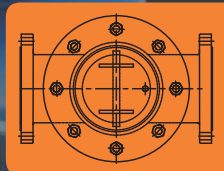
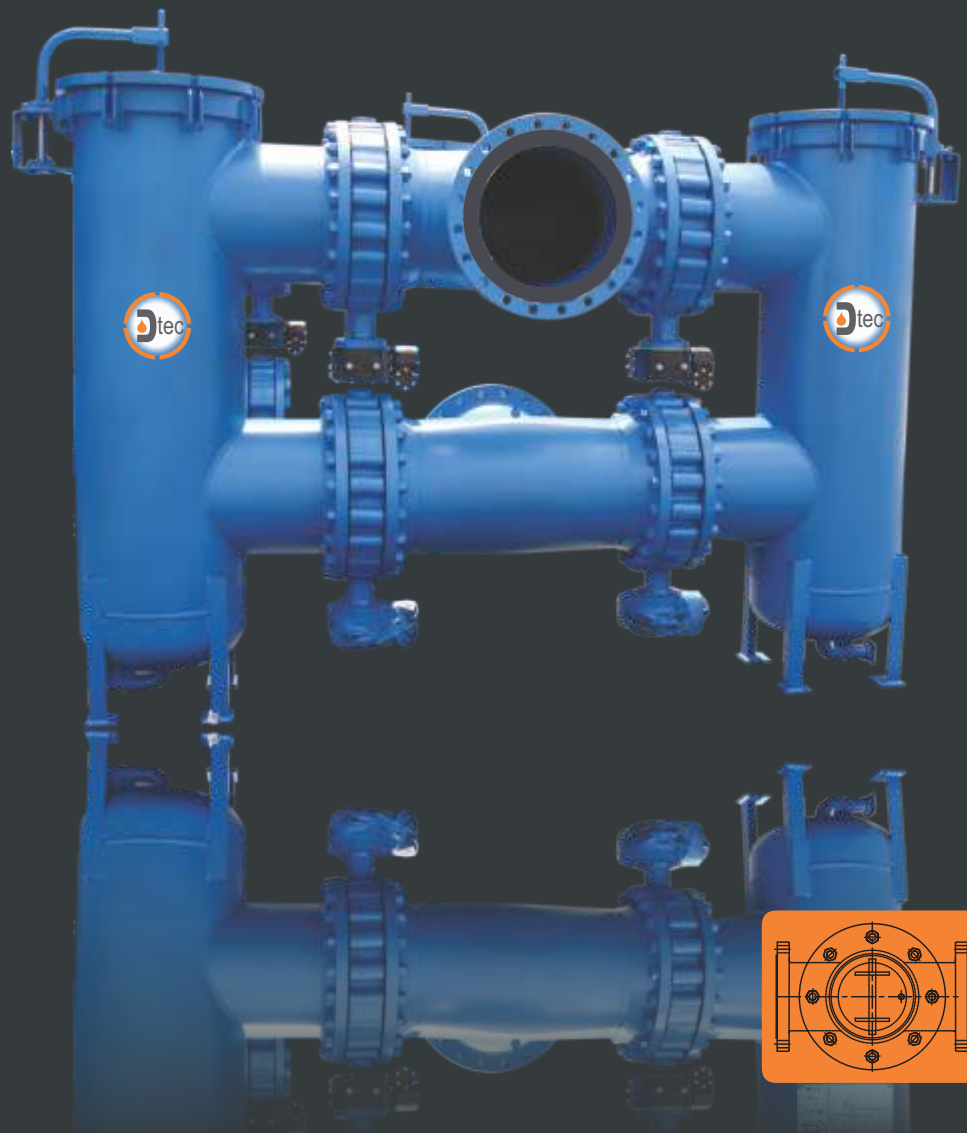




FLOW PUMP SOLUTIONS PVT. LTD.

Reliable | Efficiency | Quality





Strainer Checklist

For your convenience, we list below some of the more common factors to take into account when selecting a strainer or filter.

Flow to be strained _____ Pump rate in GPM, _____

Working Pressure in Psi _____ Maximum pressure in psi _____

Working temperature _____ Maximum temperature _____

pH of fluid (Acid or Alkaline) _____

Strainer body material preferred _____

Strainer type : "Y" type: Basket, Duplex; Self-cleaning _____

Present pipeline size _____ Pipe material _____

Nature of solids to be strained out _____

Size of solids to be strained out _____ Size mesh required _____

Limitation on clearance in proposed strainer location: Above _____ Below _____

Maximum pressure drop that can be tolerated, with dirty screen _____ psid _____

Expected cleaning frequency: Daily; Weekly; Monthly; Other _____

OTHER ITEMS THAT MAY BE OF BENEFIT TO THE APPLICATION

Pressure gauges to show when clean-out is required _____

Isolating valves to facilitate strainer clean-out _____

Manual or automatic blow-down valve _____

Other comments _____

Most pump, nozzle, valve and instrument specifications will give maximum size of solids that can be pressed. See screen mesh opening table on right to select appropriate screen. Screen opening should be approximately 1/3 to 1/2 the size of maximum allowable solids size.

Mesh	Thousandths*	Microns	Mesh	Thousandths*	Microns
16	0.045"	1143	60	0.010"	254
20	0.032"	813	80	0.008"	203
30	0.021"	533	100	0.02105"	127
40	0.016"	406	200	0.003"	76

*use numbers after decimal point for strainer part number suffix



SIMPLEX BASKET STRAINER

A slant top design improves the flow through the strainer and results in significantly lower pressure drops. This design also results in a more compact basket that weighs less than an ordinary basket. This makes it possible for one person to remove it from the strainer housing, a labor saving feature when it comes time to clean or change out the basket.

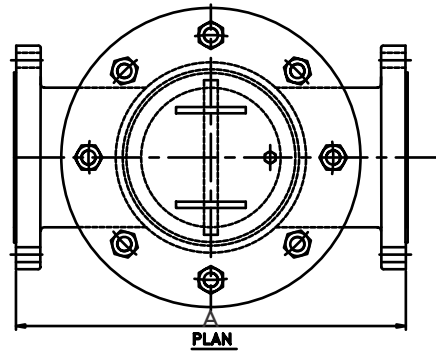
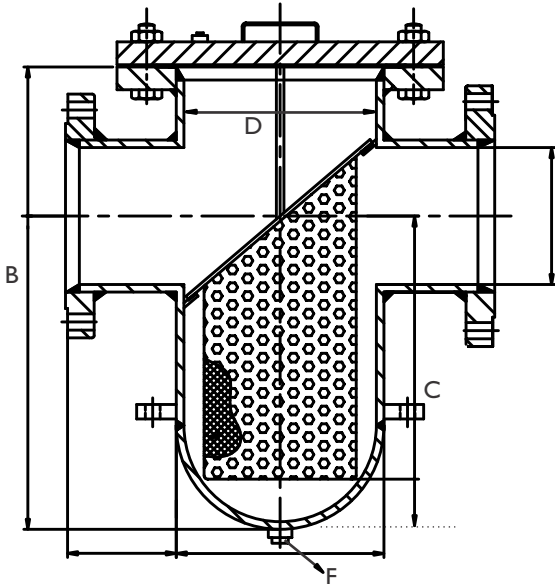
Material of construction
 Body : MS, CS, 304SS, 316SS
 Filter : 304SS, 316SS
 Gasket : Spiral wounded SS



Standard sizes from 2" - 24". Larger sizes available upon request.
 Available with RF or RTJ flanged (ASME B16.5) or Buttweld (ASME B16.9) end connections.

COVER TYPE OPENINGS

For applications with infrequent basket changing, FPS Pvt. Ltd. offers a simple, cost-effective, bolted cover type. It's available with a davit assembly cover for larger strainers with heavy covers, this makes it possible for a one-person operation. For applications with more frequent changing, FPS Pvt. Ltd. offers a hinged, quick opening cover secured by swing bolts. This is adaptable for higher pressure applications. For medium size strainers, 8" to 16" a bolted slide hinge cover is available. This permits one operator to engage the hinge and open the cover.



OPTIONS

- ◆ Hinged cover or davit assembly for easier maintenance
- ◆ Alloy construction for body and baskets
- ◆ RTJ-style connections
- ◆ Vent valves, Drain valves, Gauge taps
- ◆ Backflushing system for manual or automated cleaning

ELEVATION

DIMENSIONAL DATA

Size	A	B	C	D	F	Weight	Remark
IN.	IN	IN.	IN.	IN.	IN.	LB	
mm	(mm)	(mm)	(mm)	(mm)	(mm)	KG	
2"	14.88	20.00	12.00	6.63	1/2"	195	Dimensions and Weight will Be as Per our Final GA Drawing
50	378	508	305	168	15	89	
3"	16.50	25.00	15.75	8.63	3/4"	250	
80	419	635	400	219	20	114	
4"	18.63	26.00	15.88	8.63	1	300	
100	473	660	403	219	25	136	
5"	20.25	28.00	17.13	10.75	1	400	
125	514	711	435	273	25	182	
6"	24.50	30.75	19.13	10.75	1	480	
150	622	781	486	273	25	218	
8"	24.88	35.50	22.00	12.75	1-1/2	681	
200	632	902	559	324	40	310	
10"	35.38	42.50	27.25	16.00	1-1/2	1100	
250	1000	1080	692	406	40	500	
12"	39.38	47.74	30.38	18.00	1-1/2	1650	
300	1000	1213	772	457	40	750	
14"	41.50	52.50	33.00	20.00	2	2600	
350	1054	1334	838	508	.50	1250	
16"	47.50	60.00	38.88	24.00	2	2750	
400	1207	1524	988	610	50	1250	



FABRICATED DUPLEX BASKET STRAINERS

The Duplex Strainer provides continued and dependable removal of unwanted solids from fluids. This strainer serves to protect valves, pumps, meters, spray nozzles, and various other equipment. It is often used to ensure product purity in such industries as gas, petroleum, bio-fuels and power plants. A duplex strainer is used in applications where fluid flow cannot be interrupted when the basket is removed for cleaning. It maintains a continuous flow by utilizing two separate basket chambers with integral valves to direct flow into one of the basket chambers.

The FPS Pvt. Ltd. duplex strainer is a compact unit, with off-set inlet/outlet connections, which enables easy piping and variable strainer placement. Chamber change over is accomplished quickly and easily. A single lever controls the positive sealing butterfly valves, changing the fluid flow. Built as a standard model unit, is also flexible to meet the individual needs of the customer, and varying application requirements. It is available in a variety of materials, and its fabricated design is superior for corrosive, hazardous or low specific gravity fluid applications.

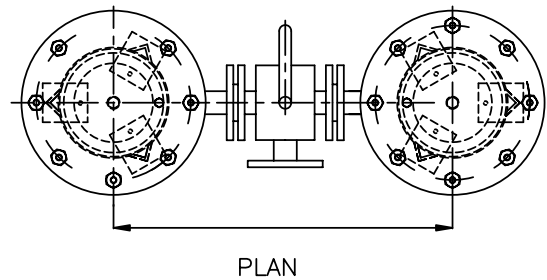
STANDARD DESIGN

- ◆ Fabricated carbon steel strainer body with bolted style cover
- ◆ 304 stainless steel basket with perforated (1/32", 1/16", 1/8", 5/32" openings)
- ◆ Butterfly valve with cast iron body Buna-'N' seats, ductile iron disc, and stainless steel stem
- ◆ Lever operated valves with inter-connected linkage
- ◆ Positive seal valving
- ◆ Design pressure 150 psig @ 150°F
- ◆ Welded to ASME Section IX, certified welders
- ◆ Complete package is hydrostatically tested



STANDARD DESIGN FEATURES

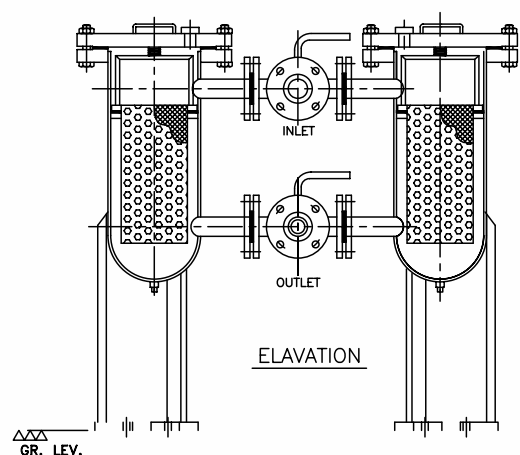
- ◆ Compact design allows for low installation cost.
- ◆ Large capacity, heavy duty basket design for a long life.
- ◆ Low pressure drop that provides for high flow capacity.
- ◆ Efficient design requiring few moving parts and low maintenance costs.
- ◆ Simple, easy, and effective switching of flow with positive shut-off.



PLAN

OPTIONS AVAILABLE

Numerous vessel materials of construction such as stainless steel, copper nickel, monel and others for corrosive environment
Variation in flange connection alignment ASME Section VIII, Division I, Code Stamp – supplied with complete material Traceability
Vessels designed for high pressure/temperature applications. Special internal and external coatings
Cover lift (davit) assembly
Quick opening hinged covers
Latch bolt closures
Basket material of 316 stainless steel, monel and others
Mesh lined basket – 20 x 20 to 500 x 500 Mesh
In-line connection arrangement – Model 544
Low pressure drop that provides for high flow capacity. Efficient design requiring few moving parts and low maintenance costs. Simple, easy, and effective switching of flow with positive shut-off.



ELEVATION

GR. LEV.

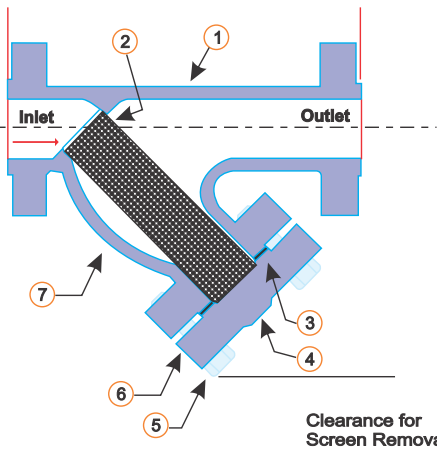


"Y" TYPE STRAINERS

"Y" Strainers take their name from their configuration. They are most commonly used in pressurized lines, gas or liquid, but can also be used in suction or vacuum conditions. They are intended for applications where small amounts of solid particulate are expected, and where clean-out will be infrequent. If solids will flush easily from the screen, and fluid can be exhausted to atmosphere, a blow-down valve on the drain port will allow clean-out without removal of the screen, and without interrupting the process flow.

CONSTRUCTION

- BODY & COVER : CI, CS, SS304, 316SS, OTHER ON REQUEST
- FILTERS SCREEN : ALL STAINLESS 304 & 316
- SIZE : 1/2" TO 4" HIGHER SIZES ON REQUEST
- END CONNECTION : SCREWED END, SOCKET WELD, FLANGED END



- | | | | |
|----|------------|----|------------|
| 1. | BODY | 2. | SCREEN |
| 3. | GASKET | 4. | DRAIN PLUG |
| 5. | BOLTING | 6. | COVER |
| 7. | NAME PLATE | | |



FPS Pvt. Ltd. 'Y' type strainers are available in CAST IRON, Carbon Steel and Stainless Steel. A machined, tapered seat ensures a perfect fit for the removable, stainless steel screen. 2" and larger come complete with flanged blow-off cover, gasket & plug. 1 1/2" and smaller come complete with solid threaded cover and gasket. May be installed in vertical or horizontal pipelines with blow-off connection at the lower end of the screen.

CONICAL STRAINERS

Flow Pump Solutions Pvt. Ltd. provide temporary strainers for tapping foreign particles in the pipe line during startup conical strainers are suitable mounting in between flanges



MATERIAL OF CONSTRUCTIONS

CS, SS304, SS316 Other materials on Request.
Size 1/2" to 24"



CHEMICAL

The presence of a pipeline strainer means a cleaner product, protection of equipment, and simple separation of solids from liquids. By installing a pipeline strainer, noticeable improvements in chemical operations and guaranteed longer running life of equipment are possible.



INDUSTRIAL AND MUNICIPAL WATER

FPS Pvt. Ltd. strainers remove debris from lakes, streams, and wells that can damage or clog equipment. They also remove leaves, insects, feathers, etc. from cooling tower water where the system is open to the atmosphere. For desalinization equipment, they take out unwanted matter from the water before it is treated for salt removal. Spent wastewater often passes through a basket strainer to take out material that should not go into a sewer or a waterway.



PHARMACEUTICALS AND COSMETICS

Ointments, lotions, and similar products, which may contain clumps of undispersed or undissolved matter, are pumped through strainers. In the manufacture of lipstick, for instance, unwanted lumps can ruin the product.



PETROLEUM

Pipeline strainers clean unwanted material from petroleum products ranging from crude oil to gasoline. Fuel oil can contain gums, tars or other dirt that can plug the nozzles of an oil burner. Every industrial oil burner is equipped with a strainer to screen these out. Similarly, refineries use strainers in oil handling operations to keep debris away from pumps and meters.



PULP AND PAPER

Smooth paper finishes require that coatings be free of pigment clumps. Strainers in the coating lines catch and retain the lumps. They also clean traces of pulp or paper from white water effluent before it is discharged.



PROCESS EQUIPMENT

By installing a pipeline strainer ahead of expensive process equipment, the strainers protect against damage from scale, dirt, or by-products, Preventing costly shutdowns. Heat exchangers, condensers, and pumps use strainers on their intake sides. Pipeline strainers keep flow meters and spray nozzles from clogging.



POWER GENERATION

The electric power industry uses strainers to clean water for cooling and to protect equipment. They also strain transformer oil to avoid clogging of the circulating lines.



PAINT, INK, LATEX

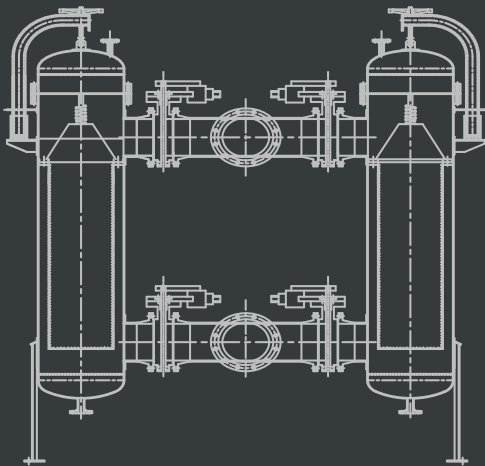
Undissolved lumps of resin, skins, or clumps of pigment can ruin costly coating products. They are hard to detect, yet easy to avoid when using FPS Pvt. Ltd. strainers.



FOOD INDUSTRY

Strainers remove bits of pulp, skins, or other unwanted matter from fruit juices. They remove lumps from chocolate syrup and wax from honey. The baking industry strains bone and gristle from molten lard with basket strainers, and uses them to remove bits of dough, seeds, etc. from discharge water. Straining water allows it to be recycled and used for other purposes.





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