

BALANCED PRESSURE THERMOSTATIC STEAM TRAPS TC 2

BALANCED PRESSURE

The operating principle is based on the expansion and contraction of a temperature sensitive capsule. The elements are filled with a liquid whose saturation temperature is lower then that of water, at the same pressure. With subcooled condensate the elements contract. When steam is formed the pressure inside the element causes expansion to close the valve.



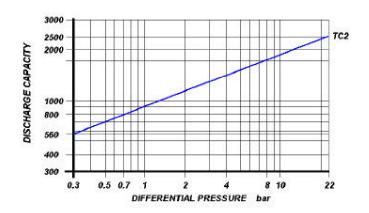
MAIN FEATURES

Free air discharge. It withstands frost. Discharge of condensate slightly below steam temperature. It does not withstand waterhammer

APPLICATIONS

- Steam mains
- □ Presses
- □ Tanks
- Suction heaters
- Ovens

DISCHARGE CAPACITY



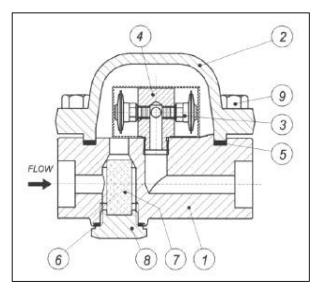
Cold water capacities are 2 to 4 times greater than the above . Safety factor = 1.2 - 1.5

| SIZES |
|------------------|
| 1/2" - 3/4" - 1" |
| |

| CONNECTIONS | | | | | |
|----------------|---------------------------------|--|--|--|--|
| Screwed | ANSI B1.20.1 (NPT) / BS21 (BSP) | | | | |
| Socket Welding | ANSI B16.11 | | | | |
| Flanged | ANSI B 16.5 | | | | |

| LIMITING CONDITIONS (according to ISO 6552) | | | | | | |
|---|------------------|--|--|--|--|--|
| Steam Trap rating | ANSI 300 | | | | | |
| PMA: Max allowable pressure | 50 bar | | | | | |
| TMA: max allowable temperature | 400°C | | | | | |
| Max. operating condition | 32 bar - 250°C | | | | | |
| Max. Operating condition | 14.5 bar - 390°C | | | | | |
| Max. differential pressure | 22 bar | | | | | |
| | | | | | | |

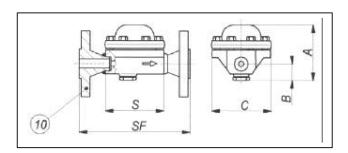
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| POS. | DESCRIPTION | MATERIALS | SPARES | | | | |
|--------------------------------------|----------------------|-----------------|--------|--|--|--|--|
| 1 | Body | ASTM A 105 | | | | | |
| 2 | Cover | ASTM A 105 | | | | | |
| 3 | Valve assembly N.2 * | S.S / HASTELLOY | X | | | | |
| 4 | Support | AISI 304 | X | | | | |
| 5 | Cover gasket | 316 / GRAPHITE | X | | | | |
| 6 | Gasket | 316 / GRAPHITE | X | | | | |
| 7 | Screen | AISI 304 | X | | | | |
| 8 | Plug | ASTM A 105 | X | | | | |
| 9 | Bolt | ASTM 193 B 7 | | | | | |
| 10 | Flange | ASTM A 105 | | | | | |
| * STANDAD CADSULE: (40°C) subscaling | | | | | | | |

| STANDAR CAPSULE | . (10 C) SUBC | cooling |
|---------------------------|-----------------|------------------|
| CAPSULE OPTIONS: (| 5°C – 30°C – | 40°C) subcooling |

| | Flanged | | | | | | | | | | | | |
|------------------|---------|-----|----|-----|----------------|------|----|------|----|------|----|------|--|
| Size (inches) | S | A | В | С | Weight (Kg) | 150# | | 150# | | 300# | | 600# | |
| | | | | | | SF | Kg | SF | Kg | SF | Kg | | |
| 1/2" | 150 | 130 | 42 | 160 | 15 | 210 | 18 | 230 | 18 | 240 | 18 | | |
| 3/4" | 150 | 130 | 42 | 160 | 15 | 220 | 20 | 240 | 20 | 250 | 20 | | |
| 1" | 150 | 130 | 42 | 160 | 15 | 230 | 25 | 240 | 25 | 260 | 25 | | |



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 TC 2 steam trap to the "as new from factory" condition. Unscrew the bolts (9) and remove cover (2) and gasket (5). Unscrew and remove the element (3). Clean the inside of the trap and screw in the element-gasket assembly. Fit a new gasket (5) and reinstall cover (2) tightening the bolts (9). To service the strainer, unscrew cap (8), withdraw screen (7) and clean or replace it. Screwing the cap back in place, always fit a new gasket (6). For information about this operation, to be performed only be qualified personnel, please ask our Thecnical Departement.

How to order: i.e. TC 2 1/2" NPT

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