

Mounting style : Between flanges with IX grooves according to NORSOK L-005

Dimensions :



Size (INCH)	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
Size (DN)	40	50	65	80	100	125	150	200	250	300
F to F - A	300	310	350	410	460	470	520	610	720	800
C to Bottom - B	220	240	300	350	380	460	550	710	860	870
Cen. to Top - C	100	100	120	130	160	170	190	230	260	310
Height - H	330	360	450	510	570	660	780	1230	1390	1480
Flange O.D. - ØD	127	152.4	177.8	190.5	228.6	254	279	343	406	483
Flange PCD - ØE	98.4	120.6	139.7	152.4	190.5	215.9	241.3	298.4	362	431.8
R.F. Dia. - ØF	73	92.1	104.7	127	157.2	185.6	215.9	269.9	323.8	381
No. of Hole	04	04	04	04	08	08	08	08	12	12
Hole Dia.	15.8	15.8	19	19	19	19	22.2	22.2	25.4	25.4

- *Above Dimensions are subject to our Standard Manufacturing Range. Dimension may change subject to Flow Capacity, Pressure Rating and Open Area Ratio.*
- *For other sizes please call engineering department of CPP Co.*

Pressure taps : Threaded: ½" NPT (standard) or ½'' BSP.

P. Taps location : For Inlet Nozzle and Outlet Nozzle to make the Operator able to understand how full the basket is.

Marking :The Pipe size, Flange type and rating, Body material, Screen Material and Mesh size, Vent, Drain and other connections (if any) and total weight; also the FLOW Direction Arrow.

Some Samples of Flow Strainer:



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