



# Thermodynamic Steam Traps

TD - 62

## Description:

The TD-62 is a maintainable high-pressure thermodynamic steam trap with integral strainer specifically designed for 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.

## Sizes and Pipe Connections:

15 and 20NB  
Screwed BSPT/NPT & Socket Weldable ends

## Note:

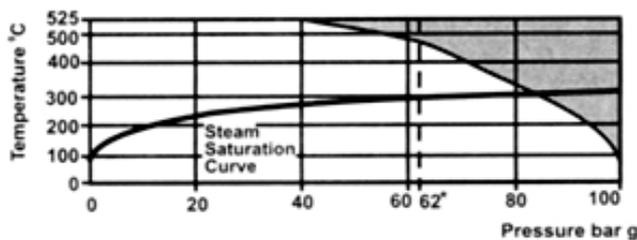
1. Available with ASA - 150, 300 & 600 weld on flanges on request.
2. Available with IBR certificate

## Limiting Conditions:

### Operating limits for Scrd ENDS IBR

PMO - Max. operating pressure for screwed end	31.5 kg/cm <sup>2</sup>
TMO - Max. operating temperature	427°C.
Hydraulic test pressure for screwed ends	63.0 kg/cm <sup>2</sup>
Body design conditions PN 100	
PMO - Max. allowable pressure	100 kg/cm <sup>2</sup>
TMO - Max. allowable temperature	525°C.
Cold hydraulic test pressure	200 bar g

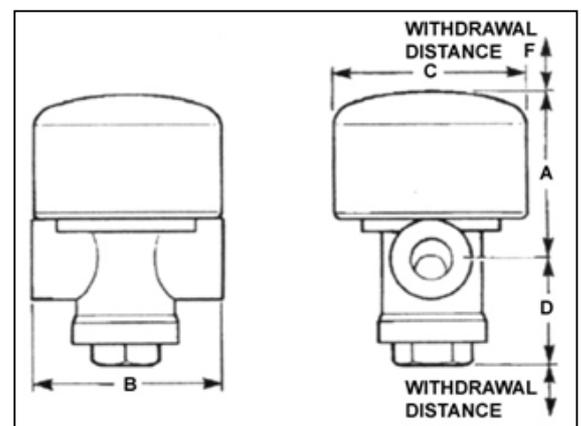
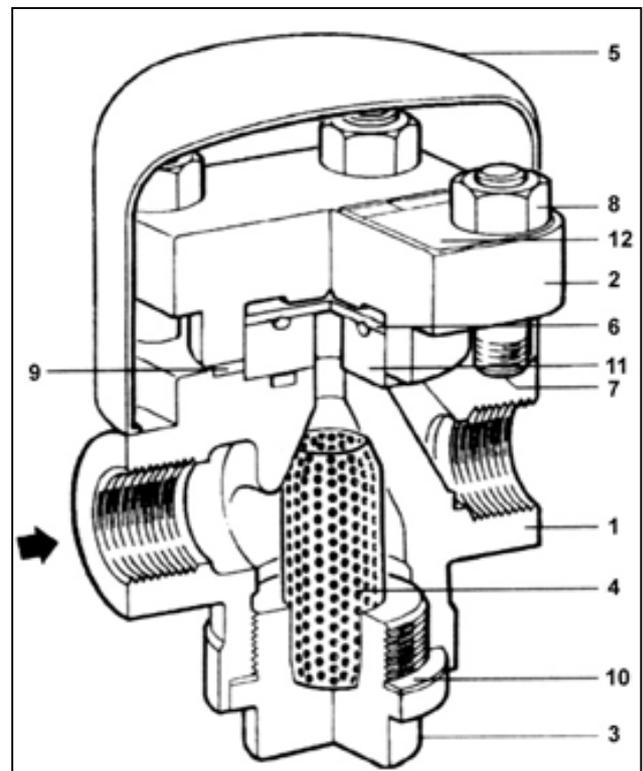
### Operating range for SWE IBR



The product must not be used in this region.

\*PMO - Max. operating pressure recommended  
PMOB - Max. operating back pressure 80% of upstream pressure.

**Note:** Minimum pressure for satisfactory operation 1.4 bar g.



### Dimensions: (approx.) mm

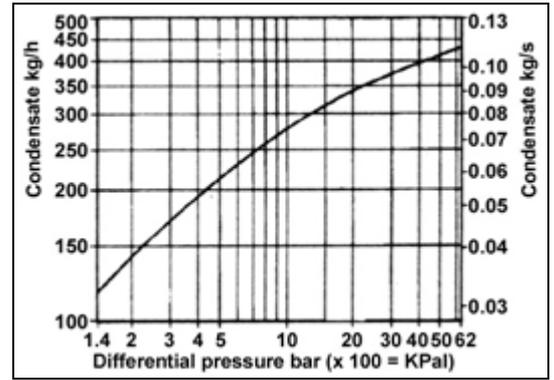
Size	A	B	C	D	E	F	Weight
15	79	92	92	51	20	51	2.08 kg
20	79	92	92	51	20	51	2.08 kg

### How to Specify:

15 NB Spirax Marshall TD 62 Thermodynamic Trap with integral strainer screwed NPT

**Materials:**

No.	Part	Material	Standard
#1	Body	Steel	ASTMA217GrWC6
2	Cover	Steel	ASTMA217GrWC6
3	Strainer Cap	Steel	ASTMA217GrWC6
4	Strainer Screen	Stainless Steel	ASTM A240 TP 304
5	Insulating Cover	Stainless Steel	ASTM A240 TP 304
6	Disc	Chromium Steel	BS 4659 Gr BD2
7	Cover Studs	Steel	ASTMA193GrB 16
8	Cover Nuts	Steel	ASTM A 194 Gr 8M
9	Cover Gasket	Reinforced exfoliated graphite Spirally Wound SS 304 with Graphseal Filler	
10	Cap Gasket	Graphited	
#11	Seat	Chromium Steel	BS 4569 Gr BD2
12	Name-plate	Stainless Steel	ASTM A240 TP 304



**#Note:** Item 11 is vacuum brazed into item 1

**Installation**

Preferably in horizontal pipelines with insulating Cover uppermost although can be fitted in other positions.

After 24 hours in service the cover nuts should be checked for tightness. Separate Installation and Maintenance instructions give full details.

**Spare Parts**

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

AVAILABLE SPARE	
Insulating Cover	5
Set of Cover Studs and Nuts (set of 4)	7,8
Disc(Pkt. of 3)	6
Strainer Screen	4
Set of Gaskets (Pkt. 3 of each)	9,10

### How to fit disc

Spring off Insulating Cover, unscrew the four nuts and remove top cover. Lift off the disc. Fit new disc making sure that the body seating surface is not unduly worn. If the body seating surface is slightly worn it can be refaced by lapping individually on a flat surface such as a surface plate. A figure of eight motion and a little grinding compound such as the Carborundum Co's compound I.F. gives the best results.

If the wear is too great to be rectified by simple lapping the seating faces on the body must be ground flat and then lapped. The total amount of metal removed in this way should not exceed 0.25 mm.

Reassemble cover using a new gasket making sure that gasket faces are perfectly clean. Ensure nameplate is placed over studs prior to reassembling nuts. Spring on insulating Cover. After 24 hours in service and when reassembling, the nuts should be tightened in a diagonally opposite sequence.

### To clean or replace strainer screen

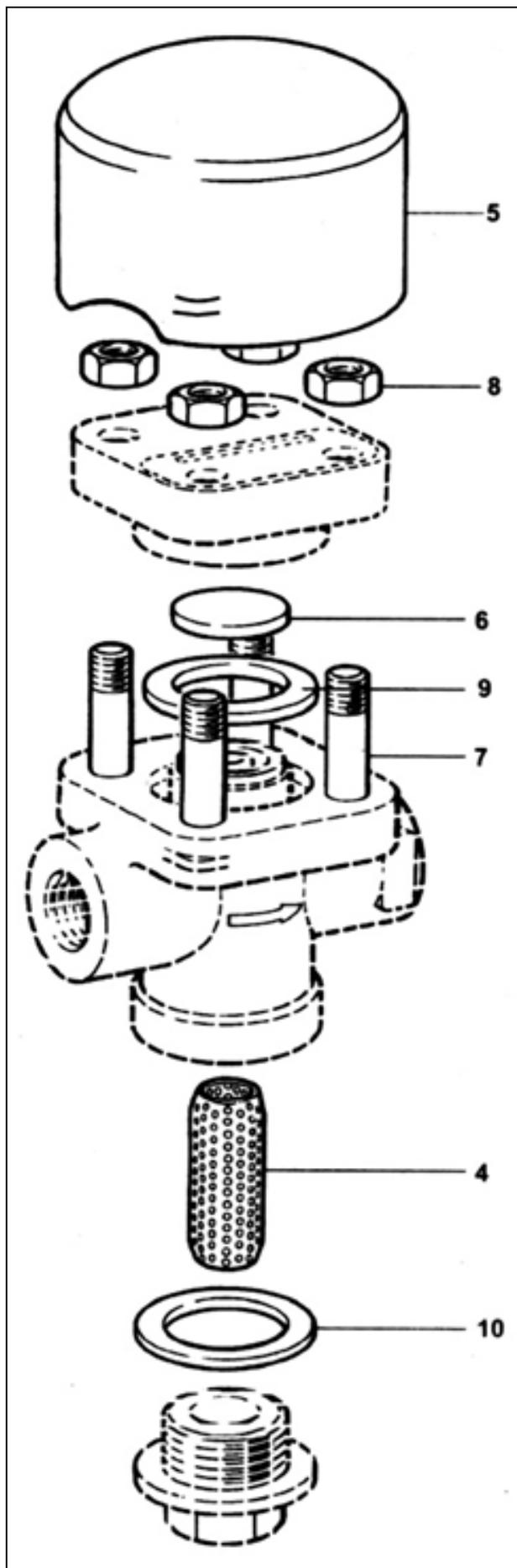
Access to the strainer screen can be obtained by removing strainer cap. Remove strainer screen. Fit new or cleaned strainer screen into recess in cap. A new gasket should be fitted and the cap screwed into the body. The use of a thread lubricant is recommended.

### To replace cover studs

After removing old cover studs, fit new cover studs until the studs bottom out. The use of a thread lubricant is recommended.

### Recommended tightening torques

Item size	 mm or 	Nm	ft lb
7	M10x1.5	20-25	15-18
8	17	45-50	33-37
3	32	142-158	105-117



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