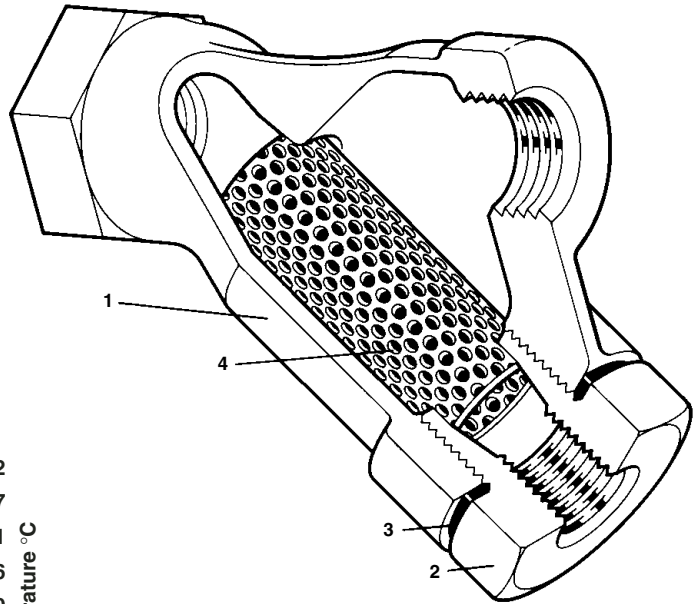


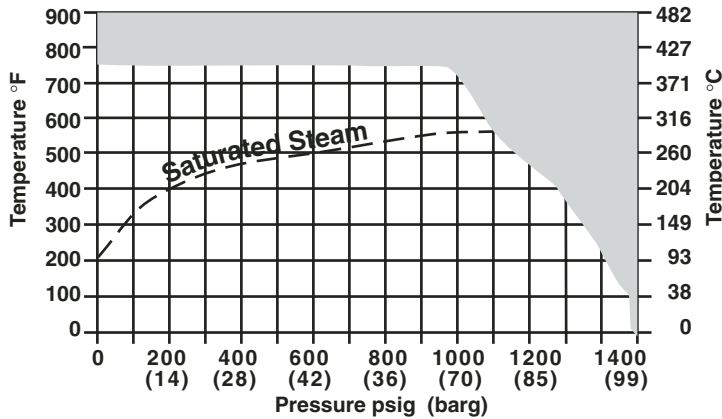
spirax/sarco®

Cast Steel Strainers CT

Type ⇄	CT
Sizes	1/2" to 2"
Connections	NPT
Construction	Cast Steel
Max Saturated Steam Pressure	984 psig
Standard Screen	20 Mesh
Options	60/100 Mesh Screens SW Connections Steel Plug



Limiting Operating Conditions (non-shock)



Pressure Shell Design Conditions

Max. allowable pressure 1480 psig/-20-150°F 102 barg/-29-66°C

Max. allowable temperature 750°F/0-1010 psig 399°C/0-67 barg

Rated to ANSI 600 up to a Maximum Allowable Temperature of 750°F
Complies with ASME B31.3 - Chemical Plant and Refinery Piping.

Construction Materials

No.	Part	Material
1	Body	Steel ASTM A 216 WCB
2	Cap	Steel ASTM A 108 Gr 1117
3	Cap Gasket	Stainless Steel, Type 304 Jacketed Graphite
4	Standard Screen	Stainless Steel, Type 304

Cv Values & Free Area (standard Screen)

Size	Cv	Free Area (sq. in.)
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

Consult factory for free areas of optional screens.

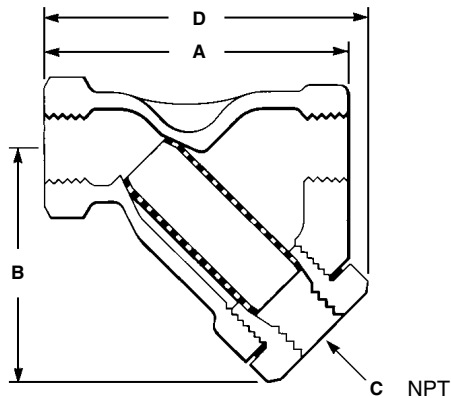
For water:

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

Consult factory for other liquids.

See TIS 7.429 for pressure drops on steam, air and other gases.

Cast Steel Strainers CT

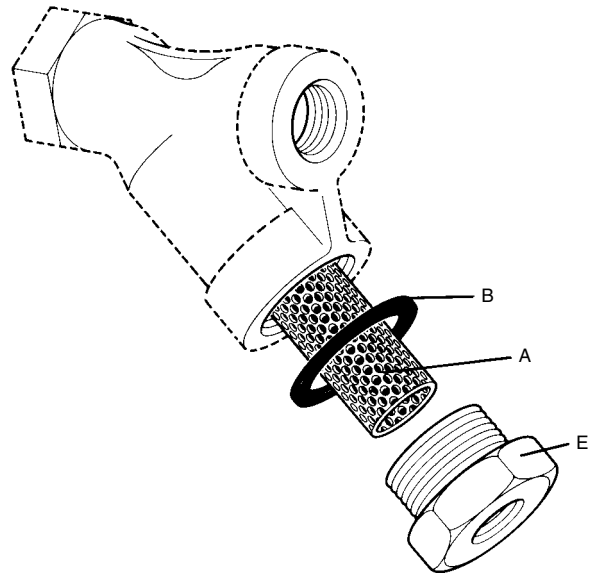


Dimensions (nominal) in inches and millimeters					
Size	A	B	C	D	Weight
1/2"	3.4 87	2.7 70	3/8"	3.75 95	1.5 lb .68 kg
3/4"	4.4 111	3.6 92	3/8"	4.8 122	3.2 lb 1.5 kg
1"	4.9 124	3.8 97	1/2"	5.25 133	3.9 lb 1.8 kg
1-1/4"	5.4 137	4.4 113	3/4"	5.9 151	5.8 lb 2.6 kg
1-1/2"	6.4 162	4.9 124	3/4"	6.8 173	8.5 lb 3.9 kg
2"	7.5 191	5.9 149	1"	8.1 205	14.0 lb 6.3 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 (state material, perforations or mesh & size of strainer)	A
Cap Gasket	B
Blowoff Bushing	E

spirax sarco®

Cast Iron Strainers CI-125, F-125

Type ↔	CI-125		F-125	
Sizes	2" to 3"	4" to 8"	10" & 12"	14" & 18"
Connections	ANSI 125			
Construction	Cast Iron			
Max Saturated Steam Pressure	147 psig		125 psig	100 psig
Standard Screen	20 Mesh	4" to 6" 1/8" perf	8" to 18" 1/8" perf	
Options	60/100 mesh	4" to 6" 3/64" perf	8" to 18" 1/16" perf	Steel or Brass Plug

Note: CI-125 conforms to WW-S-2739 when equipped with an optional bronze plug in the blow-off connection.

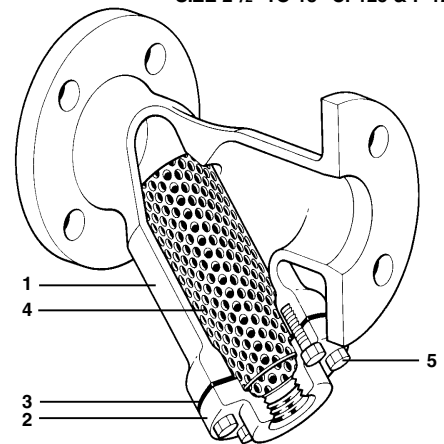
C_v Values

Size	C _v
2"	70
2-1/2"	110
3"	165
4"	280
5"	450
6"	650
8"	1100
10"	1650
12"	2400
14"	3500
16"	5400
18"	6300

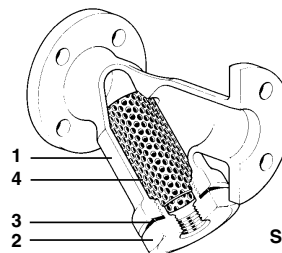
For water:

$$\text{Pressure Drop} = \frac{(\text{GPM})^2}{(\text{Cv})^2}$$
 Consult factory for other liquids.
 See TIS 7.429 for pressure drops on steam, air and other gases.

SIZE 2 1/2" TO 18" CI-125 & F-125

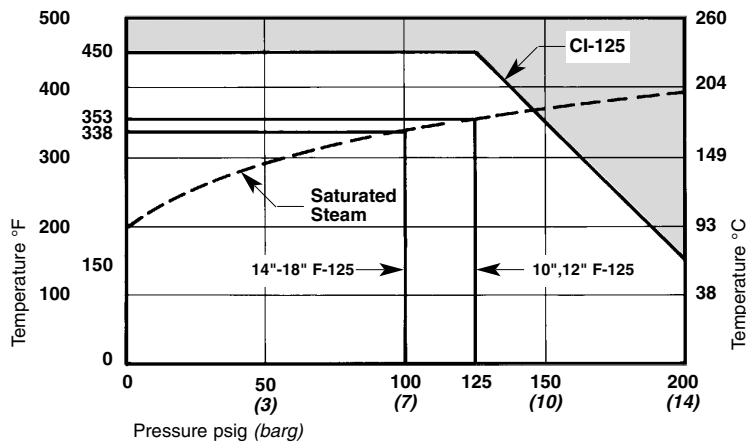


BLOWDOWN
OFFSET ON
SIZES 4" - 8"



SIZE 2" CI-125

Limiting Operating Conditions (non-shock)



Construction Materials

No.	Part	Material
1	Body	Cast Iron
2	Cap/Bushing	Cast Iron
3	Cap Gasket	*Graphite
4	Strainer Screen	Stainless Steel
5	Cap Screws	Steel

*2" - Copper Jacketed Gasket with Non-Asbestos Filler

Pressure Shell Design Conditions

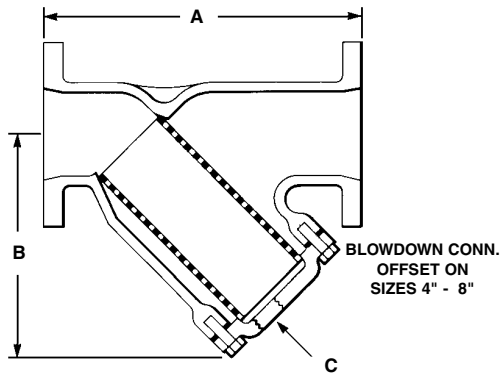
Max. allowable pressure	CI-125: 200 psig/-20-150°F	14 barg/-29-66°C
	10", 12" F-125: 125 psig/-20-353°F	9 barg/-29-178°C
	14", 18" F-125: 100 psig/-20-338°F	7 barg/-29-170°C
Max. allowable temperature	CI-125: 450°F/0-125 psig	232°C/0-9 barg
	10", 12" F-125: 353°F/0-125 psig	178°C/0-9 barg
	14", 18" F-125: 338°F/0-100 psig	170°C/0-7 barg

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-7-415-US 05.02

Cast Iron Strainers

CI-125, F-125

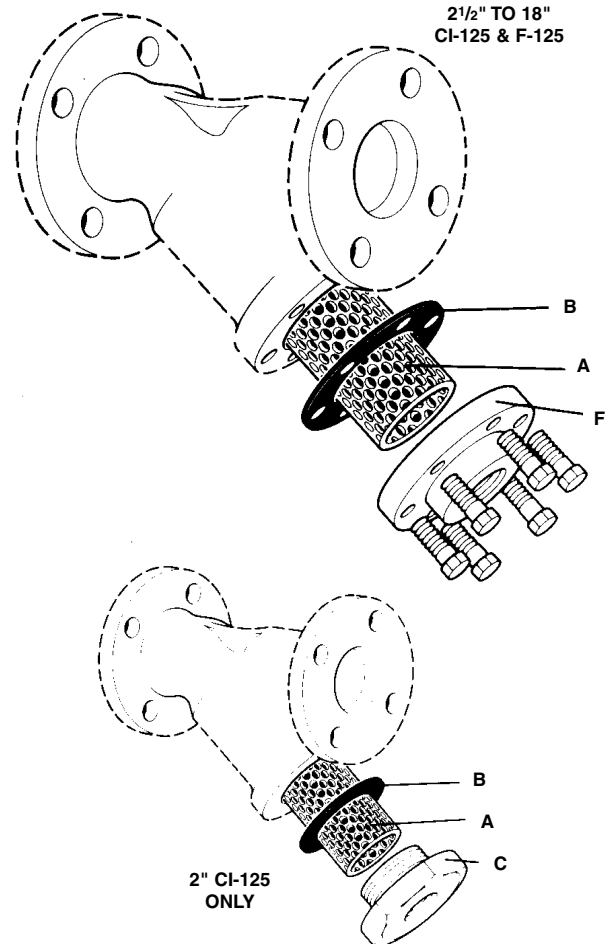


Dimensions (nominal) in inches and millimeters				
Size	A	B	C (NPT)	Weight
CI-125				
2"	8.7 222	5.7 146	1"	17 lb 7.7 kg
2-1/2"	10.5 267	6.7 171	1-1/4"	29 lb 13 kg
3"	12.0 305	7.6 194	1-1/4"	44 lb 20 kg
4"	14.9 378	10.6 270	1-1/4"	82 lb 37 kg
5"	17.2 438	12.9 327	1-1/2"	115 lb 52 kg
6"	20.0 508	15.4 391	1-1/2"	160 lb 73 kg
8"	24.0 610	18.9 481	2"	296 lb 134 kg
F-125				
10"	26.0 660	22.5 572	2"	400 lb 182 kg
12"	33.3 845	26.5 673	2-1/2"	800 lb 363 kg
14"	33.3 845	25 635	2"	863 lb 392 kg
16"	38.8 984	26.5 673	2"	1380 lb 627 kg
18"	43.1 1105	31 788	2"	2272 lb 1032 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 (state material, perforations or mesh & size of strainer)	A
Cap Gasket	B
Blowoff Bushing, 3/8" - 2"	C
Cap	F