

BIMETALLIC THERMOSTATIC STEAM TRAPS BC 20 S1

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.



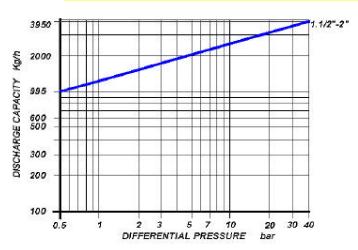
MAIN FEATURES

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



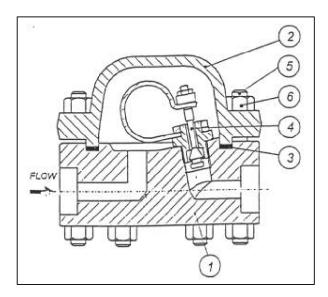
Cold water capacities are 2 to 4 times greater than the above . Safety factor = 1.2-1.5

SIZES1½" – 2"

CONNECTIONS				
SCREWED	ANSI B1.20.1 (NPT) / BS21 (BSP)			
SOCKET WELD	ANSI B16.11			
FLANGED	ANSI B16.5			

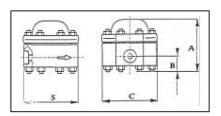
LIMITING CONDITIONS (according to ISO 6552)				
ANSI 800				
137 bar				
570°C				
20 bar				
275°C				

BC 20 S1



POS.	DESCRIPTION	MATERIALS	SPARES
1	Body	SA F2205	
2	Cover	SA F2205	
3	Gasket	316 / GRAPHITE	X
4 Valve assembly		STAINLESS STEEL	X
5 Studs		ASTM A193 B8	
6 Nuts		ASTM A194 Gr.8	

Size (inches)	S	Α	В	С
1½""	160	190	60	180
2"	160	190	60	180



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 BC 20 S1 steam trap to the "as new from factory" condition. Unscrew the bolts (5) 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 (5). The discharge temperature may be adjusted without removing the trap from the line. For information about this operation, to be performed only be qualified personnel, please ask our Thecnical Departement.

How to order: i.e. BC 20 S1 2" NPT

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OFFICIAL WEB SITE: www.douglas-italia.com