

## Description

This is a Bimetallic Thermostatic Steam Trap with strainer. 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 sub cooled condensate the pressure opens the valve.

Note: The Integral Blow-down Valve is an assembly designed to be fitted to BM112 Thermostatic steam trap as an extra option.



## Limiting Conditions

|                                     |                        |
|-------------------------------------|------------------------|
| Maximum Body Design Conditions      | PN 50                  |
| PMO - Maximum Operating Pressure    | 30 kgf/cm <sup>2</sup> |
| TMO - Maximum Operating Temperature | 300 °C                 |
| PMA - Maximum Allowable Pressure    | 50 kgf/cm <sup>2</sup> |
| TMA - Maximum Allowable Temperature | 400 °C                 |
| Cold Hydraulic Test Pressure        | 75 kgf/cm <sup>2</sup> |

## Operating Range

$\Delta$ PMX – Maximum differential pressure 30 kgf/cm<sup>2</sup>

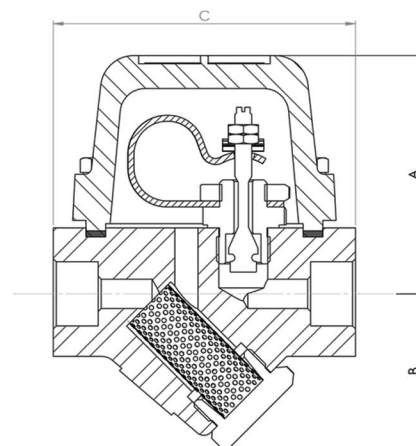
## Sizes and Pipe Connections

1/2", 3/4" and 1" Screwed (ANSI B1.20.1) - Socket Weld (ANSI B16.11)  
Flanged (ANSI B16.5)

## Dimensions / Weights (Approximate) mm and kg

| Size | A  | B  | C   | Weight |
|------|----|----|-----|--------|
| 1/2" | 80 | 60 | 110 | 3      |
| 3/4" | 80 | 60 | 110 | 3      |
| 1"   | 80 | 60 | 110 | 3      |

Constructions are a bit different according the sizes

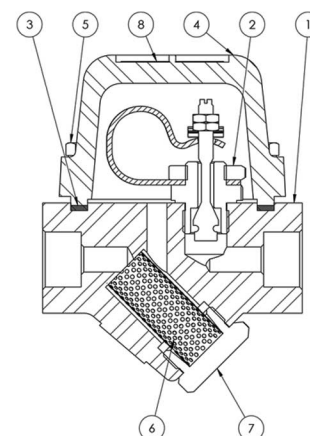


## Bimetallic Thermostatic Steam Traps - 112

### Materials

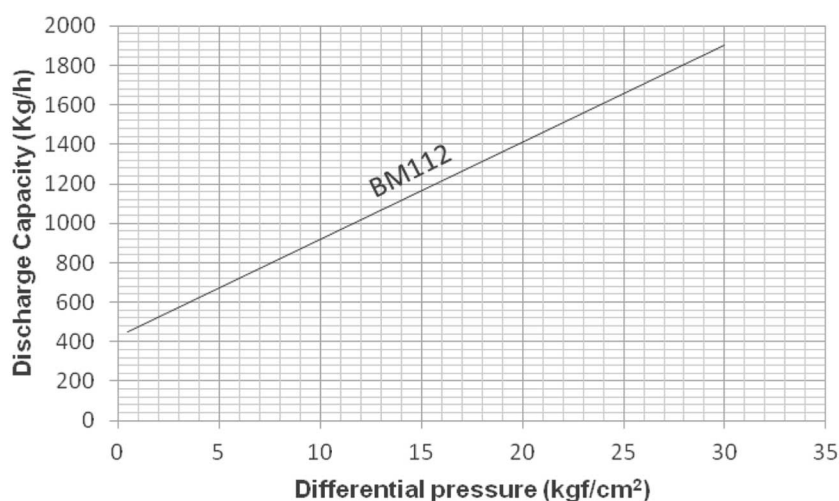
| No. | Part                  | Material                       |
|-----|-----------------------|--------------------------------|
| 1   | Body                  | ASTM A105                      |
| 2   | Valve Seat Assembly * | AISI 316                       |
| 3   | Cover Gasket *        | Reinforced Exfoliated Graphite |
| 4   | Cover                 | ASTM A105                      |
| 5   | Bolt                  | ASTM A193 B7                   |
| 6   | Strainer Screen *     | AISI 304/316                   |
| 7   | Strainer Cap          | AISI 420                       |
| 8   | Blow-Down Cap **      | AISI 420                       |
| 9   | Blow-Down Screw **    | AISI 420                       |

Note: (\*) Spare Part  
(\*\*) Optional extra



### Capacities

Maximum continual discharge amount (kg/h)



### 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.

### How to Order

Example: 112 – ½", Bimetallic Thermostatic Steam Trap Screwed with Blow-down Valve.