**TI-IBR17-62IN** Issue 1

# spirax sarco **TD62LM and TD62M Thermodynamic Steam Traps** with replaceable seats **ASTM Body (Flanged connections)**

### 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 ambient temperatures, wind or rain

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

DN15, DN20 and DN25. Standard flange to ANSI B 16.5 Class 300 and 600. ANSI Class 150 RF connections are available to special order.

## Pressure / temperature limits



- A C Flanged to ANSI B 16.5 Class 300.
- A D Flanged to ANSI B 16.5 Class 600.



| Body                                       | design conditions                            |                  | ANSI Class 150          | ANSI Class 300           | ANSI Class 600     |  |  |
|--|--|------------------|-------------------------|--------------------------|--------------------|--|--|
| PMA  | Maximum allowable pressure                   |                  | 19.8 bar g @ 38 °C      | 51.7 bar g @ 100 °C      | 103 bar g @ 100 °C |  |  |
| ТМА  | MA Maximum allowable temperature             |                  | 525 °C @ 1.9 bar g      | 525 °C @ 20.8 bar g      | 525 °C @ 36 bar g  |  |  |
| Minim                                      | um allowable temperature                     |                  |                         |                          | 0°C                |  |  |
| РМО  | Maximum operating pressure for steam service |                  | 13.9 bar g @ 195 °C     | 46 bar g @ 200 °C        | 62 bar g @ 482 °C  |  |  |
| тмо  | Maximum operating temperature                |                  | 525 °C @ 1.9 bar g      | 525 °C @ 20.8 bar g      | 525 °C @ 36 bar g  |  |  |
| Hydra                                      | ulic test pressure                           |                  | 29.7 bar g              | 77.6 bar g               | 154.5 bar g        |  |  |
| Minim                                      | um operating temperature                     |                  |                         |                          | 0°C                |  |  |
|  |  | TD62LM           |                         | 50% of upstream pressure |                    |  |  |
| PMO  | a maximum operating backpressure             | TD62M            | 80% of upstream pressur |                          |                    |  |  |
| Minimum operating pressure TD62LM<br>TD62M |  | 8 bar g @ 175 °C |                         |                          |                    |  |  |
|  |  | TD62M            | 1.4 bar g @ 126 °C      |                          |                    |  |  |

#### First for Steam Solutions

# **Materials**



| No. | Part                 | Material   |               |
|-----|----------------------|--|---------------|
| 1   | Body                 | Steel  | ASTM A217 WC6 |
| 2   | Top cover            | Steel  | ASTM A217 WC6 |
| 3   | Bottom cover         | Steel  | ASTM A217 WC6 |
| 4   | Strainer screen      | Stainless steel 100 mesh                                       | 316L          |
| 5   | Insulating cover     | Aluminium  |               |
| 6   | Disc                 | Chromium steel   |               |
| 7*  | Seat                 | Chromium steel   |               |
| 8   | Cover studs (top)    | Steel  | ASTM A193 B16 |
| 8A  | Cover studs (bottom) | Steel  | ASTM A193 B16 |
| 9   | Cover nuts           | Steel  | ASTM A194 8M  |
| 10  | Cover gaskets        | Spirally wound stainless steel with exfoliated graphite filler |               |
| 11  | Name-plate           | Stainless steel  |               |
| 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).



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

| Size | А  | ANSI 150<br>B | ANSI 300<br>B | ANSI 600<br>B | с  | D  | Е  | F  | Weight |
|------|----|---------------|---------------|---------------|----|----|----|----|--------|
| DN15 | 87 | 128           | 135           | 147           | 92 | 72 | 40 | 30 | 8.5    |
| DN20 | 87 | 128           | 138           | 151           | 92 | 72 | 40 | 30 | 8.5    |
| DN25 | 87 | 134           | 147           | 160           | 92 | 72 | 40 | 30 | 9.1    |

F Withdrawal distance



## Capacities



E Withdrawal distance

## 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 anitcipated with the disposal of this product, providing due care is taken.

#### How to order

Example: 1 off Spirax Sarco DN20 TD62LM thermodynamic steam trap with ASTM steel body having an integral strainer having a replaceable seat and flanged ANSI 600 connections suitable for steam mains drainage. An aluminium insulating cover shall be fitted as standard

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# Spare parts

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

#### Available spares

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

#### 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 DN25 TD62LM thermodynamic steam trap (ASTM body).

# Recommended tightening torques

| Item     | $\bigcirc$ | or mm     | N m     |
|----------|------------|-----------|---------|
| 8 and 8A |            | M10 x 1.5 | 20 - 25 |
| 9        | 17 A/F     |           | 45 - 50 |





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