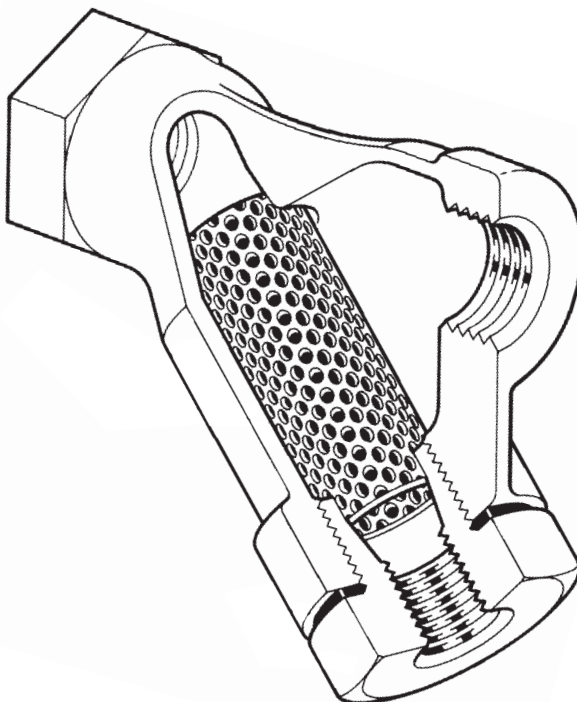




## Carbon Steel Strainers CT



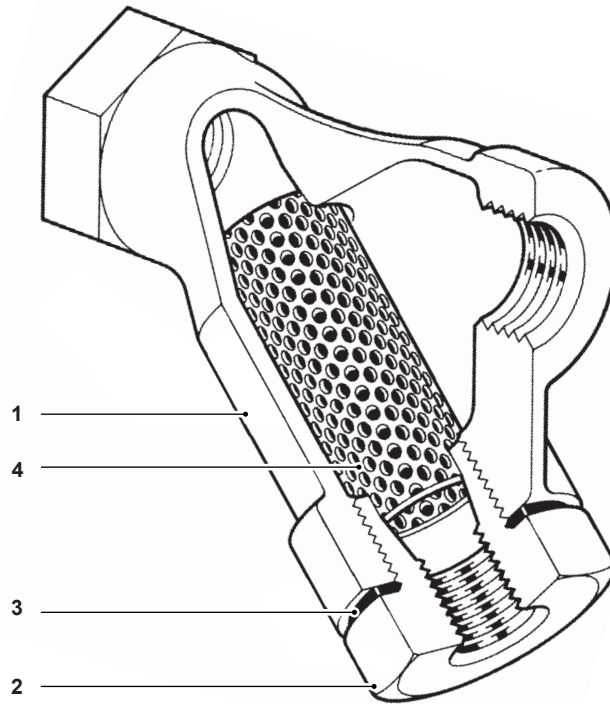
Type	CT
Sizes	½" to 2"
Connections	NPT
Construction	Carbon steel
Maximum saturated steam pressure	984 psi g (67.8 bar g)
Standard screen	20 Mesh
Options	60/100 Mesh Screens SW Connections Steel Plug

### Pressure shell design conditions

Maximum allowable pressure	1480 psi g/-20-150 °F (102 bar g/-29-66 °C)	Designed for a maximum cold hydraulic test pressure of 2,225 psi g (153.4 bar g) Rated to ANSI 600 up to a maximum allowable temperature of 750 °F
Maximum allowable temperature	750 °F/0-1010 psi g (399 °C/0-70 bar g)	

Complies with ASME B31.3 - Chemical Plant and Refinery Piping.

## Materials



No.	Part	Material
1	Body	Carbon steel ASTM A216 GR WCB
2	Cap	Carbon steel ASTM A108
3	Cap gasket	Stainless steel, Type 304 Jacketed Graphite
4	Standard screen	Stainless steel, Type 304

## Cv values and free area (standard screen)

Size	Cv	Free Area (sq. in.)
½"	6.5	2.20
¾"	11.5	4.0
1"	20	5.2
1¼"	28	6.8
1½"	38	9.45
2"	70	12.56

Consult factory for free areas of optional screens.

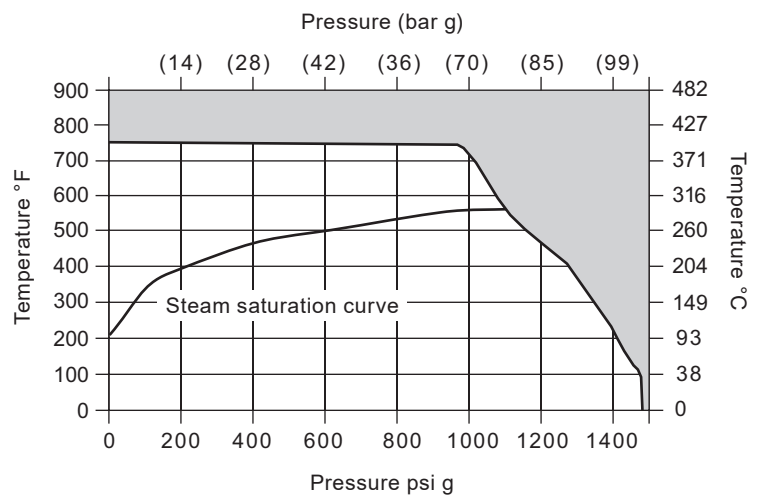
For water:

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

Consult factory for other liquids.

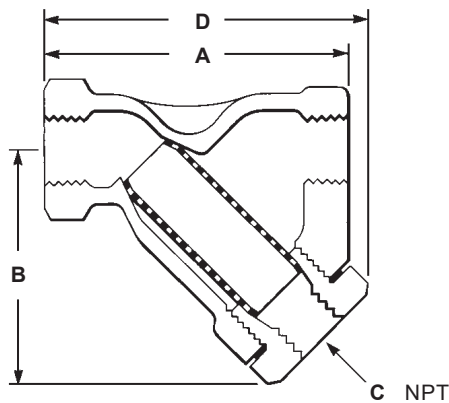
See TI-S26-04-US for pressure drops on steam, air and other gases.

## Limiting operating conditions (non-shock)



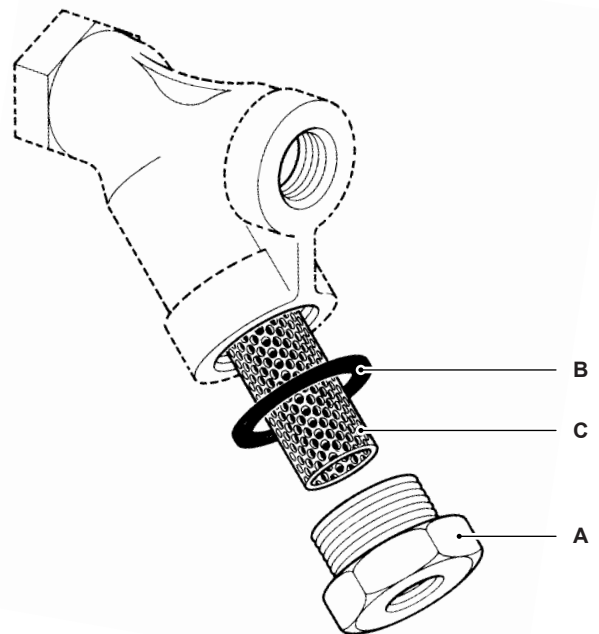
## Dimensions/weights

(approximate) in inches (mm) and lbs (kg)



Size	A	B	C	D	Weight
½"	3.4	2.7	⅜"	3.75	1.5 lb
	(86)	(69)		(95)	(.68 kg)
¾"	4.4	3.6	⅜"	4.8	3.2 lb
	(112)	(91)		(122)	(1.5 kg)
1"	4.9	3.8	½"	5.25	3.9 lb
	(124)	(97)		(133)	(1.8 kg)
1-¼"	5.4	4.4	¾"	5.9	5.8 lb
	(137)	(112)		(150)	(2.6 kg)
1½"	6.4	4.9	¾"	6.8	8.5 lb
	(163)	(124)		(173)	(3.9 kg)
2"	7.5	5.9	1"	8.1	14.0 lb
	(191)	(150)		(206)	(6.3 kg)

## Spare parts



Screen (state material, perforations or mesh and size of strainer)	<b>C</b>
Cap gasket	<b>B</b>
Blowoff bushing	<b>A</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.

## Specification

Spirax Sarco CT Y-Pattern Strainers: Maximum working steam pressure 984 psig; carbon steel body, type 304 stainless-steel screen with 20 mesh stainless steel screen. NPT connections for ½" through 2".