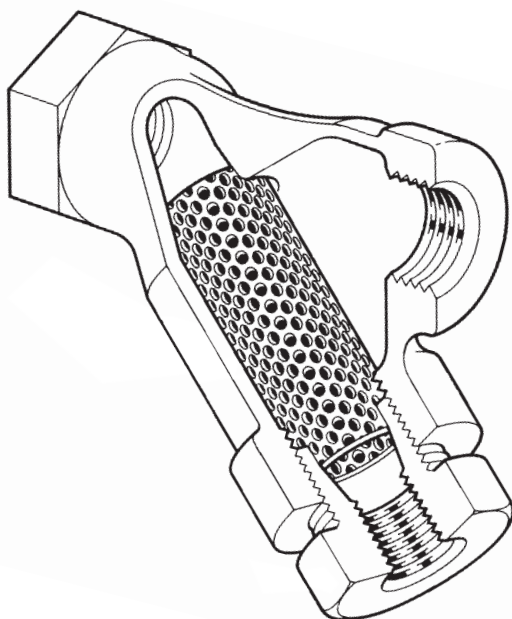


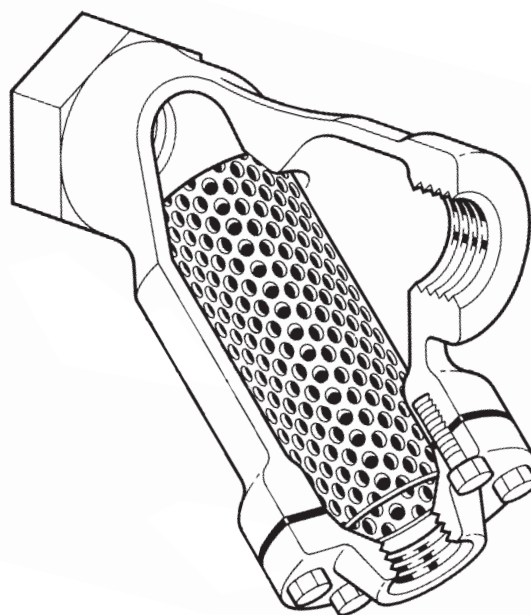


TI-P201-05-US
Issue 1

Cast Iron Strainers IT



1/4" to 2"



2 1/2" and 3"

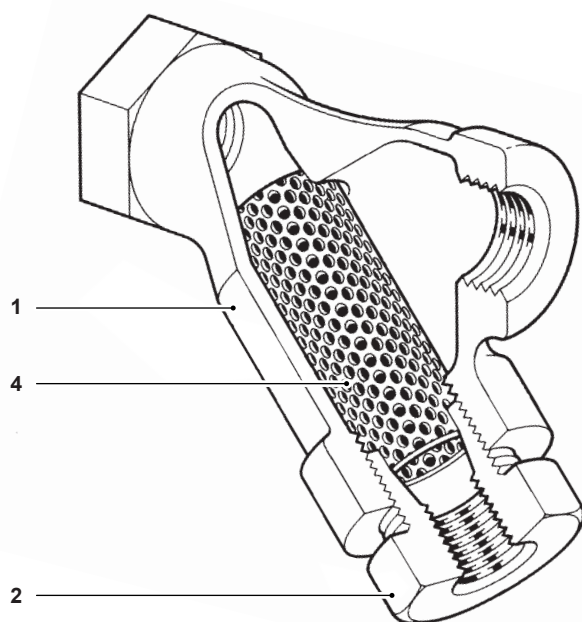
Type	IT
Sizes	1/4" to 3"
Connections	NPT
Construction	Cast Iron
Maximum saturated steam pressure	250 psi g (17.2 bar g)
Standard screen	20 Mesh
Options	SW Connections Steel Plug

Note: 3/8" - 3" IT conforms to WW-S-2739 when equipped with an optional brass plug in the blow-off connection.

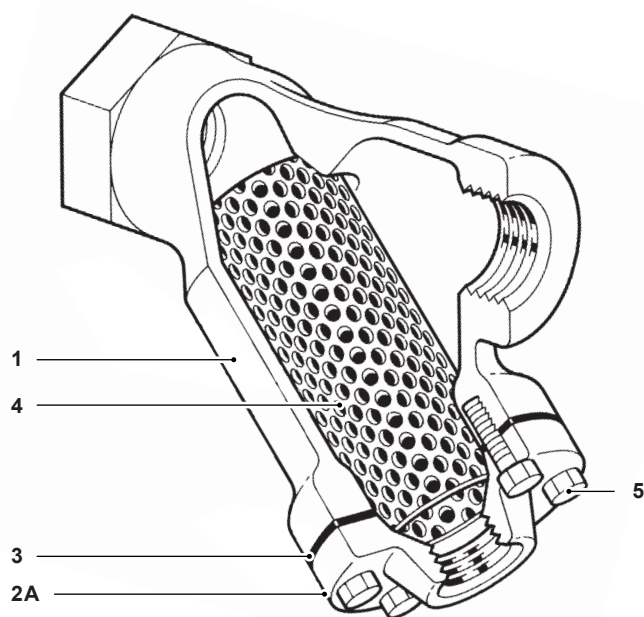
Pressure shell design conditions

Maximum allowable pressure	300 psi g/-20 to +150 °F	(21 bar g/-29 to +66 °C)
Maximum allowable temperature	406 °F/0-250 psi g	(208 °C/0-17 bar g)

Materials



1/4" to 2"



2 1/2" and 3"

No.	Part	Material	
1	Body	Cast Iron	ASTM A 126 CL B
2	Bushing (1/4"-2")	Malleable Iron	
2A	Cap (2 1/2"-3")	Cast Iron	ASTM A 126 CL B
3	Cap Gasket (2 1/2" and 3")	Graphite	
4	Standard Screen	Stainless Steel Type 304	
5	Cap Screws (2 1/2" and 3")	Steel	ASTM A 449

Cv values and free area (standard Screen)

Size	Cv	Free Area (sq. in.)
1/4"	3.5	1.37
3/8"	3.5	1.37
1/2"	6.5	2.20
3/4"	11.5	4.0
1"	20	5.2
1 1/4"	28	6.8
1 1/2"	38	9.45
2"	70	12.56
2 1/2"	100	19.05
3"	160	25.93

Consult factory for free areas of optional screens.

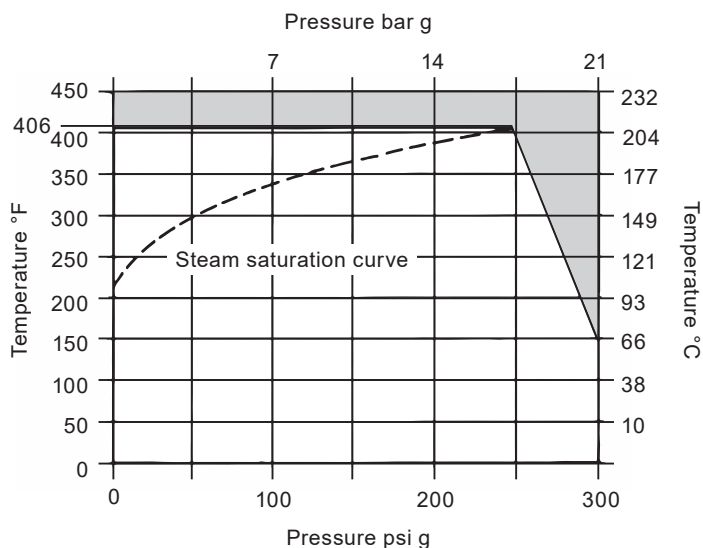
For water:

$$\text{Pressure drop} = \frac{(\text{GPM})^2}{(\text{Cv})^2}$$

Consult factory for other liquids.

See TI-S26-04-US for pressure drops on steam, air and other gases.

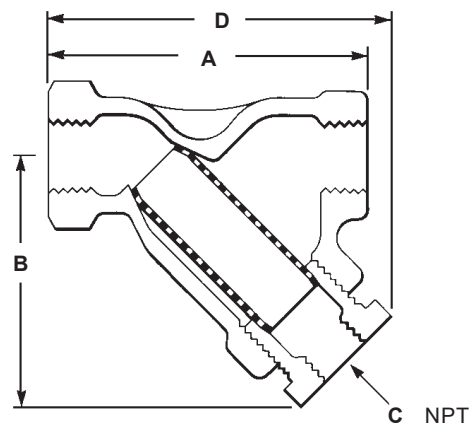
Limiting operating conditions (non-shock)



Installation

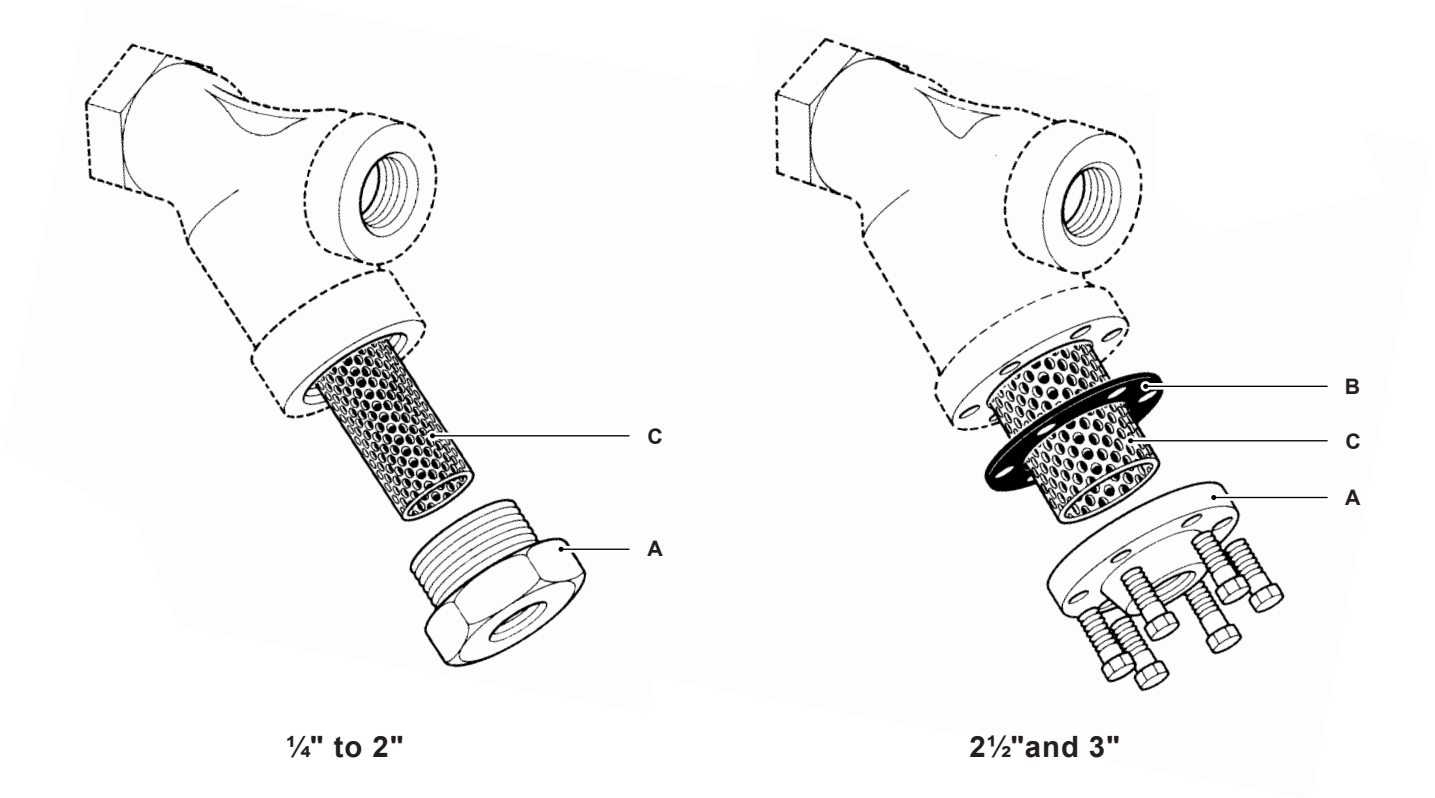
The strainer should be installed with the flow direction as indicated on the body, in a vertical down or horizontal pipeline. The strainer must be accessible for periodic removal of accumulated debris, by either blowing down or removal and cleaning of the screen.

Dimensions/weights (approximate) in inches (mm) and lbs (kg)



Size	A	B	C	D	Weight
$\frac{1}{4}"$ *	3.5 (89)	2.2 (56)	$\frac{1}{4}"$	3.0 (76)	1.0 lb (0.5 kg)
$\frac{3}{8}"$	2.9 (74)	2.2 (56)	$\frac{1}{4}"$	3.0 (76)	1.0 lb (0.5 kg)
$\frac{1}{2}"$	3.4 (86)	2.7 (69)	$\frac{3}{8}"$	3.9 (99)	1.2 lb (0.6 kg)
$\frac{3}{4}"$	4.4 (112)	3.4 (86)	$\frac{1}{2}"$	4.6 (117)	2.9 lb (1.3 kg)
1"	4.9 (124)	3.5 (89)	$\frac{3}{4}"$	5.0 (127)	4.3 lb (2.0 kg)
1- $\frac{1}{4}"$	5.4 (137)	4.1 (104)	1"	5.75 (146)	6.5 lb (2.9 kg)
1- $\frac{1}{2}"$	6.4 (163)	4.7 (119)	1- $\frac{1}{4}"$	6.6 (168)	9.6 lb (4.4 kg)
2"	7.5 (191)	5.4 (137)	1- $\frac{1}{2}"$	7.75 (197)	12.9 lb (5.9 kg)
2- $\frac{1}{2}"$	9.0 (229)	6.4 (163)	1- $\frac{3}{4}"$	8.25 (210)	22.0 lb (10.0 kg)
3"	10.0 (254)	7.6 (193)	1- $\frac{3}{4}"$	10.25 (260)	35.0 lb (15.9 kg)

Spare parts



Screen (state material, perforations or mesh and size of strainer)		C
Cap Gasket	2½" and 3"	B
Blowoff Bushing	¾" - 2"	A
Cap	2½" and 3"	A