

Description:

Bi-Thermostatic bimetallic steam trap, with corrosion resistant regulator unaffected by waterhammer and superheated steam. Balanced pressure valve. Independent seat and cone valve, and external adjustment device while running for temperature and flow discharge.

The fact that both, valve plug and valve seat, be independent and located in the low flow discharge area, reduces erosion and extends the life of the trap. The condensate discharge is controlled by bimetallic thermostat, continuously adjusting to changes of condensate flow. Automatic air venting. Installation in any position. The independence of the cone valve and seat reduces dramatically the costs of its spare parts, joined to the fact that it has an external adjustment device while running, makes an extremely low maintenance cost steam trap.

Operation:

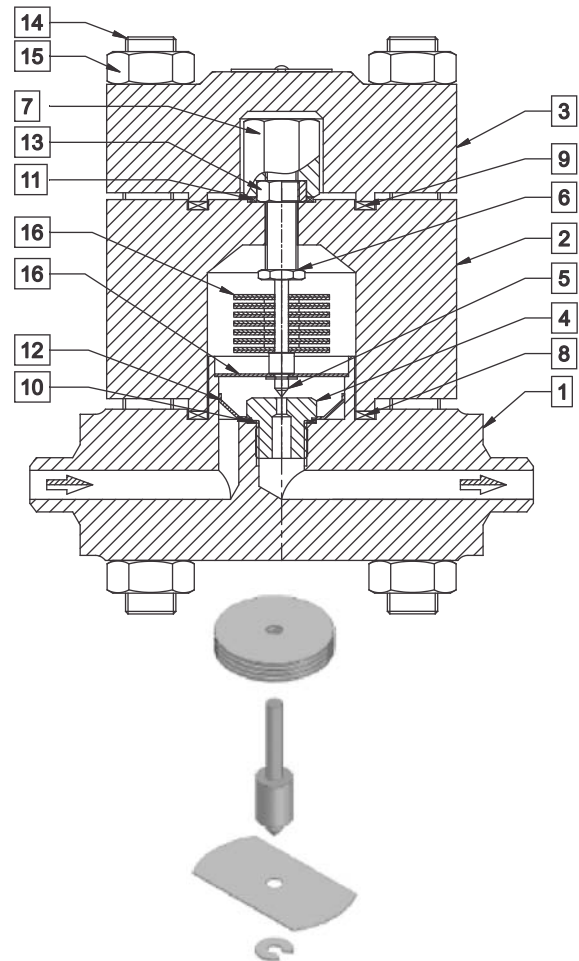
During the start-up, the condensate is cold and the bimetals are flat. When the temperature starts to rise the bimetals will expand producing the progressive closure of the valve plug. In this way the steam trap is able to adjust itself to changing conditions because if the pressure rises, the higher pressure acts on the valve plug but at the same time the higher temperature will act on the bimetals. Its quick automatic air venting prevents air binding. The valve plug is placed on the upper stream far from the flash steam zone, this avoids erosion and waste, contributes to a long effective life and reduces maintenance costs.

Maximum operating conditions:

- Maximum operating pressure : 215 bar
- Maximum temperature : 550°C
- Maximum differential pressure : 215 bar

End Connections:

- Butt Weld : 1/2", 3/4", 1"
- Socket Weld : 1/2", 3/4", 1"
- Flanges DIN PN 160 : DN 15, 20, 25
- Flanges ANSI 600/900/1500/2500#
- Raised Face : 1/2", 3/4", 1"
- Special connections on demand.



	Component	Material
1	Body	ASTM A 182 Gr.F91
2	Cover	ASTM A 182 Gr.F91
3	Safety Cap	ASTM A 182 Gr.F91
4	Valve Seat	AISI 420
5	Valve Plug	AISI 440B
6	Plug Guide	AISI 420
7	Cover Nut	ASTM A 182 Gr.F91
8	Body Gasket	AISI 347 (Octagonal Ring Gasket) / AISI 304 SPW + Graphite Filler
9	Cover Gasket	AISI 347 (Octagonal Ring Gasket) / AISI 304 SPW + Graphite Filler
10	V. Seat Gasket	Soft Nickel
11	C. Nut Gasket	Soft Nickel
12	Strainer Screen	AISI 304
13	Locknut	AISI 304
14	Stud	ASTM A 193 Gr.B16
15	Nut	ASTM A 194 Gr.7
16	Bimetal plates	38/7NiCr , 19/7NiCr

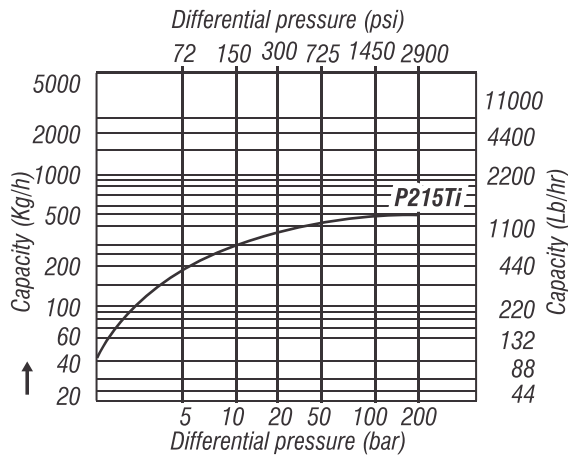
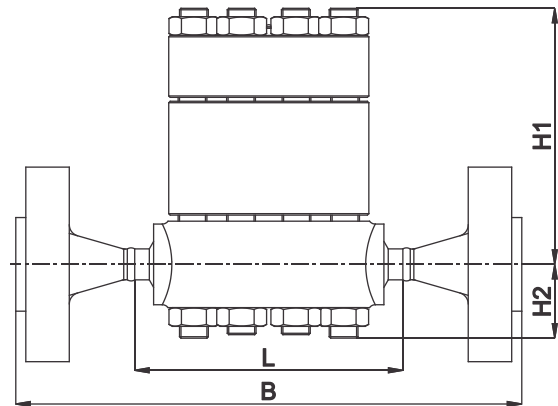
HIGH PRESSURE BI-METALLIC STEAM TRAP P215Ti

Approximate weight (without flanges): 28 Kg.

Other characteristics:

This type of steam trap allows can be, continuously and remotely, monitored by SmartWatchWeb system in order to detect anomalies during operation, such as the possibility of appearance of external or internal leak, correct condensate discharge temperature in order to improve the energy efficiency of the installation, pressure and back pressure problems.

DN (pulg)	1/2"	3/4"	1"
H1 (mm)	122	122	122
H2 (mm)	27	27	27
L (mm)	200	200	200
B (mm)	##	##	##



Capacities given are continuous discharge capacities of hot condensate. The cold water capacity at start-up condition will be 2.5 of the hot condensate capacity.

External adjustment device:

With its external adjustment device, the user can easily modify the conditions of evacuation of condensate. To do this, simply remove the safety cap (3), cover nut (7), loosen the lock nut (13) and turn as necessary the plug guide (6), up to get the required condensate flow or temperature (Bi-Therm qualified personnel adjusts every steam trap according to its operation conditions). Once adjusted, fix the lock nut (13) with soft pressure and place back the cover nut (7), safety cap (3), fix tightly to achieve the total sealing. If sealing problems through the gasket are observed, replace it with an original new one.

Spareparts:

- Valve seat
- Valve plug
- Valve seat gasket
- Body gasket
- Cover gasket
- Cover nut gasket
- Strainer screen
- Set of bimetal plates

Dimensions: ## Total length may vary according to type and rating of flange.

Other Products:



Cast / Forged Steel Piston Valves, Bellow seal valves, High Pressure valves (Gate/Globe), Strainers – "Y" Type, ITVS Steam Traps (Thermodynamic, Thermostatic, Ball Float Traps and IBT), Pressure Reducing Station, Condensate Recovery Products. Level Gauges (Reflex, Transparent, Bicolor), Sight Glass, Hot Water Generation System, Safety and Relief Valves.

FSD Products: Compressed Asbestos / Non Asbestos Fiber Sheeting / Cut Gaskets, Spiral Wound Gaskets / Gland Packing



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