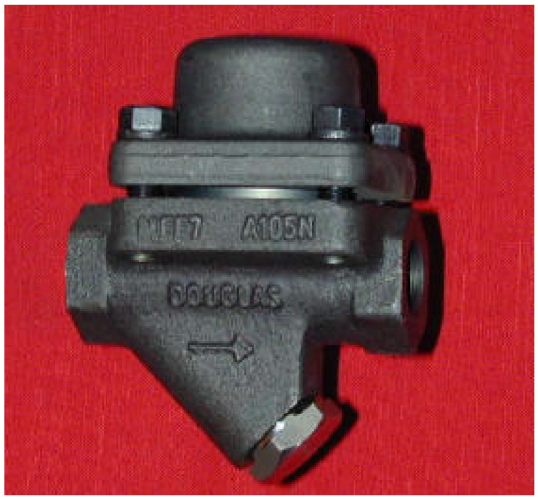
DOUGLAS ITALIA S.P.A.

BIMETALLIC THERMOSTATIC STEAM TRAPS

BF

BIMETALLIC THERMOSTATIC

The operating principle is based on a balance between the steam force (pressure related) trying to open the discharge valve and the bimetal force (temperature related) which acts to close it. At saturated steam temperature the bimetal force keeps the valve closed, while with subcooled condensate the pressure opens the valve.



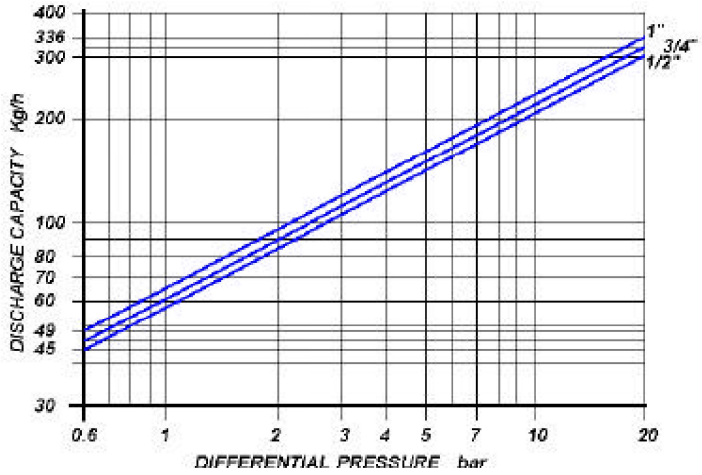
MAIN FEATURES

Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.

APPLICATIONS

- *Tracing lines*
- *Marine applications*
- *Turbines*
- *Steam mains*
- *Tanks*

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 WELD	ANSI B16.11
FLANGED	ANSI 150#/300#/600#/UNI/DIN

LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 300
PMA: Max allowable pressure	50 bar
TMA: max allowable temperature	390°C
PMO: max working pressure	20 bar
TMO: max working temperature	350°C

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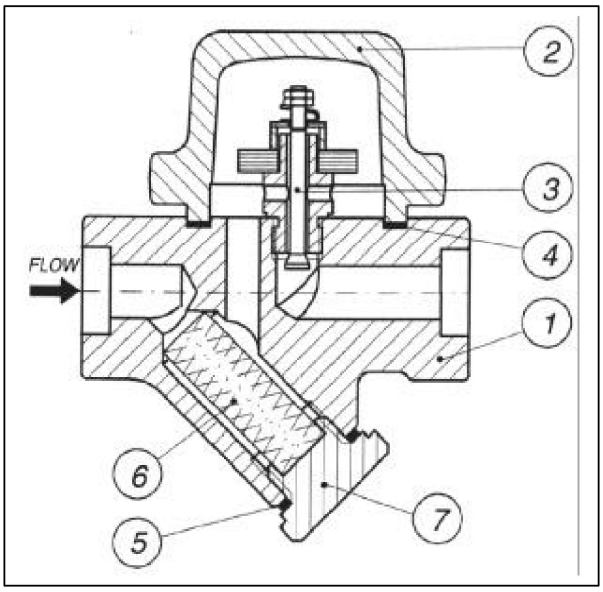
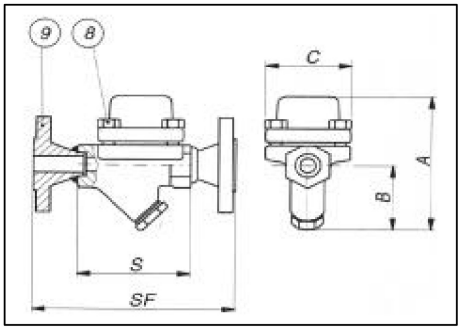


POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A105	
2	Cover	ASTM A105	
3	Valve assembly	STAINLESS STEEL	X
4	Gasket	316 / GRAPHITE	X
5	Gasket	316 / GRAPHITE	X
6	Screen	AISI 304	X
7	Strainer cap	ASTM A105	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A193 B7	
9	Flange	ASTM A105	
* Optional			

Flanged													
Size (inches)	S	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
						SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	93	120	60	70	2.5	159	4.1	153	5.7	173	4.1	183	4.3
¾"	93	120	60	70	2.5	163	4.9	163	4.1	183	5.3	193	5.7
1"	105	130	70	70	3.5	175	6.3	185	3.9	195	6.9	215	7.3



INSTALLATION

The steam trap can be installed on horizontal or vertical lines. Do not fit the trap upside down since this position will not allow the cleaning of the strainer. For the same reason the directory of flow on vertical lines must be downwards. For installation with superheated steam, please conctact our Technical Departement.

HOW TO SERVICE

By installing a new element assemly you can bring the BF steam trap to the "as new from factory" condition. This operation is carried out in few minutes without removing the trap from the pipeline. Unscrew the 4 bolts (8) and remove cover (2). Unscrew and remove the element (3). Clean the insede of the trap and screw in the new element assembly. Fit a new gasket (4) and reinstall cover (2) tightening the bolts (8). To service the strainer, unscrew cap (7), withdraw screen (6) and clean or replace it. Screwing the cap back in place, always fit a new gasket (5). The discharge temperature may be adjusted without removing the trap from the line. For informatin about this operation, to be performed only by qualified personnel, please ask our Techincal Departement.

How to order: i.e. BF ¾" 300 RF

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OFFICIAL WEB SITE: www.douglas-italia.com