



General

F9001 Series Strainer can eliminate the impurities and other sundries from the liquid so that the normal running of the flowmeter can be ensured and the service life of the flowmeter can be prolonged. Hence, it is a necessary flowmeter device used in petroleum and chemical industry. Various types of the filters produced by our company are available. The specifications of the products are complete, the structure is new, the function is reliable & safe, the operation is convenient and the installation/uninstalling is fast, and so on.

Description

Strainers are installed in pipe lines ahead of meters, pumps, valves, etc., to protect such equipment against intrusion of pipe scale, welding spatter and other foreign material. The use of the proper size strainer together with a basket of suitable mesh pays dividends in reduced maintenance on mechanisms which are in contact with flowing liquids.

When it is known that comparatively large amounts of lint or iron oxide are present in a stream, a large strainer should be used as these materials clog up basket screens rapidly-especially if resins, gums or varnishes are also present.

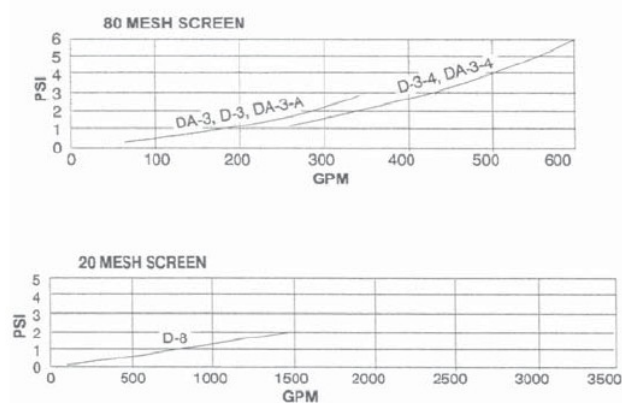
Larger size foreign matter such as pebbles, welding beads, etc., should be removed at frequent intervals

to prevent their abrasive action from damaging the basket screen.

Strainers are available in sizes 2" to 24" for maximum working pressures to 908 psi. There is a Strainer of the proper size and pressure rating to accommodate the full line of Flow Meters. For large capacity and high pressure strainers, refer to DSBVBS.



Series 9001 Common strainer



Graph 1: Pressure Drop Handling Diesel oil

Specifications

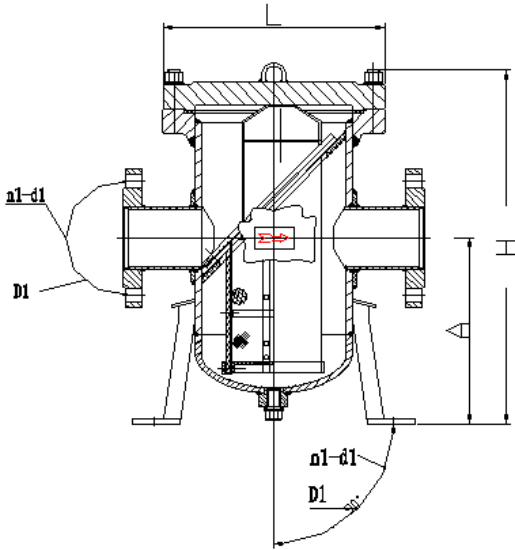
Nominal Diameter (mm): 15, 25, 40, 50, 80, 100, 150, 200, 250, 300
Nominal Pressure : 16, 25, 40, 64 Bar
Mesh Size: 40 (Standard); 20; 10
Mesh Material: SS 304 (standard) SS 316 for option
Fluid Temperature: 0°C ~ +80°C, 0°C ~ +120°C,
0°C ~ +150°C, 0°C ~ +250°C
0°C ~ +350°C

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Graph 2: Outline Dimension



Notes:

- * Mesh of screen as shown in chart above is standard. Special mesh is available at extra cost
- ** Percent open area for some special screens is as follows:
 10 Mesh - 46.2 Percent
 100 Mesh - 30.3 Percent
 Percent open area depends on wire size and may vary slightly.
 Strainer screen material for all strainers is stainless steel.

Dimension & Weight: Straight Tube Strainer (Only for Size DN50 to DN300)

Nominal Diameter (mm)	Nominal Pressure (Bar)	Flange to Flange L (mm)	Install Height A (mm)	Mesh Size	Installation Dimension (mm)			Total Height H (mm)	Flange Dimension (mm)			Weight (kg)
					D	Bolt			D1	Bolt Hole		
						n	φ d			n	φ d1	
50	16	320	237	20 40	310	3	18	455	125	4	18 23	34
	25											
	40											
	64											
80	16	420	260	20 40	335	3	20	580	160	8	18 23	78
	25											
	40											
	64											
100	16	520	315	20 40	385	3	20	668	180	8	18 23 25	115
	25											
	40											
	64											
150	16	720	500	20 40	520	3	23	940	240	8	23 25 34	180
	25											
	40											
	64											
200	16	800	538	10 20	634	3	23	1070	295	12	23	400
	25								25			
	40								30			
	64								34			
									345		34	
250	16	1000	580	10 20	658	3	23	1134	355	12	53	1000
	25								25			
	40								34			
	64								41			
									400		41	
300	16	1070	1050	10 20	670	3	33	1800	410	16	25	2000
	25								30			
	40								34			
	64								41			
									460		41	

Strainer Baskets

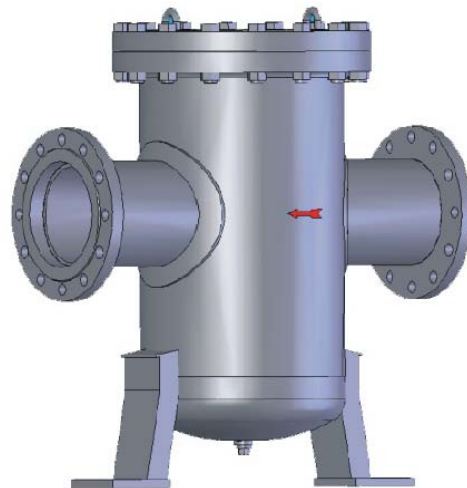
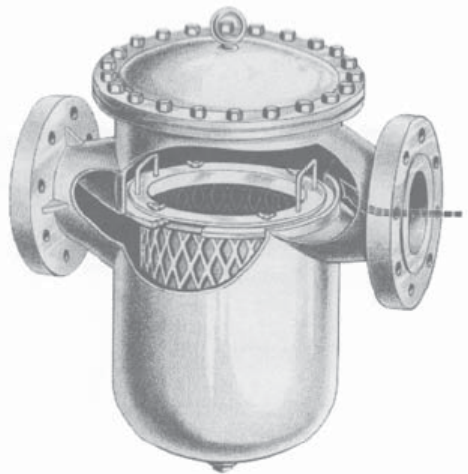
To be efficient, strainer baskets must be kept clean. A buildup of sediment increases pressure drop and decreases flow. If a basket is allowed to become completely clogged, damage will result. Pressure gauges on each side of the strainer - or a differential pressure gauge - give an indication of basket condition at a glance.

A regular procedure should be set up for cleaning strainer baskets-the frequency depending on amount and character of foreign material in the stream. It is advisable to keep a spare basket (or inner screen) on hand.

Recommended Mesh Of Screens For Various Liquids:

Gasoline and similar liquids, 60 Mesh for 3", 4", and 6" strainers.

Diesel Oil, No. 2 Oil, etc. - 40 Mesh No. 5 or No. 6 Heating Oils, etc. - 20 Mesh



Graph 3 Inner strainer basket



- Type of liquid** We need the name of your liquid, including operating density and viscosity
- Full Scale Flow** We need your maximum and minimum flow rates
- Line Size** we need to know your pipe size as well connection type (flange, threaded, etc..)
- Pressure drop** Please indicated the maximum pressure drop that your process can withstand

F9001 Series Strainer							
Example: F9000-40AN1SSCS	DN(mm)	Connection	PN	Jacket	Temp.	Description	
1/2"	15					Size	
1"	25						
1-1/2"	40						
2"	50						
3"	80						
4"	100						
6"	150						
8"	200						
Special order	S						
ANSI		AN				Connections options	
DIN		DI					
JIS		JI					
Special order		S					
1.6 MPa			1			Process Pressure	
2.5 MPa			2				
4.0 MPa			3				
6.4 MPa			4				
Special Order			S				
Standard				S		Thermal Jacket	
Thermal Jacket				T			
0~150℃					S	Process Temperature	
0~250℃					H		
Special Order					P		
Cast Steel						CS	Materials
SS304						S4	
SS316						S6	