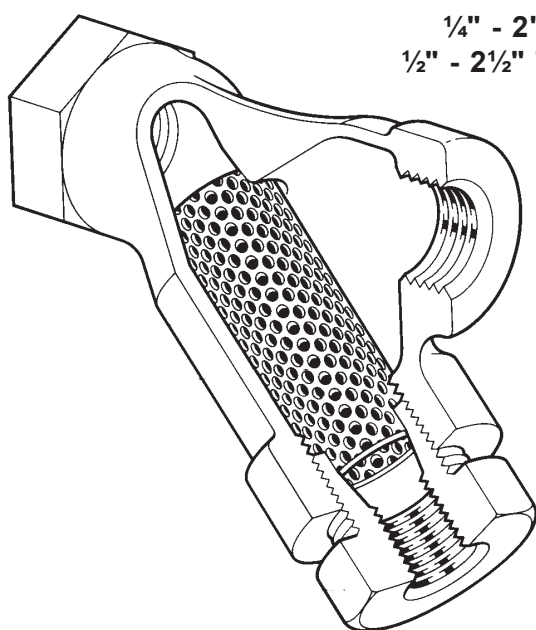
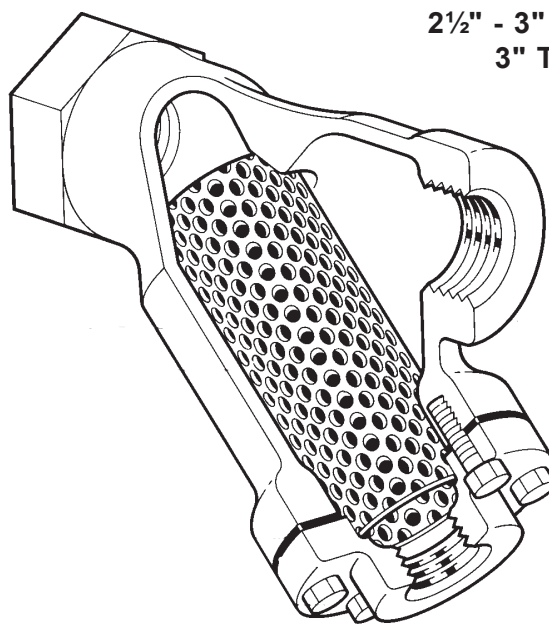




Bronze Strainers BT, TBT



1/4" - 2" BT
 1/2" - 2 1/2" TBT



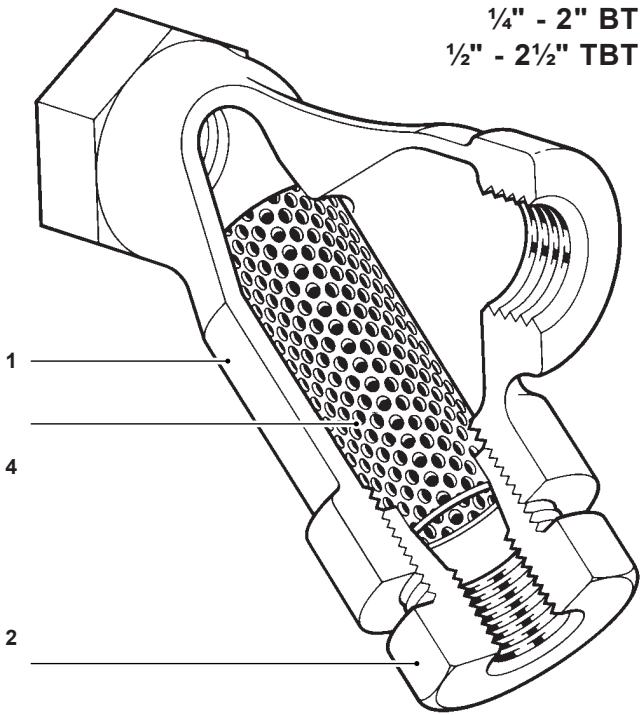
2 1/2" - 3" BT
 3" TBT

Type	BT	TBT
Sizes	1/4" to 3"	1/2" to 3"
Connections	NPT	Sweat tubing
Construction	Bronze	
Maximum Saturated Steam Pressure	250 psi g	
Standard Screen	20 Mesh	
Options	Bronze Plug; 60 Mesh Screens	

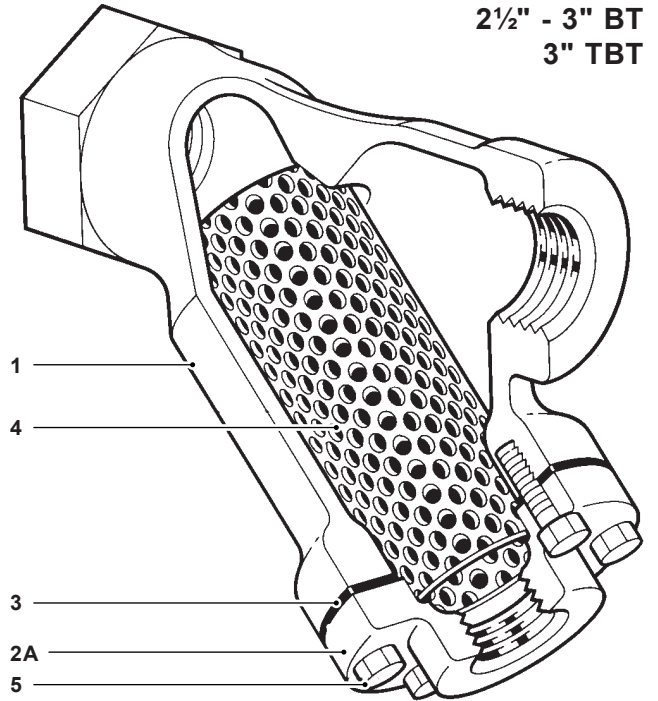
Pressure shell design conditions

Maximum allowable pressure	400 psi g/-20-150 °F (26 bar g/-66 °C)
Maximum allowable temperature	406 °F/0-250 psi g (208 °C/17 bar g)

Materials



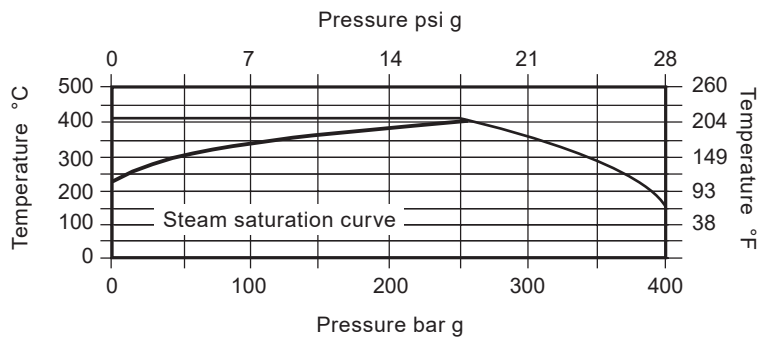
1/4" - 2" BT
1/2" - 2 1/2" TBT



2 1/2" - 3" BT
3" TBT

No.	Part	Material	
1	Body	Bronze	ASTM B 62
2	Bushing 3/8" - 2" BT 1/2" - 2 1/2" TBT	Bronze	ASTM B 62
2A	Cap 2 1/2", 3" BT 3" TBT	Bronze	ASTM B 62
3	Cap gasket 2 1/2", 3" BT 3" TBT	Graphite	
4	Standard screen	Stainless Steel Type 304	
5	Cap screws 2 1/2", 3" BT 3" TBT	Steel	ASTM A 449

Limiting operating conditions (non-shock)



Cv Values and free area
(standard Screen)

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

Consult factory for free areas of optional screen.

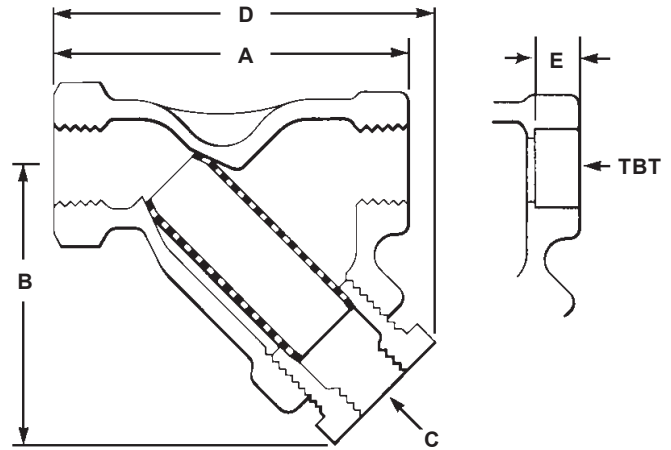
For water:

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

Consult factory for other liquids.

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

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



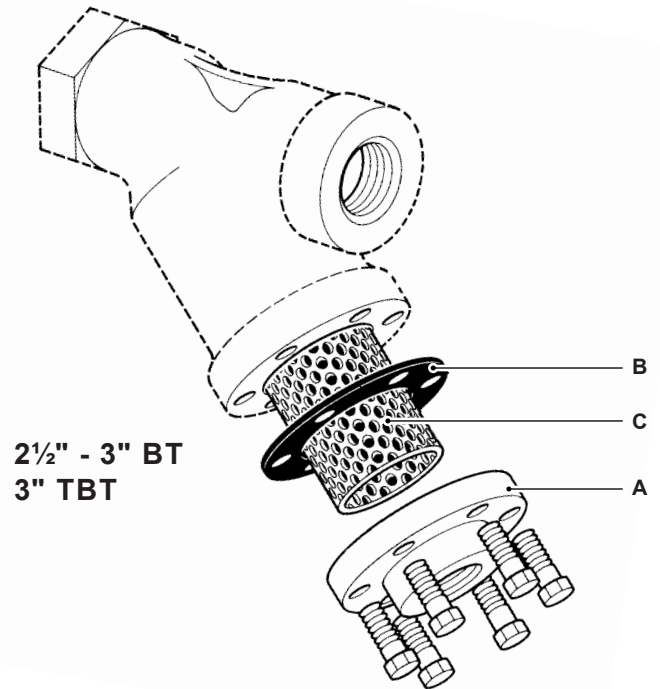
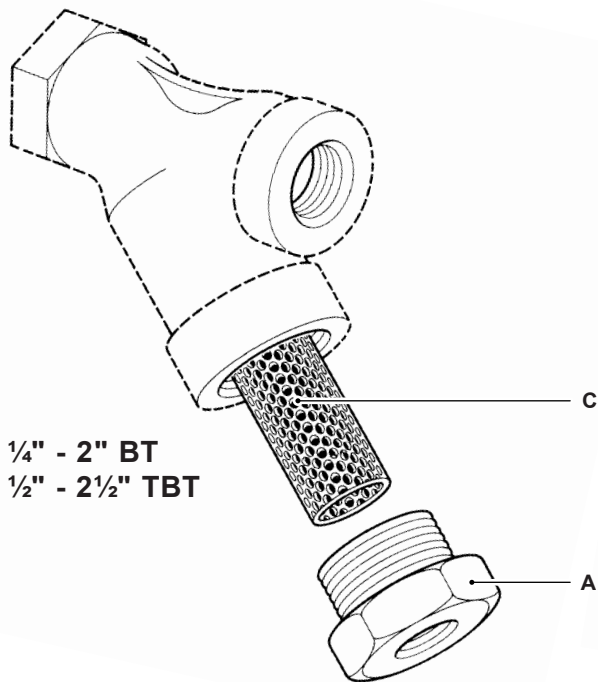
Size		A	B	C	D	E	Weight
BT	TBT						
1/4"	-	3.4 (86)	2.2 (56)	1/4"	3.2 (81)	.31	1 lb (.45 kg)
3/8"	1/2"	2.9 (74)	2.2 (56)	1/4"	3.0 (76)	(7.9)	1 lb (.45 kg)
1/2"	3/4"	3.4 (86)	2.7 (69)	3/8"	3.9 (99)	(11.2)	1.3 lb (.59 kg)
3/4"	1"	4.4 (112)	3.4 (86)	1/2"	4.6 (117)	.5 (12.7)	2.7 lb (1.2 kg)
1"	1-1/4"	4.9 (124)	3.5 (89)	3/4"	5.0 (127)	.63 (16)	3.5 lb (1.6 kg)
1 1/4"	1 1/2"	5.4 (137)	4.2 (107)	3/4"	5.4 (137)	.63 (16)	5.1 lb (2.3 kg)
1 1/2"	2"	6.4 (163)	4.75 (121)	3/4"	6.6 (168)	.69 (17.5)	7.6 lb (3.5 kg)
2"	2 1/2"	7.5 (191)	5.7 (143)	1"	7.9 (201)	.72 (18.3)	13.0 lb (5.9 kg)
2 1/2"	3"	8.6 (218)	6.75 (171)	1 1/4"	9.1 (231)	.88 (22.4)	21.0 lb (9.5 kg)
3"	-	10.1 (257)	7.9 (201)	1 1/4"	10.75 (273)		32.0 lb (14.5 kg)

* 1/4" is 3/8" with Bushings

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.

Spare parts



Screen (state material, size of perf or mesh, and size of strainer)	C
Cap Gasket	B
Blowoff Bushing	A
Cap	A