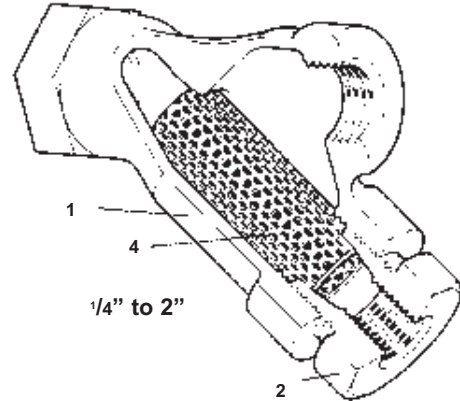


# spirax/sarco

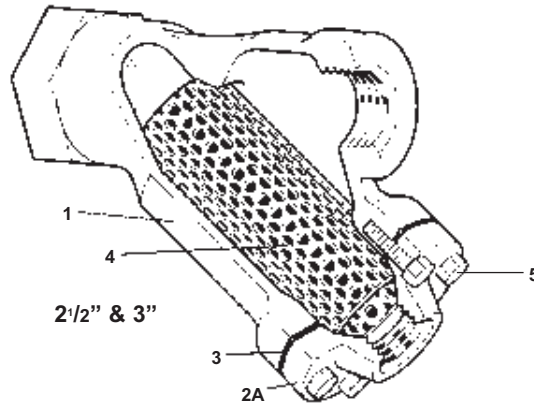
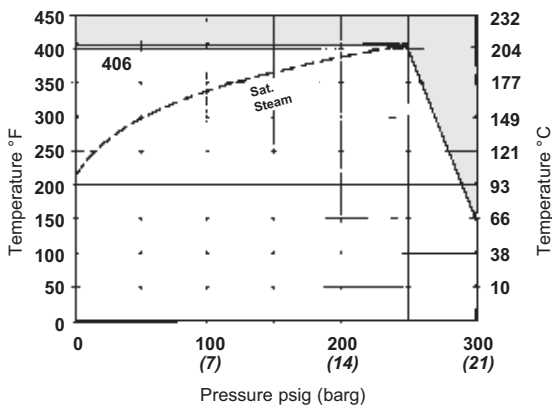
## Cast Iron Strainers IT

Type	IT
Sizes	1/4" to 3"
Connections	NPT
Construction	Cast Iron
Max Saturated Steam Pressure	250 psig
Standard Screen	20 Mesh
Options	60/100 Mesh Screens

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



### Limiting Operating Conditions (non-shock)



### Pressure Shell Design Conditions

Max. allowable pressure	300 psig/-20-150°F	21 barg/-29-66°C
Max. allowable temperature	406°F/0-250 psig	208°C/0-17 barg

### Construction Materials

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" & 3")	Graphite	
4	Standard Screen	Stainless Steel Type 304	
5	Cap Screws (2-1/2" & 3")	Steel	ASTM A 449

### C<sub>v</sub> Values & Free Area (standard Screen)

Size	C <sub>v</sub>	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:

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

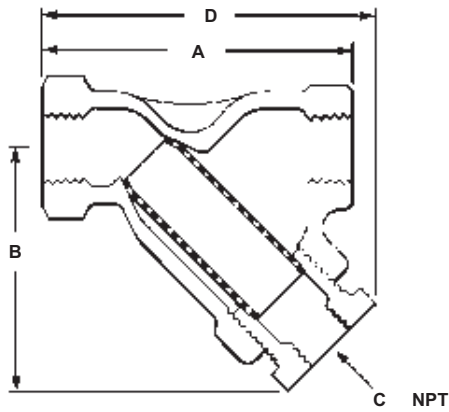
Consult factory for other liquids.

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

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interests of development and improvement of the product, we reserve the right to change the specification.

TI-7-414-US 03.10

# Cast Iron Strainers IT



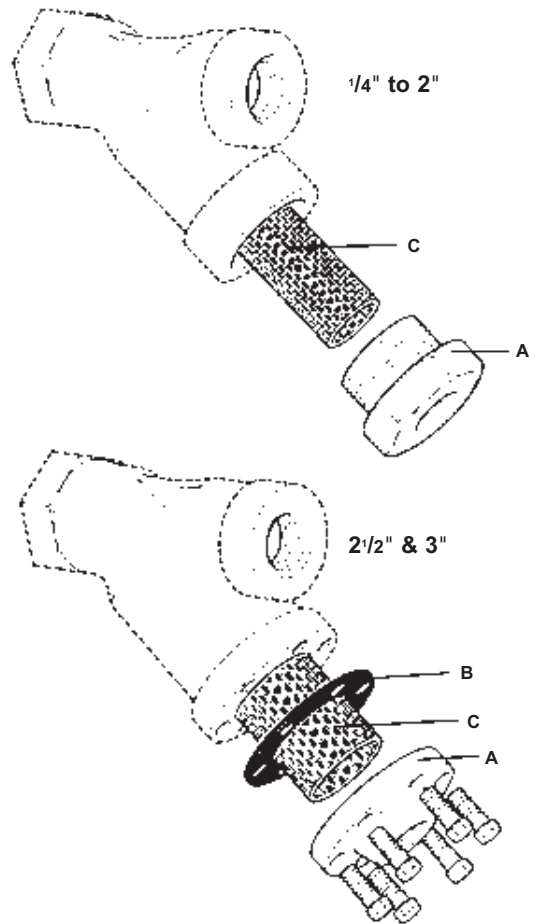
**Dimensions**  
(nominal) in inches and millimeters

Size	A	B	C	D	Weight
1/4" *	3.5 89	2.2 56	1/4"	3.0 76	1.0 lb 0.5 kg
3/8"	2.9 73	2.2 56	1/4"	3.0 76	1.0 lb 0.5 kg
1/2"	3.4 87	2.7 68	3/8"	3.9 99	1.2 lb 0.6 kg
3/4"	4.4 111	3.4 86	1/2"	4.6 117	2.9 lb 1.3 kg
1"	4.9 124	3.5 86	3/4"	5.0 127	4.3 lb 1.9 kg
1-1/4"	5.4 137	4.1 105	1"	5.75 146	6.5 lb 2.9 kg
1-1/2"	6.4 162	4.7 119	1-1/4"	6.6 167	9.6 lb 4.3 kg
2"	7.5 191	5.4 138	1-1/2"	7.75 197	12.9 lb 5.9 kg
2-1/2"	9.0 229	6.4 164	1-1/4"	8.25 210	22.0 lb 10.0 kg
3"	10.0 254	7.6 194	1-1/4"	10.25 260	35.0 lb 15.9 kg

## 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	C
(state material, perforations or mesh & size of strainer)	
Cap Gasket 2-1/2" & 3"	B
Blowoff Bushing, 3/8" - 2"	A
Cap, 2-1/2" & 3"	A