



DOUGLAS ITALIA S.P.A.

BIMETALLIC THERMOSTATIC STEAM TRAPS BD 80S F22

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.



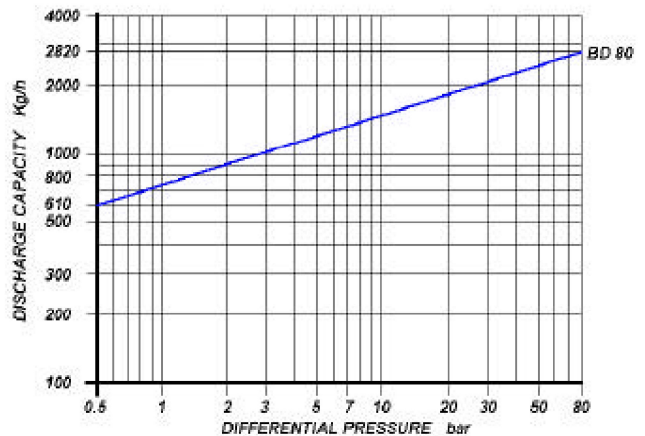
MAIN FEATURES

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" – 1 1/2" – 2"

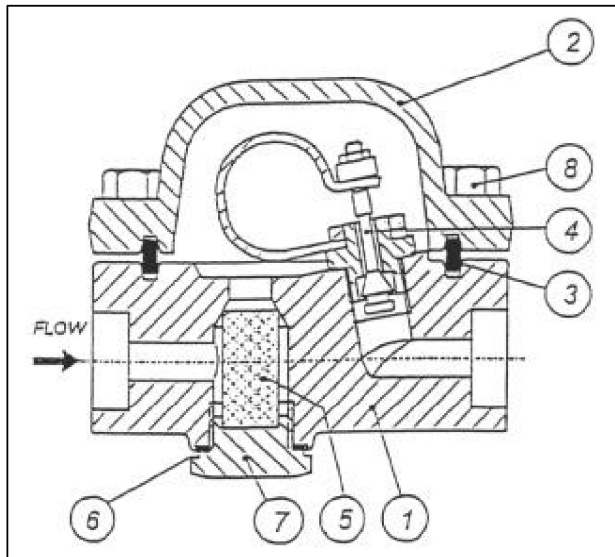
CONNECTIONS

SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)
SOCKET WELD	ANSI B16.11

LIMITING CONDITIONS (according to ISO 6552)

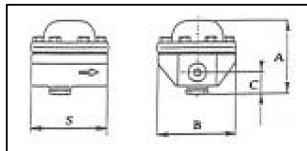
Steam Trap rating	ANSI 1500
PMA: Max allowable pressure	258 bar
TMA: max allowable temperature	570°C
PMO: max working pressure	80 bar
TMO: max working temperature	340°C

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POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	ASTM A 182 F22	
2	Cover	ASTM A 182 F22	
3	RJ	ASTM A 182 F22	X
4	Valve assembly	STAINLESS STEEL	X
5	Screen	AISI 316	X
6	Gasket	316 / GRAPHITE	X
7	Strainer cap	ASTM A 182 F22	
8	Bolts	ASTM A193 B8	

Size (inches)	S	A	B	C
1/2"	180	150	190	45
3/4"	180	150	190	45
1"	180	150	190	45



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 direction 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 80S F22 steam trap to the "as new from factory" condition. Unscrew the 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.

How to order: i.e. BD 80S F22 3/4" NPT

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OFFICIAL WEB SITE: www.douglas-italia.com