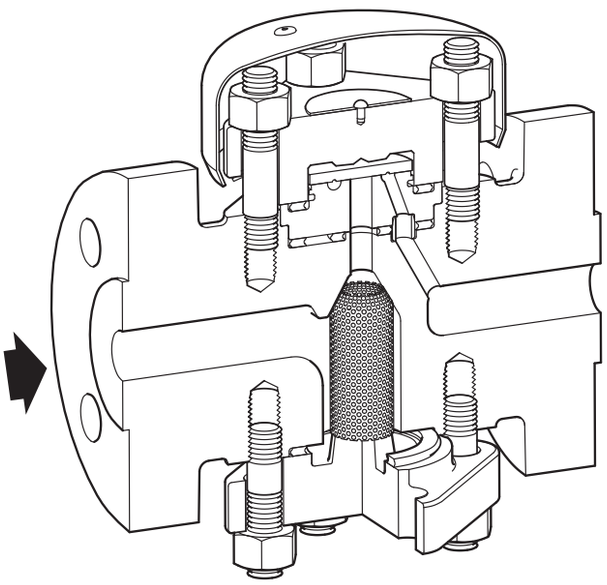
TI-P068-19
CMGT Issue 11

# TD62LM and TD62M Thermodynamic Steam Traps with Replaceable Seats EN 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. Body and cover castings are produced by a TÜV approved foundry.



## Standards

This product fully complies with the requirements of the EU Pressure Equipment Directive/UK Pressure Equipment (Safety) Regulations.

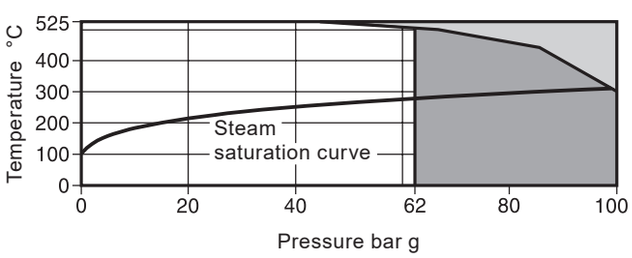
## Certification

This product is available with certification to EN 10204 3.1.
**Note:** All certification/inspection requirements must be stated at the time of order placement.

## Sizes and pipe connections

DN15, DN20 and DN25.
Standard flange EN 1092 PN100.

## 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 | | | PN100 |
| PMA | Maximum allowable pressure | | 98.1 bar g @ 300 °C |
| TMA | Maximum allowable temperature | | 525 °C @ 42.7 bar g |
| Minimum allowable temperature | | | -10 °C |
| PMO | Maximum operating pressure for steam service | | 62 bar g @ 482 °C |
| TMO | Maximum operating temperature | | 525 °C @ 42.7 bar g |
| Minimum operating temperature | | | 0 °C |
| PMOB | Maximum operating backpressure | **TD62LM** | 50% of upstream pressure |
| | | **TD62M** | 80% of upstream pressure |
| Minimum operating pressure | | **TD62LM** | 8 bar g |
| | | **TD62M** | 1.4 bar g |
| Designed for a maximum cold hydraulic test pressure of : | | | 150 bar g |

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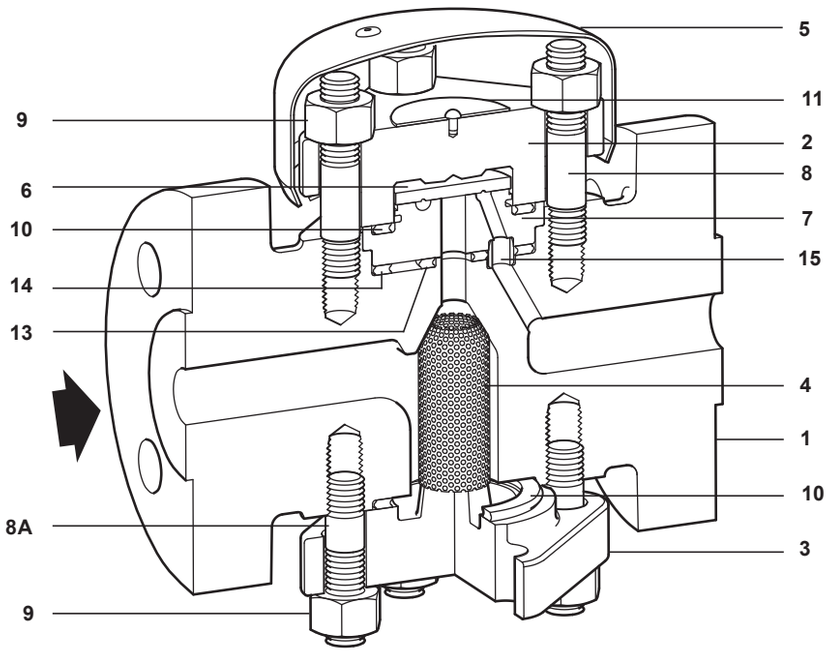
# Steam traps
## Thermodynamic

### Materials




| No. | Part | Material | |
|---|---|---|---|
| 1 | Body | Steel | EN 10213-2 G17 CrMo5-5+QT |
| 2 | Top cover | Steel | EN 10213-2 G17 CrMo5-5+QT |
| 3 | Bottom cover | Steel | EN 10213-2 G17 CrMo5-5+QT |
| 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 | DIN 10269 21 CrMoV 5 7 |
| 8A | Cover studs (bottom) | Steel | DIN 10269 21 CrMoV 5 7 |
| 9 | Cover nuts | Steel | DIN 10269 25 CrMo 4 |
| 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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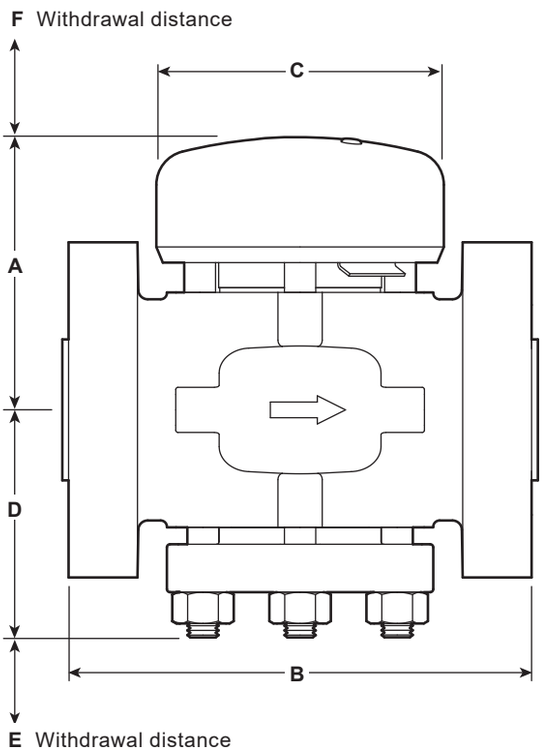
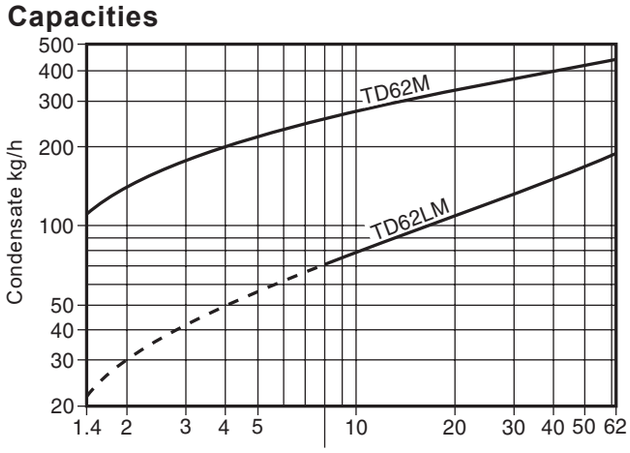
## Dimensions/weights (approximate) in mm and kg

| Size | A | B | C | D | E | F | Weight |
|---|---|---|---|---|---|---|---|
| DN15 | 87 | 150 | 92 | 72 | 40 | 30 | 8.5 |
| DN20 | 87 | 150 | 92 | 72 | 40 | 30 | 8.5 |
| DN25 | 87 | 160 | 92 | 72 | 40 | 30 | 9.1 |




## Capacities




## Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P068-58) 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

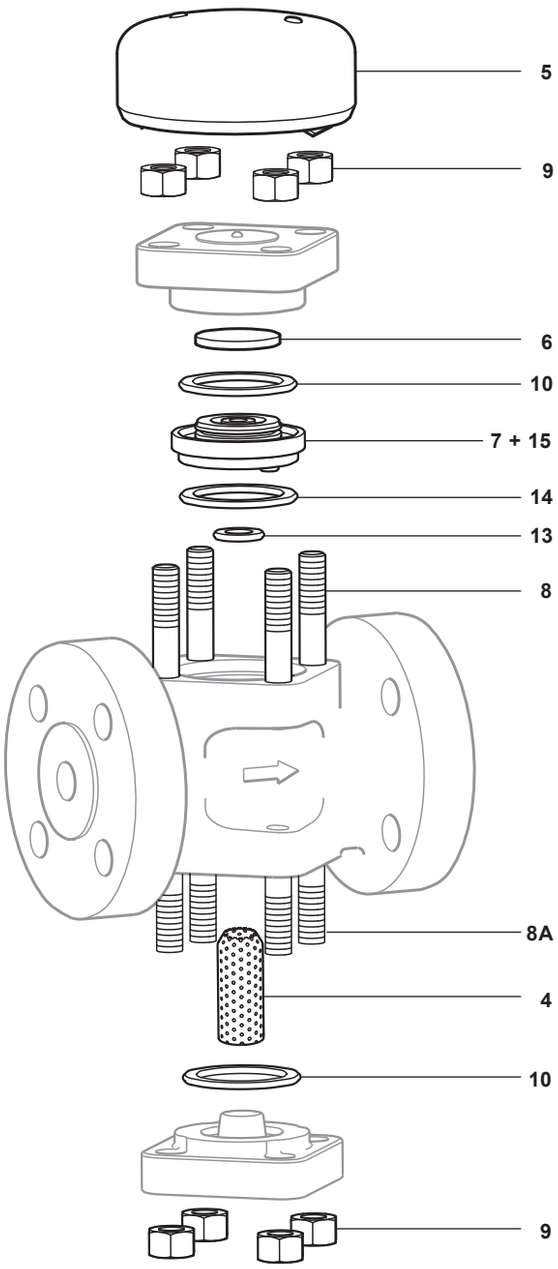
**Example:** 1 off Spirax Sarco DN20 TD62LM thermodynamic steam trap with EN steel body having an integral strainer replaceable seat and flanged PN100 connections suitable for steam main drainage. An aluminium insulating cover shall be fitted as standard.

# Steam traps
## Thermodynamic

### 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 gasket (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 (EN body).




### Recommended tightening torques

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

TI-P068-20
CMGT Issue 10

# TD62LM & 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.
The body and cover meet typical industry standards including Charpy impact testing of 27J @-30 °C. available with certification to EN 10204 3.1.

## Standards

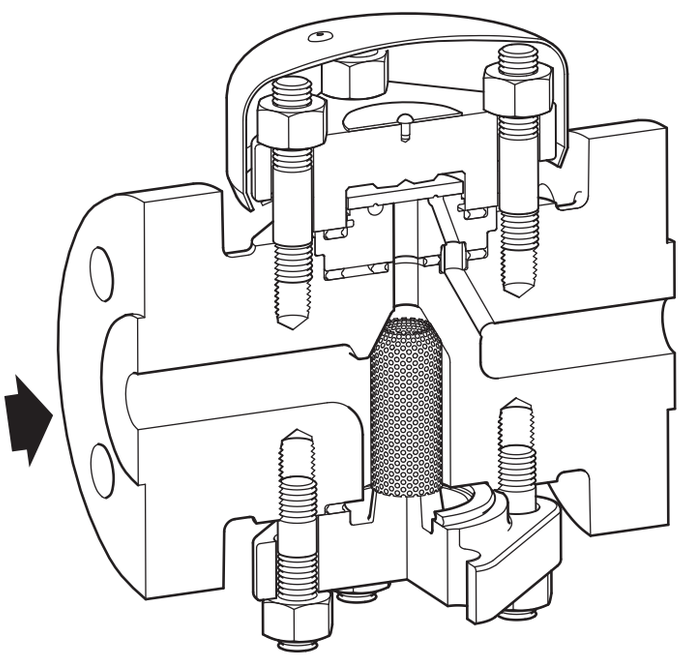
This product fully complies with the requirements of the EU Pressure Equipment Directive/UK Pressure Equipment (Safety) Regulations.

## Certification

This product is available with certification to EN 10204 3.1.
**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, and JIS/KS 40K.
ANSI Class 150 RF connections are available to special order.







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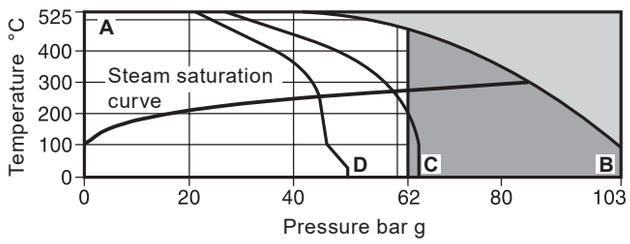
# Steam traps
## Thermodynamic

### 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.

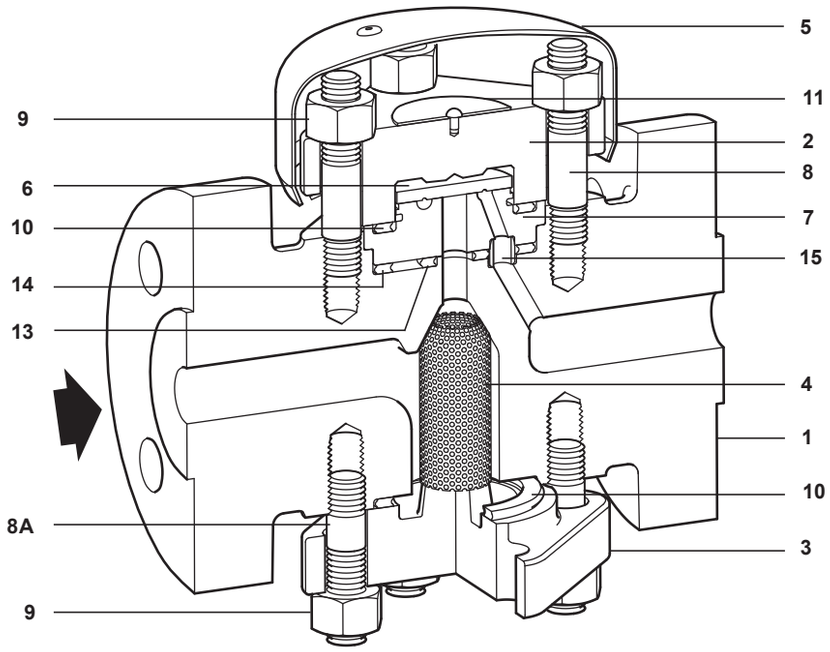
**A - B** Flanged to ANSI B 16.5 Class 600.

**A - C** Flanged to JIS/KS 40K.

**A - D** Flanged to ANSI B 16.5 Class 300.

| | | | |
|---|---|---|---|
| Body design conditions | | | ANSI 600 |
| PMA | Maximum allowable pressure | | 103 bar g @ 93 °C |
| TMA | Maximum allowable temperature | | 525 °C @ 42.7 bar g |
| Minimum ambient temperature | | | -30 °C |
| PMO | Maximum operating pressure for steam service | | 62 bar g @ 482 °C |
| TMO | Maximum operating temperature | | 525 °C @ 42.7 bar g |
| Minimum operating temperature | | | 0 °C |
| PMOB | Maximum operating backpressure | **TD62LM** | 50% of upstream pressure |
| | | **TD62M** | 80% of upstream pressure |
| Minimum operating pressure | | **TD62LM** | 8 bar g |
| | | **TD62M** | 1.4 bar g |
| Designed for a maximum cold hydraulic test pressure of | | | 155 bar g |

## 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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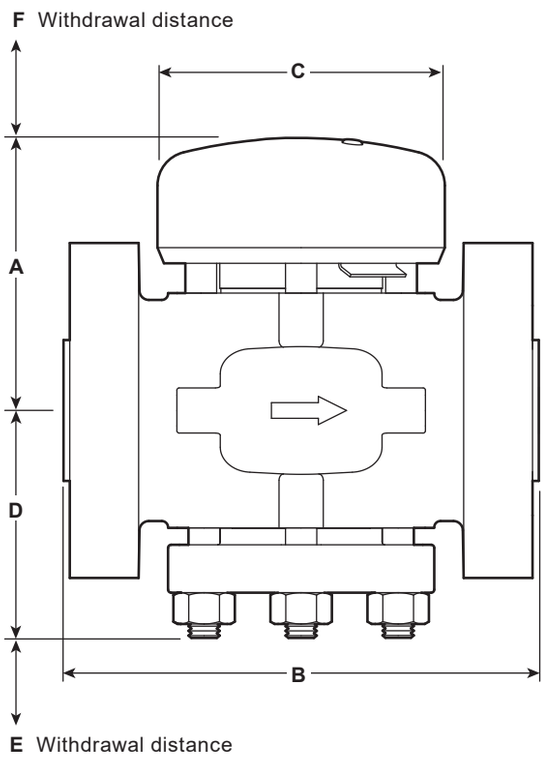
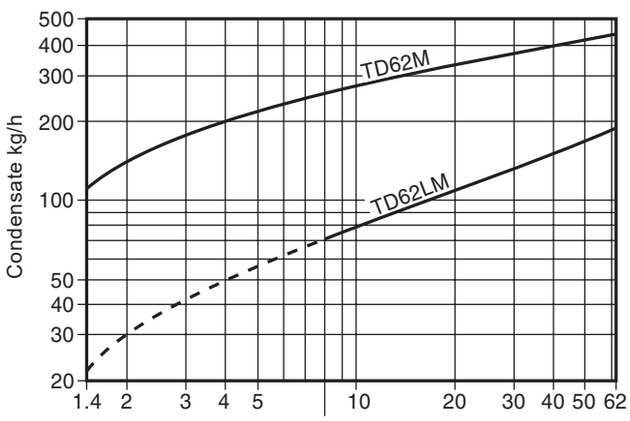
# Steam traps
## Thermodynamic

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

| Size | A | ANSI 600 B | ANSI 300 B | JIS/KS 40K B | C | D | E | F | Weight |
|---|---|---|---|---|---|---|---|---|---|
| DN15 | 87 | 147 | 135 | 146 | 92 | 72 | 40 | 30 | 8.5 |
| DN20 | 87 | 151 | 138 | 146 | 92 | 72 | 40 | 30 | 8.5 |
| DN25 | 87 | 160 | 147 | 156 | 92 | 72 | 40 | 30 | 9.1 |




### Capacities




### Safety information, installation and maintenance

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For full details see the Installation and Maintenance Instructions (IM-P068-58) 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.

## Spare parts

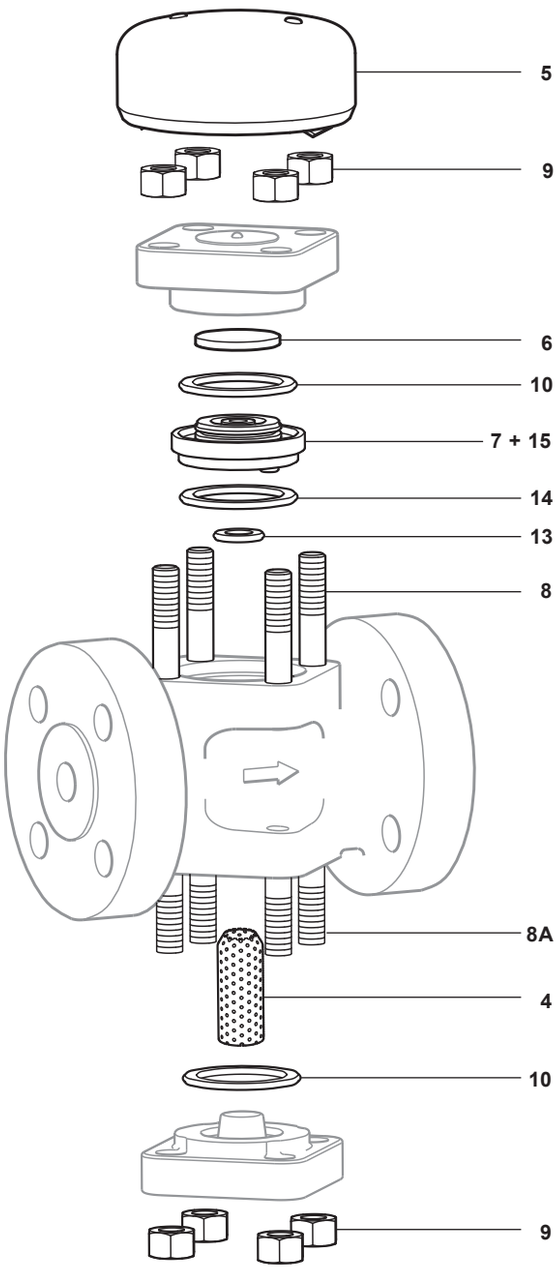
The spare parts available are shown in solid outline. Parts shown in a grey line are not supplied as spares.

### 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 gasket (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 | or mm | N m |
|---|---|---|
| **8 and 8A** | M10 x 1.5 | 20 - 25 |
| **9** | 17 A/F | 45 - 50 |