



# TD62LM and TD62M

## Thermodynamic Steam Traps

### with replaceable seats (Screwed/Socket Weld)

#### Description

The **TD62LM** and **TD62M** are maintainable high pressure thermodynamic steam traps with integral strainer and a replaceable seat to ease maintenance. They have been specifically designed for mains drainage applications up to 62 bar g.

The **TD62LM** is specifically designed for relatively small condensate loads on superheat and mains drainage applications. An insulating cover is fitted as standard to prevent the trap being unduly influenced by excessive heat loss when subjected to low outside temperatures, wind, rain etc.

**Standards :** This product fully complies with the requirements of the Indian Boiler Regulations, 1950.

**Certification :** This product is available with a manufacturers' Typical Test Report and IBR certification.

**Note:** All certification / inspection requirements must be stated at the time of order placement.

#### Sizes and pipe connections

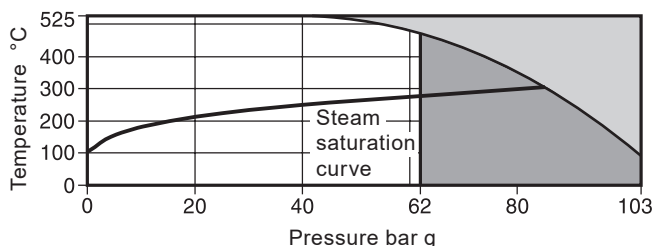
1/2", 3/4" and 1" screwed ends NPT.

1/2", 3/4" and 1" socket weld ends to ANSI B 16.11 Class 3000.

#### Optional extras

An optional blowdown/depressurisation valve can be supplied at extra cost - please consult Spirax Sarco.

#### Pressure / temperature limits



- The product **must not** be used in this region.
- The product should not be used in this region or beyond its operating range as damage to the internals may occur.

Body design conditions ANSI 600

PMA Maximum allowable pressure 103 bar g @ 100 °C

TMA Maximum allowable temperature 525 °C @ 36 bar g

Minimum allowable temperature 0 °C

PMO Maximum operating pressure for steam service 62 bar g @ 482 °C

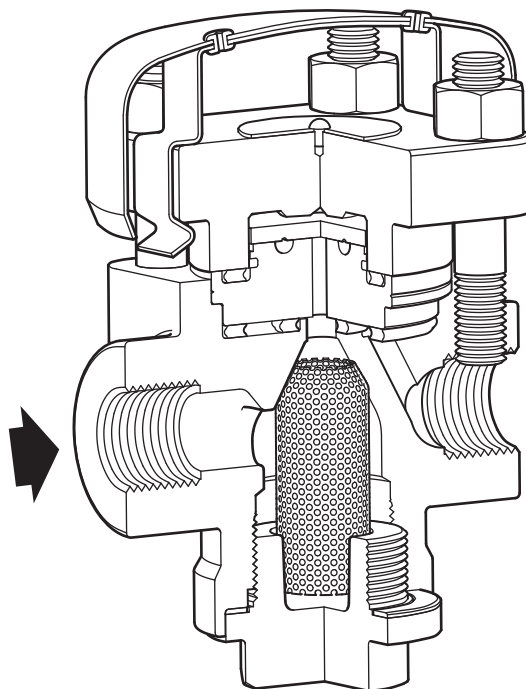
TMO Maximum operating temperature 525 °C @ 36 bar g

Minimum operating temperature 0 °C

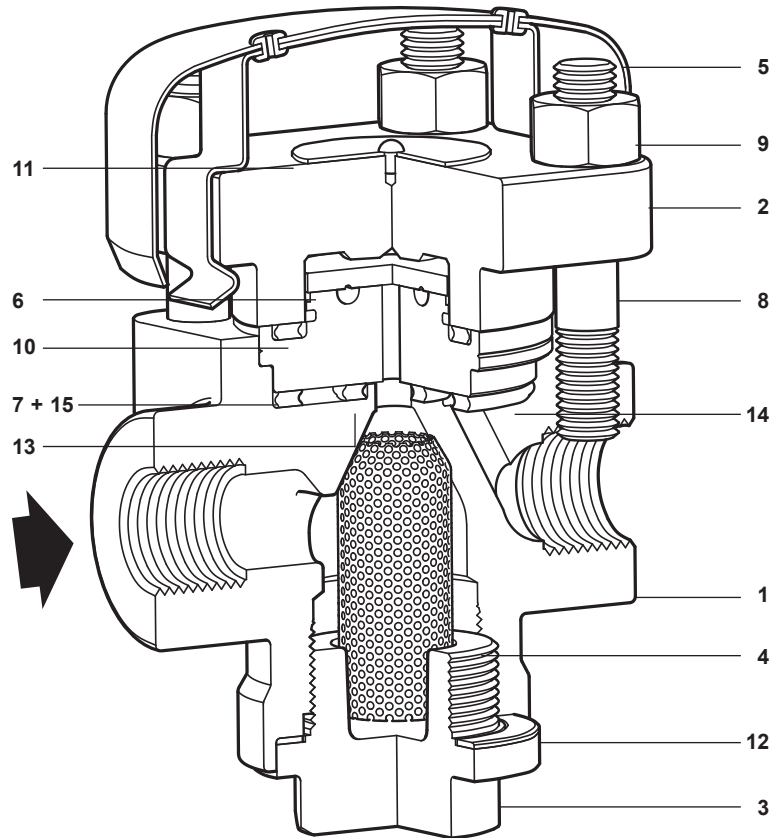
|  |                            |               |                          |
|--|----------------------------|---------------|--------------------------|
|  | Maximum operating pressure | <b>TD62LM</b> | 50% of upstream pressure |
|  | backpressure               | <b>TD62M</b>  | 80% of upstream pressure |

|                            |               |           |
|----------------------------|---------------|-----------|
| Minimum operating pressure | <b>TD62LM</b> | 8 bar g   |
|                            | <b>TD62M</b>  | 1.4 bar g |

Designed for a maximum cold hydraulic test pressure of 154.5 bar g



## Materials

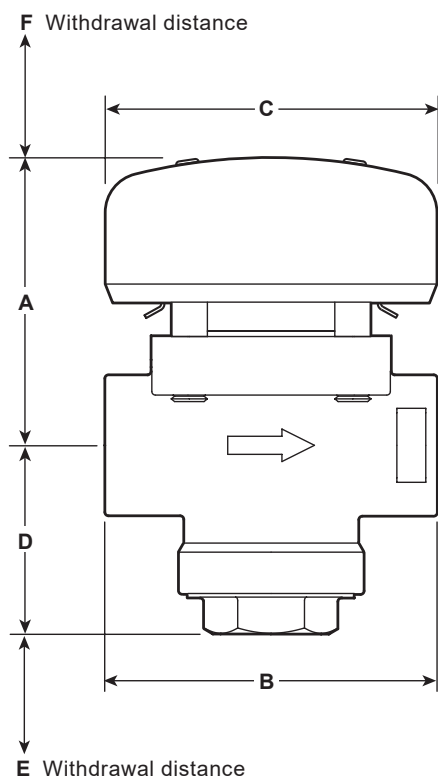


| No. | Part                | Material   |                    |
|-----|---------------------|--|--------------------|
| 1   | Body                | Steel  | ASTM A217 Gr. WC 6 |
| 2   | Cover               | Steel  | ASTM A217 Gr. WC 6 |
| 3   | Strainer cap        | Steel  | ASTM A217 Gr. WC 6 |
| 4   | Strainer screen     | Stainless steel 100 mesh                                       | 316L               |
| 5   | Insulating cover    | Aluminium  |                    |
| 6   | Disc                | Chromium steel   |                    |
| 7*  | Seat                | Chromium steel   |                    |
| 8   | Cover studs         | Steel  | ASTM A193 Gr. B16  |
| 9   | Cover nuts          | Steel  | ASTM A194 Gr. 8M   |
| 10  | Cover gasket        | Spirally wound stainless steel with exfoliated graphite filler |                    |
| 11  | Name-plate          | Stainless steel  |                    |
| 12  | Strainer cap gasket | Reinforced exfoliated graphite                                 |                    |
| 13  | Inner seat gasket   | Spirally wound stainless steel with exfoliated graphite filler |                    |
| 14  | Outer seat gasket   | Spirally wound stainless steel with exfoliated graphite filler |                    |
| 15* | Ferrule             | Stainless steel  |                    |

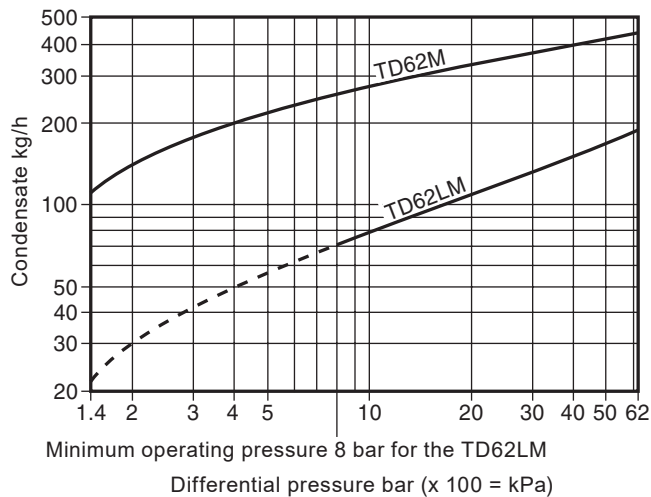
\* **Note:** Item 15 (ferrule) is pressed into item 7 (seat).

## Dimensions/weights (approximate) in mm and kg

| Size | A  | B   | C  | D  | E  | F  | Weight |
|------|----|-----|----|----|----|----|--------|
| ½"   | 80 | 92  | 92 | 52 | 20 | 51 | 2.08   |
| ¾"   | 80 | 92  | 92 | 52 | 20 | 51 | 2.08   |
| 1"   | 85 | 100 | 92 | 47 | 20 | 51 | 2.43   |



## Capacities



## Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-IBR17-61IN) supplied with the product.

### Installation note:

Preferably install in horizontal pipelines with the insulating cover uppermost although it can be fitted in other positions. After 24 hours in service the cover nuts should be checked for tightness.

### Disposal

The product is recyclable no ecological hazard is anticipated with the disposal of this product, providing due care is taken.

## How to order

**Example:** 1 off Spirax Sarco ½" TD62LM thermodynamic steam trap with integral strainer having screwed NPT connections, suitable for steam main drainage. An aluminium insulating cover shall be fitted as standard.

## Spare parts

The spare parts available are shown in solid outline. Parts drawn in broken line are not supplied as spares.

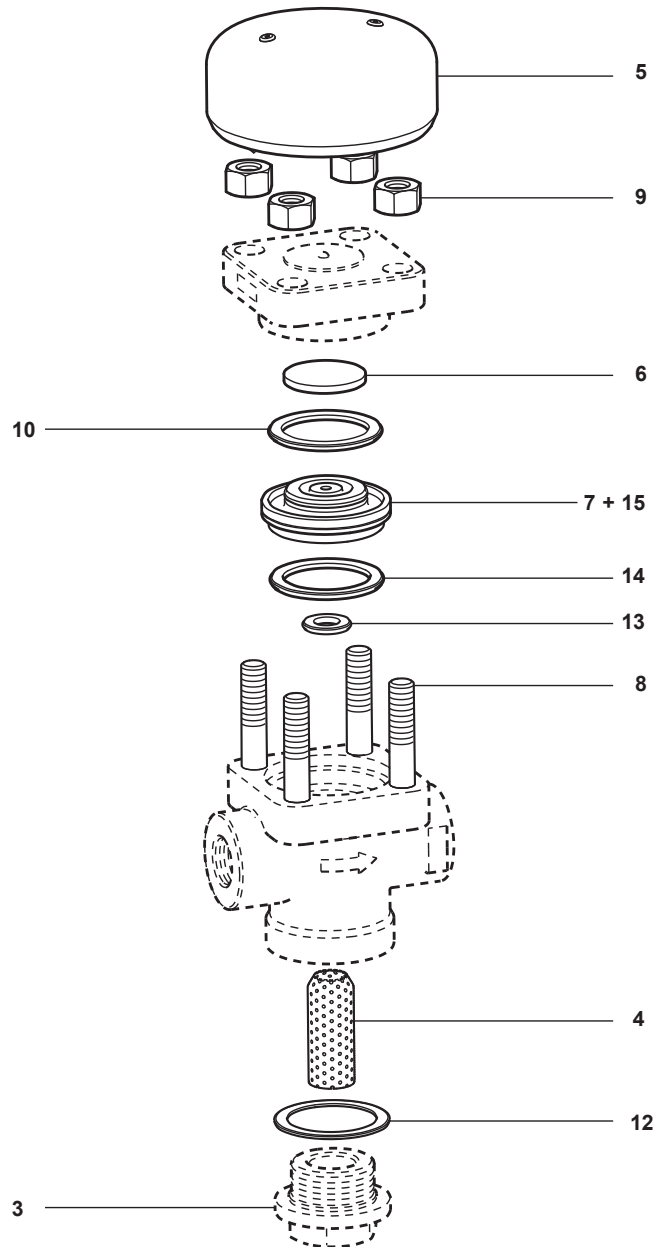
### Available spares

|  |                      |
|--|----------------------|
| Insulating cover                       | 5                    |
| Set of cover studs and nuts (set of 4) | 8, 9                 |
| Seat and disc assembly                 | 6, 7, 10, 13, 14, 15 |
| Strainer screen 100 mesh               | 4                    |
| Set of gaskets (packet of 3 sets)      | 10, 12, 13, 14       |
| Strainer cap gasket (3 off)            | 12                   |



### How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of trap.

**Example:** 1 - Strainer screen for a Spirax Sarco ½" TD62LM thermodynamic steam trap.



### Recommended tightening torques

| Item |  or mm  | N m       |
|------|---|-----------|
| 3    | 32 A/F  | 142 - 158 |
| 8    |   | 20 - 25   |
| 9    | 17 A/F  | 45 - 50   |