

## THERMOSTATIC STEAM TRAPS AND AIR VENTS TSS22

### DESCRIPTION

The TSS22 series of balanced pressure thermostatic steam traps and air vents are specifically designed for use on process equipment such as sterilizers and other autoclaves, kettle cookers, food, chemical and laundry equipment.

Their compact design makes them ideal when a fully stainless steel steam trap is required for air venting applications and condensate removal in small steam consumers.

### MAIN FEATURES

- Modulating discharge.
- Discharges condensate close to steam temperature.
- Thermostats for different sub coolings (5 to 30 °C).
- Excellent air discharge.
- Operates with moderate superheated steam.
- Simple and compact design.

- OPTIONS:** Welded body.
- USE:** Saturated steam.
- AVAILABLE MODELS:** TSS22, TSS22H – stainless steel.
- SIZES:** 1/4" to 1".
- CONNECTIONS:** Female threaded ISO 7 Rp or NPT.
- INSTALLATION:** In any position.  
See IMI – Installation and maintenance instructions.

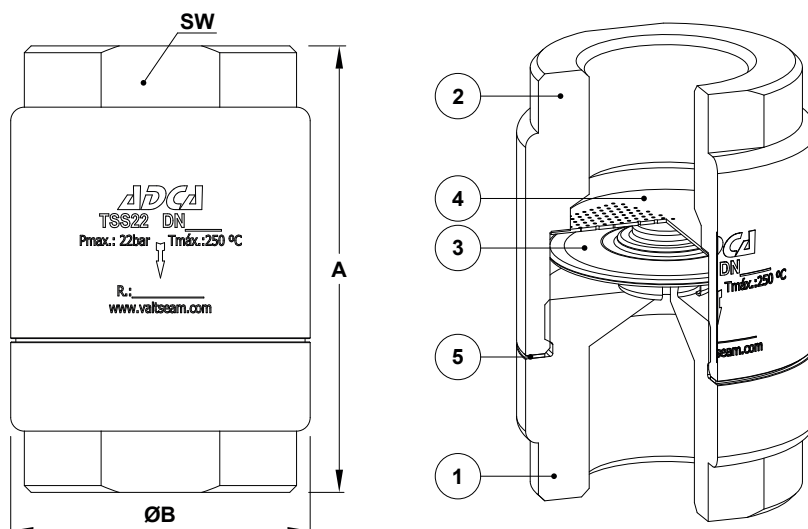


| BODY LIMITING CONDITIONS          |                     |
|-----------------------------------|---------------------|
| THREADED PN 40 ALLOWABLE PRESSURE | RELATED TEMPERATURE |
| 34,4 bar                          | 100 °C              |
| 30,8 bar                          | 150 °C              |
| 28 bar                            | 200 °C              |
| 26 bar                            | 250 °C              |

PMO – Maximum operating pressure: 22 bar.  
TMO – Maximum operating temperature: 250 °C.

| FLOW RATE CAPACITY (kg/h) |            |                             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------------------------|------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODEL                     | SIZE       | DIFFERENTIAL PRESSURE (bar) |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                           |            | 0,2                         | 0,3 | 0,5 | 1   | 1,5 | 2   | 3   | 4   | 6   | 8   | 10  | 13  | 15  | 20  | 22  |
| TSS22                     | 1/4" to 1" | 45                          | 55  | 70  | 95  | 125 | 135 | 180 | 200 | 270 | 315 | 330 | 360 | 370 | 405 | 415 |
| TSS22H                    | 1/2" to 1" | 70                          | 120 | 140 | 255 | 330 | 385 | 455 | 510 | 600 | 670 | 700 | 720 | 750 | 775 | 795 |

Capacities shown refer to condensate discharge 10 °C below steam saturation temperature (standard type S thermostat).  
Thermostats for 5 °C (type H) and 30 °C (type L) also available. Capacities for cold condensate discharge at 20 °C are two to three times greater.



| DIMENSIONS (mm) |    |    |    |           |
|-----------------|----|----|----|-----------|
| SIZE            | A  | ØB | SW | WGT. (kg) |
| 1/4"            | 65 | 44 | 27 | 0,5       |
| 3/8"            | 65 | 44 | 27 | 0,5       |
| 1/2"            | 65 | 44 | 27 | 0,45      |
| 3/4"            | 65 | 44 | 36 | 0,47      |
| 1"              | 65 | 44 | 40 | 0,4       |

| MATERIALS |                        |                      |
|-----------|------------------------|----------------------|
| POS. N°   | DESIGNATION            | MATERIAL             |
| 1         | Body                   | AISI 304 / 1.4301    |
| 2         | Cover                  | AISI 304 / 1.4301    |
| 3         | * Thermostatic element | Stainless steel      |
| 4         | * Strainer screen      | AISI 304 / 1.4301    |
| 5         | * Gasket               | St. steel / Graphite |

\* Available spare parts.