



Stainless Steel Strainers TSSY

Type	TSSY
Sizes	1/2", 3/4", 1", 1-1/4", 1-1/2", 2"
Connections	NPT or SW to ANSI B16.11
Construction	Investment Cast Stainless Steel Type 316L
**Max Saturated Steam Pressure	300 PSI @ 420°F
*Screen	1/32" perf. (.033)

*Note: 28% open area
** See Fig16 HP, TI-P169-08 ASME Class 800 Strainer for higher pressures

C_v Values

Size	C _v
1/2"	9.4
3/4"	18.0
1"	30.0
1-1/4"	45.0
1-1/2"	63.0
2"	98.0

For water:

$$\text{Pressure Drop} = \frac{(\text{GPM})^2}{(\text{C}_v)^2}$$

Consult factory for other liquids.

See TI-7-429 for pressure drops on steam, air and other gases.

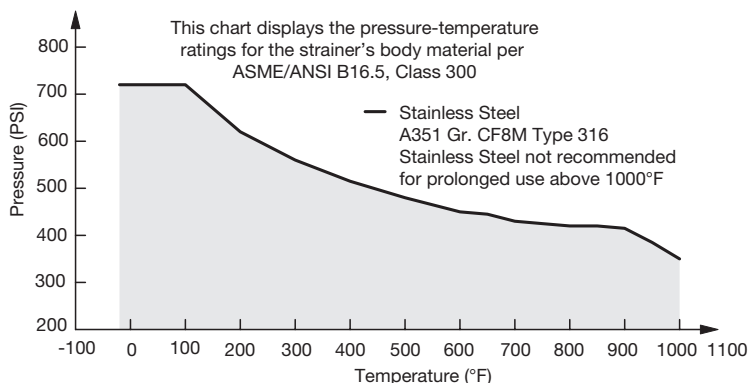
Bill of Materials¹

No.	Part	Material
1	Body	ASTM A351 GR: CF8M Type 316
2	Bonnet	ASTM A351 Gr. CF8M Type 316
3	Screen ²	Stainless Steel
4	Gasket	PTFE
5	NPT Plug	Stainless Steel

¹ Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion.

² Denotes recommended spare parts.

Pressure Temperature Ratings



Pressure/Temperature Rating¹

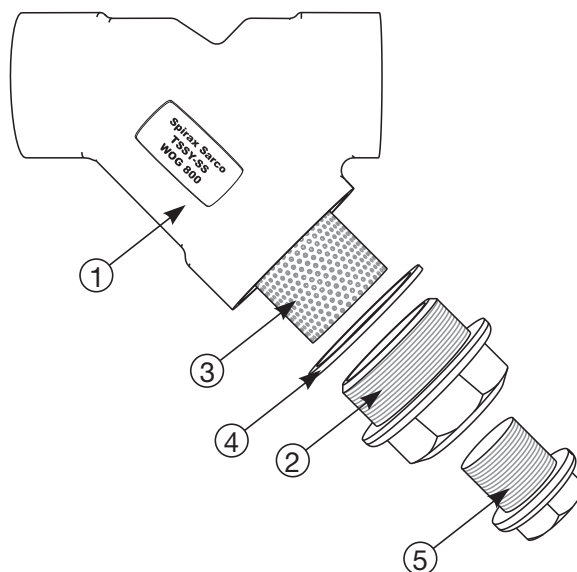
SS - ASTM A351 GR. CF8M

WOG (Non-shock): 720 PSI @ 100 °F

Saturated Steam: 300 PSI @ 420 °F

Maximum Liquid: 350 PSI @ 1000 °F

¹ The above listed temperatures are theoretical and may vary during actual operating conditions.

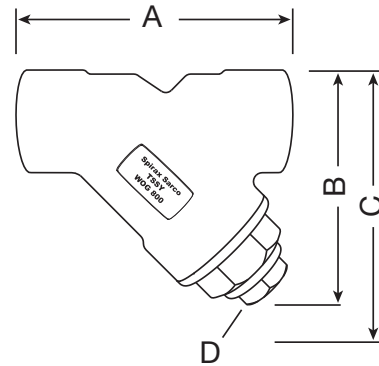


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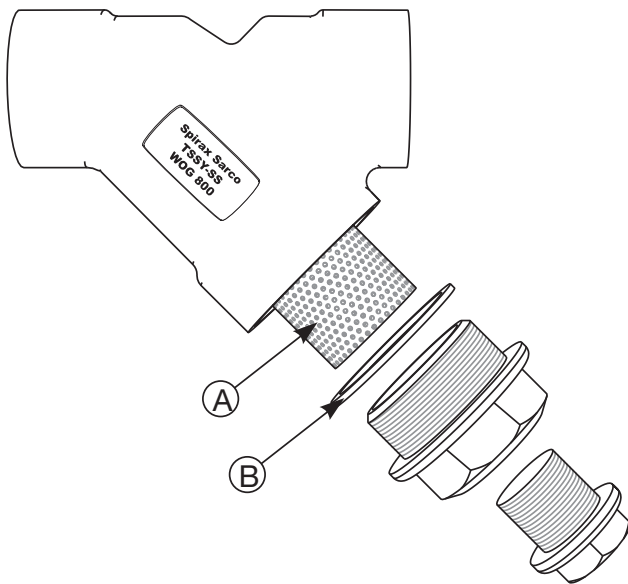
TSSY

Dimensions

Size	in	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
A DIMENSION FACE TO FACE (NPT) (2)	in	2.55	3.14	3.54	4.13	4.72	5.25
	mm	65	80	90	105	120	133
A DIMENSION FACE TO FACE (SW) (2)	in	2.55	3.14	3.54	4.13	4.72	5.51
	mm	65	80	90	105	120	140
B DIMENSION CENTER LINE TO BOTTOM (NPT)	in	2.00	2.36	2.83	3.03	3.42	4.06
	mm	51	60	72	77	87	103
B DIMENSION CENTER LINE TO BOTTOM (SW)	in	2.00	2.36	2.83	3.03	3.42	4.05
	mm	51	60	72	77	87	103
C DIMENSION SCREEN REMOVAL	in	2.50	3.25	3.75	4.25	4.75	5.50
	mm	64	83	95	108	120	140
D DIMENSION NPT PLUG (BLOW OFF)	in	1/4	3/8	3/8	3/4	3/4	1
	mm	8	10	10	20	20	25
APPROXIMATE ASSEMBLED WEIGHT	lb	0.5	1.0	1.5	2.0	2.5	4.0
	kg	0.2	0.5	0.7	0.9	1.1	1.8



Spare Parts



Strainer Screen

A

Cap Gasket

B

Installation

The strainer should be installed with the flow direction as indicated on the body, in a vertical down or horizontal pipeline. The strainer must be accessible for periodic removal of accumulated debris, by either blowing down or removal and cleaning of the screen.