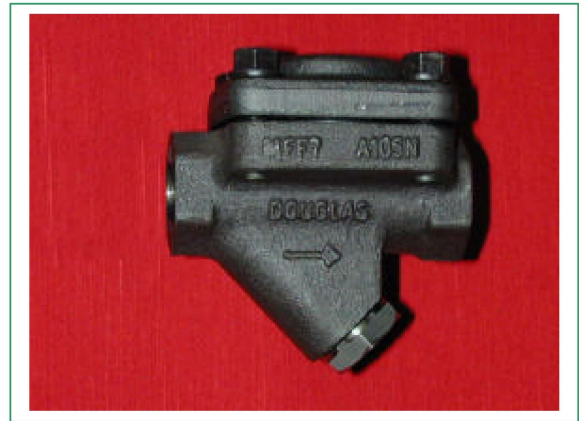


BALANCED PRESSURE

The operating principle is based on the expansion and contraction of a temperature sensitive capsule. The elements are filled with a liquid whose saturation temperature is lower than that of water, at the same pressure. With subcooled condensate the elements contract. When steam is formed the pressure inside the element causes expansion to close the valve.



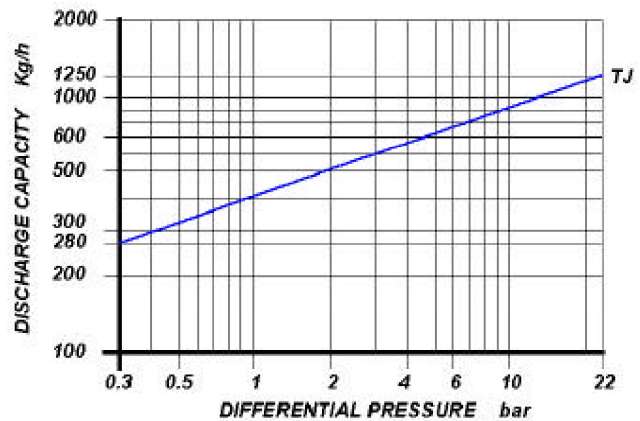
MAIN FEATURES

Free air discharge. It withstands frost. Discharge of condensate slightly below steam temperature. It does not withstand waterhammer

APPLICATIONS

- Steam mains
- Presses
- Tanks
- Suction heaters
- Ovens

DISCHARGE CAPACITY



Cold water capacities are 2 to 4 times greater than the above.
Safety factor = 1.2 – 1.5

SIZES

½" – ¾" – 1"

CONNECTIONS

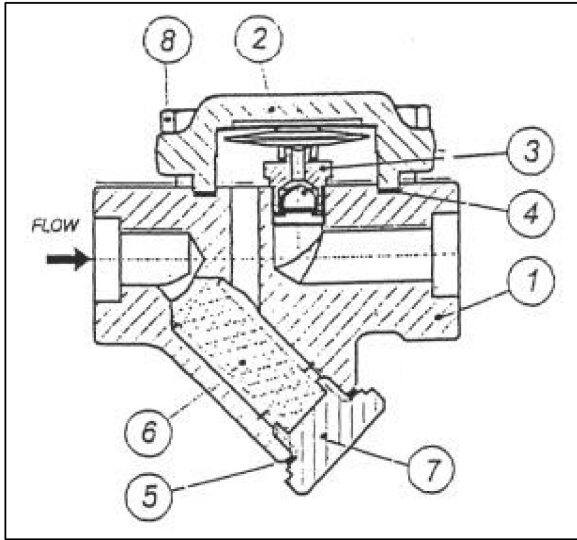
Screwed	ANSI B1.20.1 (NPT) / BS21 (BSP)
Socket Welding	ANSI B16.11
Flanged	ANSI B 16.5 / UNI/DIN

LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	400°C
Max. operating condition	32 bar - 250°C
Max. differential pressure	14.5 bar - 390°C
	22 bar

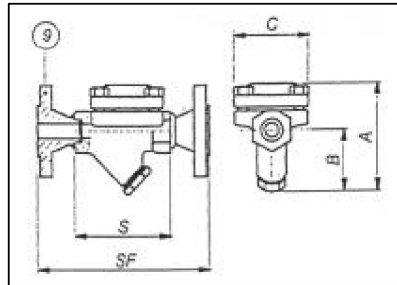
BALANCED PRESSURE THERMOSTATIC STEAM TRAPS

TJ



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 105	
2	Cover	ASTM A 105	
3	Seat / Capsule **	STAINLESS STEEL	X
3	Membrane	HASTELLOY	X
3	Check valve *	STAINLESS STEEL	X
4	Cover gasket	316 / GRAPHITE	X
5	Gasket	316 / GRAPHITE	X
6	Screen	AISI 304	X
7	Plug	ASTM A 105	
8	Bolt	ASTM 193 B 7	
* Optional			
** STANDAR CAPSULE : (10°C) subcooling			
CAPSULE OPTIONS : (5°C – 30°C – 40°C) subcooling			

Flanged													
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	93	105	60	70	1.8	159	4.8	153	4.8	173	4.8	183	4.8
¾"	93	105	60	70	1.8	163	5	163	5	183	5	193	5
1"	105	115	70	70	3	175	6.5	185	6.5	195	6.5	215	6.5



INSTALLATION

The steam trap can be installed on horizontal or vertical lines. However avoid installation with the body leaning on one side as it is likely that the cover will contain condensate at two different temperatures causing malfunction and possible distortion of the element. Do not fit the trap upside down since this position will not allow the cleaning of the strainer screen.

HOW TO SERVICE

By installing a new capsule you can bring the TJ steam trap to the "as new from factory" condition. This operation is carried out in a few minutes without removing the trap in the pipeline. Unscrew the 4 screw (8) and remove cover (2) and gasket (4). Unscrew element (3). Clean the inside of the trap and screw in the capsule. Fit a new gasket (4) and reinstall cover (2) tightening the screw (8). To service the strainer, unscrew plug (7), withdraw screen (6) and clean or replace it. Screwing the cover back in place, always fit a new gasket (5).

How to order: i.e. TJ ½" NPT

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