

BIMETALLIC THERMOSTATIC STEAM TRAPS BD60L LF2

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

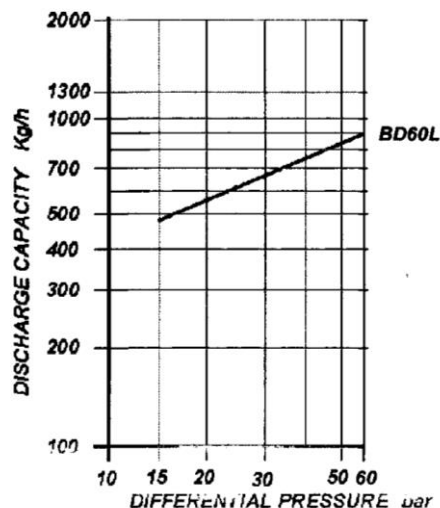
Free air discharge. Suitable on superheated steam. It withstands frost and waterhammer. Modulating discharge only with condensate.



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

1/2" – 3/4" – 1"

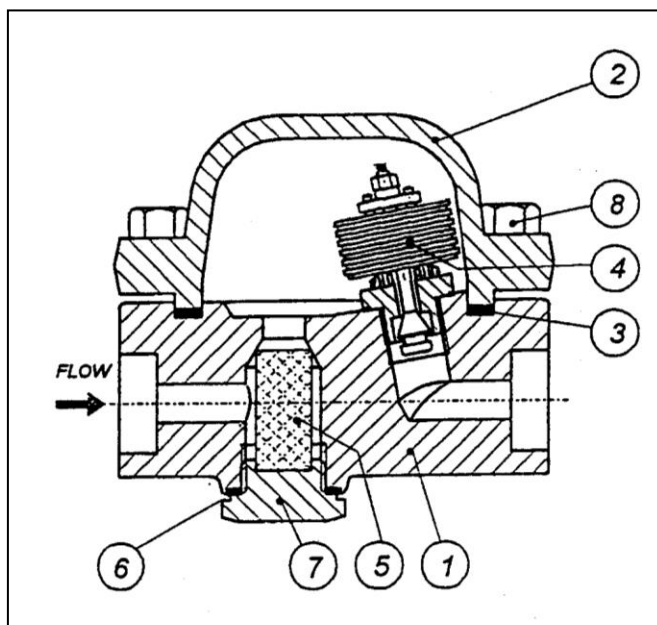
CONNECTIONS

SCREWED	ANSI B1.20.1 (NPT)
BUTTWELD	ANSI B16.25
SOCKET WELD	ANSI B16.11
FLANGED	ANSI 150#/300#/600#/UNI/DIN

LIMITING CONDITIONS (according to ISO 6552)

Steam Trap rating	ANSI 600
PMA: Max allowable pressure	100 bar
TMA: max allowable temperature	350°C
PMO: max differential pressure	60 bar
TMO: max working temperature	310°C

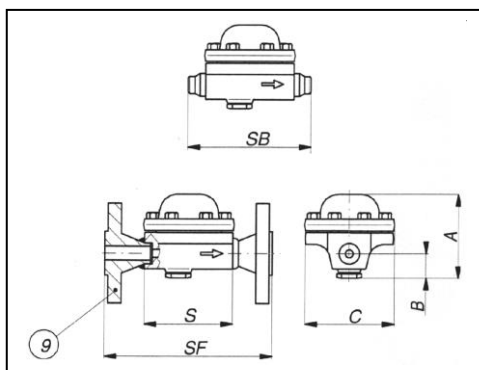
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POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A350 LF2	
2	Cover	ASTM A350 LF2	
3	Gasket SPW	F-GRAPHITE W-316	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 316	X
6	Gasket SPW	F-GRAPHITE W-316	X
7	Strainer cap	ASTM A350 LF2	
7	Blow-off valve *	AISI 416	
8	Bolts	ASTM A320 L7	
9	Flange	ASTM A350 LF2	

* Optional

Flanged														
Size (inches)	S	SB	A	B	C	Weight (Kg)	UNI-DIN PN16-25-40		150#		300#		600#	
							SF	Kg	SF	Kg	SF	Kg	SF	Kg
½"	145	200	130	35	145	8	211	9.5	205	9.2	225	9.5	235	10.5
¾"	145	200	130	35	145	8	215	10	215	9.5	235	10.5	245	11
1"	145	200	130	35	145	8	215	10.5	225	10	235	11.2	255	11.5



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 contact our Technical Department

HOW TO SERVICE

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

MODEL & CONNECTIONS			CLIENT REF.		
MODEL	SIZE	CONNECTIONS	ITEM No.:	TAG.No.:	ITEM No.:
DOUGLAS REF			JOB No		
CLIENT					
CLIENT P.O. No.					
CLIENT M.R. No.					
DOUGLAS CHERO S.p.a. Loc. Pradaglie Carpaneto (PC) ITALIA			Rev.: 0		Dwg. N. 133165005
Douglas reserves the right to carry-out any necessary modification without prior notice			Date: 02/05/13		Pag.: 2/2