STEAM & CONDENSATE | NV-ST-142492

# Thermostatic Bimetallic Steam Trap - Threaded



Catalogue illustration; selected build may vary.

**SIZE RANGE**

1/2" - 1"

**NOMINAL CLASS**

PN25

**BODY OPTIONS**

A105 / F304 / F316

**CONNECTION**

BSP / NPT

**TEMPERATURE**

Up to 350°C

Thermostatic bimetallic steam trap with BSP or NPT threaded ends for temperature-dependent condensate discharge. Specify the thread, condensate load, pressure conditions and required discharge temperature.

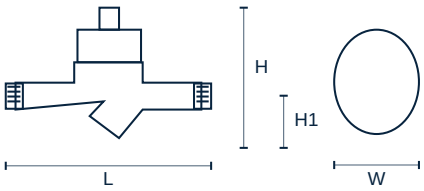
## Product selection

| Parameter | Listed options |
|---|---|
| Reference Model | SHT21T |

Select options together. The named dimensional reference and approved order drawing govern the supplied configuration.

> DIMENSIONAL REFERENCE: VMV SHT21T thermostatic bimetal reference, PN25, A105/F304/F316, DN15-DN25. Its 350°C operating limit is model-specific; it is not assigned to the different Lonze CS47H/CS17H 220°C construction.

## Dimension key - schematic, not to scale




Use the named model table and approved order drawing for dimensions.

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## Bimetallic reference dimensions

| Model | Published sizes | L (mm) | H (mm) | H1 (mm) | W (mm) | Mass (kg) |
|---|---|---|---|---|---|---|
| SHT21T | DN15 / DN20 / DN25 | 90 | 168 | 100 | 55 | 1.8 |

VMV steam catalogue, PDF page 17 (printed page 11). The row covers all three nominal sizes. Nominal thread sizes: 1/2, 3/4 and 1 inch. Confirm BSP/NPT standard and engagement dimensions for the order.

## Published pressure and temperature limits

| Reference model | Nominal class | Max. operating pressure (bar) | Max. operating temperature (°C) | Published shell P/T point |
|---|---|---|---|---|
| SHT21T | PN25 | 21 | 350 | 24.5 bar at 200°C; 10.3 bar at 450°C |

Nominal pressure class describes the reference body. Operating limits, shell limits and test pressures are different quantities. Maximum pressure and maximum temperature are separate published limits; they are not a simultaneous operating point. Confirm the complete pressure-temperature envelope, selected orifice and backpressure for the duty.

## Reference material list

| Component | Published grades |
|---|---|
| Body / bonnet | A105 / F304 / F316 |
| Disc | 440C + 304 |
| Seat | 420 |
| Other internal parts | 304 |

Material list belongs to SHT21; confirm the selected body and internal combination in the quotation.

## Configuration and service requirements

- Dimensions apply to the named reference construction. Confirm the selected material, trim, connection standard and approved order drawing before installation. H values marked approximate are reproduced as approximate; no open/closed-stem clearance is inferred.

- Nominal pressure class describes the reference body. Operating limits, shell limits and test pressures are different quantities. Maximum pressure and maximum temperature are separate published limits; they are not a simultaneous operating point. Confirm the complete pressure-temperature envelope, selected orifice and backpressure for the duty.

- Discharge temperature and capacity depend on the bimetal setting and subcooling. Specify the condensate load, inlet pressure, backpressure and desired discharge temperature.