Cert. No. LRQ 0963008

ISO 9001

TI-P181-01
ST Issue 4

BTD52L
Thermodynamic Steam Trap

Description
The BTD52L is manufactured from 316L stainless steel specifically for mains drainage applications in clean steam systems.

Sizes and pipe connections
¼", ⅜", ½" screwed BSP or NPT.
½" O/D x 16 swg (0.065") wall thickness tube end.

DN 11850 (Series 1) tube ends
12 mm O/D x 1.0 mm wall thickness (DN10)
18 mm O/D x 1.0 mm wall thickness (DN15)

ISO 1127 (Series 1) tube ends
17.2 mm O/D x 1.6 mm wall thickness (DN10)
21.3 mm O/D x 1.6 mm wall thickness (DN15)

½" **Sanitary clamp compatible connections** (DN15)

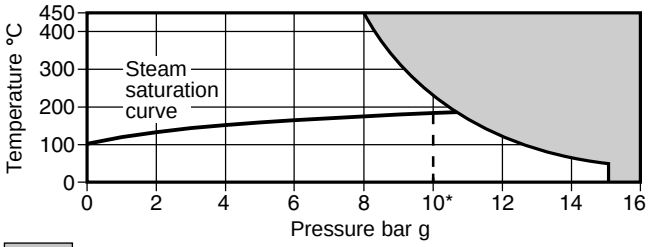
Optional extras
An insulating cover is available at extra cost to prevent the trap being unduly influenced by excessive heat loss when subjected to low ambient temperature, wind and rain etc.

Limiting conditions

Body design conditions	PN16
PMA - Maximum allowable pressure	16 bar g
TMA - Maximum allowable temperature	450°C
PMO - Maximum operating pressure	10 bar g
TMO - Maximum operating temperature	450°C
Designed for a maximum cold hydraulic test pressure of 24 bar g	

Note: Minimum pressure for satisfactory operation is 0.25 bar g.

Operating range



The product must not be used in this region.

***** PMO Maximum operating pressure recommended for steam service.

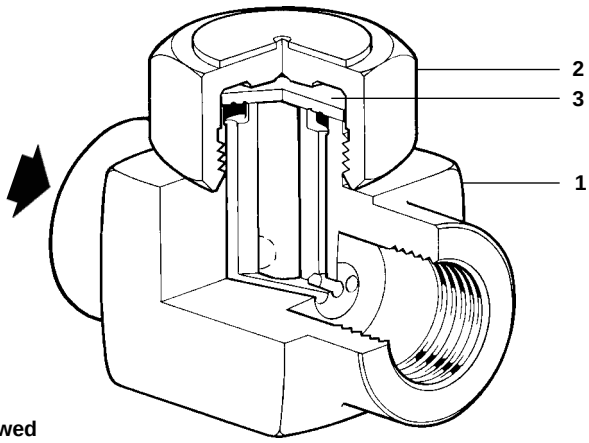
PMOB Maximum operating back pressure 80% of upstream pressure.

Materials

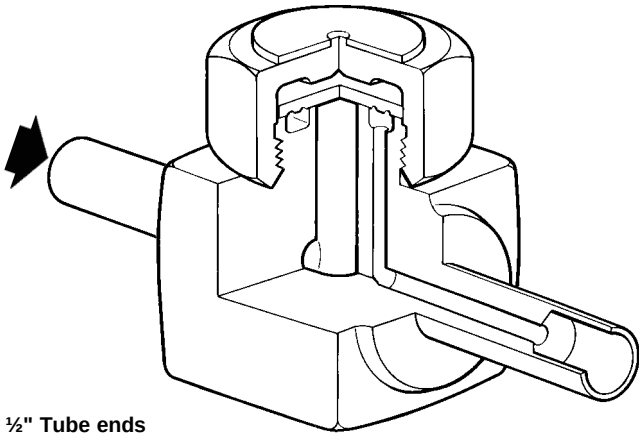
No.	Part	Material	
1	Body	Austenitic stainless steel	AISI 316L
2	Cap	Austenitic stainless steel	AISI 316L
3	Disc	Austenitic stainless steel	AISI 316L
***4**	Insulating cover (optional extra)	Aluminium	

*** Note:** Item 4 is shown overleaf

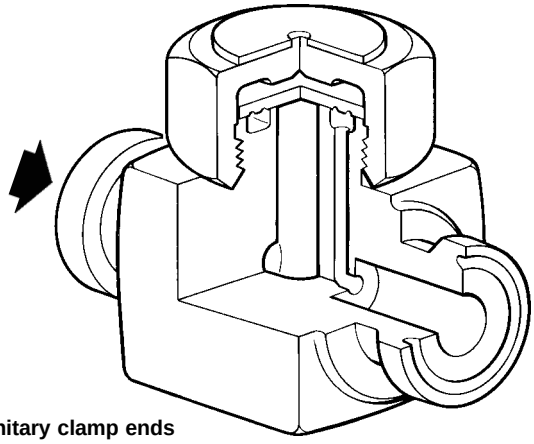
Certification
This product is available with certification to EN10204 3.1.B.
Note: All certification/inspection requirements must be stated at the time of order placement.



Screwed



½" Tube ends

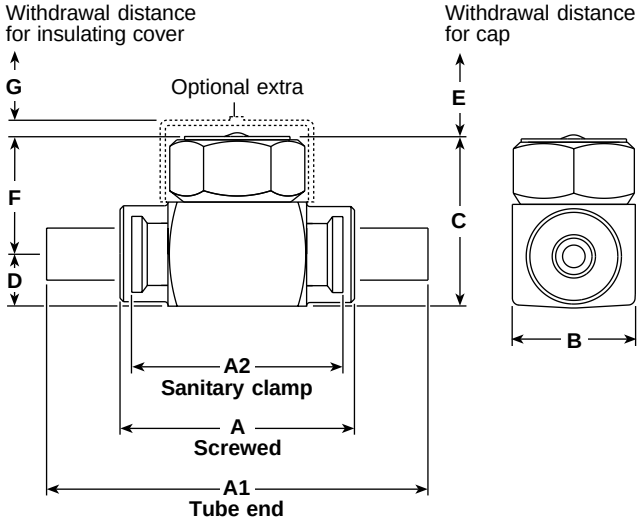


Sanitary clamp ends

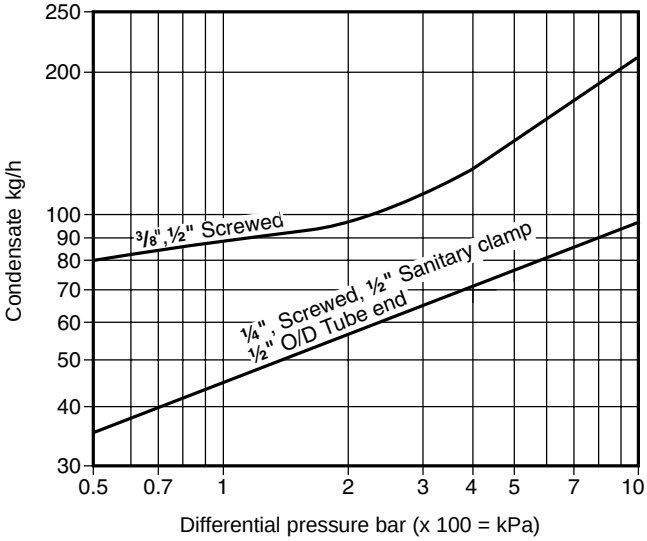
Local regulations may restrict the use of this product to below the conditions quoted.
In the interests of development and improvement of the product, we reserve the right to change the specification.

Dimensions/weights (approximate) in mm and kg

Size	A	A1	A2	B	C	D	E	F	G	Weights Screwed	Weights Tube end	Weights Sanitary clamp
¼"	65	-	-	36	53	15	40	20	38	0.45	0.45	-
⅜"	65	-	-	36	53	15	40	20	38	0.45	0.45	-
½"	65	123	65	36	53	15	40	20	38	0.45	0.45	0.55



Capacities



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P181-03) supplied with the product.
The trap should preferably be installed in the horizontal plane, with a small drop leg preceding it. For freeze proof installation, or where horizontal fitting is not possible, the BTD52L may be installed vertically, but the service life may be affected. Suitable isolation valves must be installed to allow for safe maintenance and trap replacement.
When the trap discharges into a closed return system, a non-return valve should be fitted downstream to prevent return flow.

Disposal

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

How to order

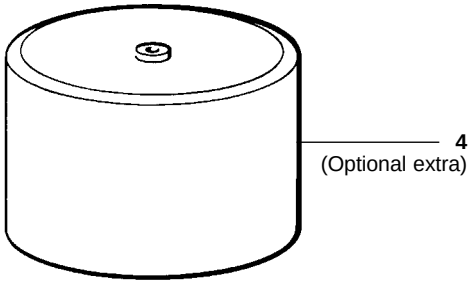
Example: 1 off Spirax Sarco BTD52L thermodynamic steam trap in 316L stainless steel with tube ends 17.2 mm O/D x 1.6 mm wall thickness (ISO 1127, Series 1).

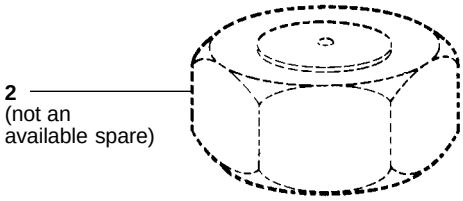
Spare parts

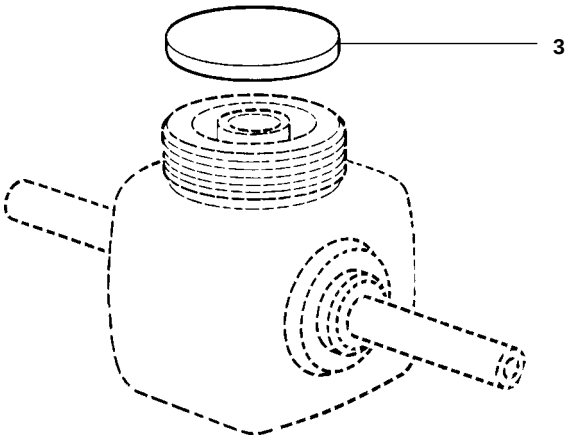
The spare parts available are shown in heavy outline. Parts drawn in broken line are not supplied as spares.

Available spares	
Disc	**3**
Insulating cover	**4**

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 - Disc for a ½" BSP Spirax Sarco BTD52L thermodynamic steam trap.







Recommended tightening torques

Warning: When torquing or untorquing the cap, some support should be given to the body of the trap to prevent over stressing and/or distortion of the end connections and system pipework.

Item	or mm	N m
2	36 A/F	115 - 130