



TI-P181-01
CMGT Issue 7

BTD52L Thermodynamic Steam Trap

Description

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

Standards

These products fully comply with the requirements of the European Pressure Equipment Directive 2014/68/EU.

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

1/4", 3/8", 1/2" screwed BSP or NPT.
1/2" O/D x 16 swg (0.065") wall thickness tube end.

DN 11850 (Series 1) tube ends

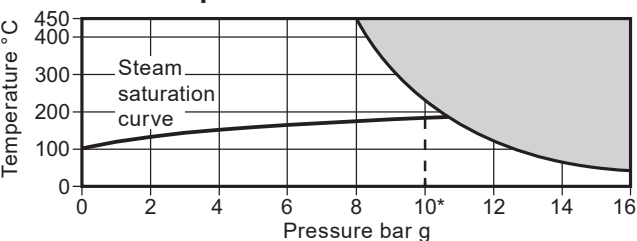
12 mm O/D x 1.0 mm wall thickness (DN10)
18 mm O/D x 1.0 mm wall thickness (DN15)

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)

1/2" Sanitary clamp compatible connections (DN15)

Pressure/temperature limits

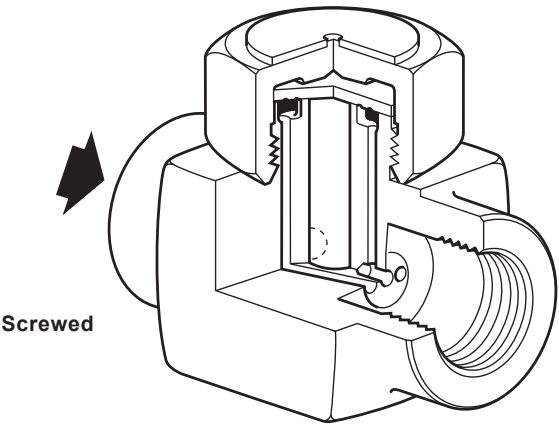


The product **must not** be used in this region.

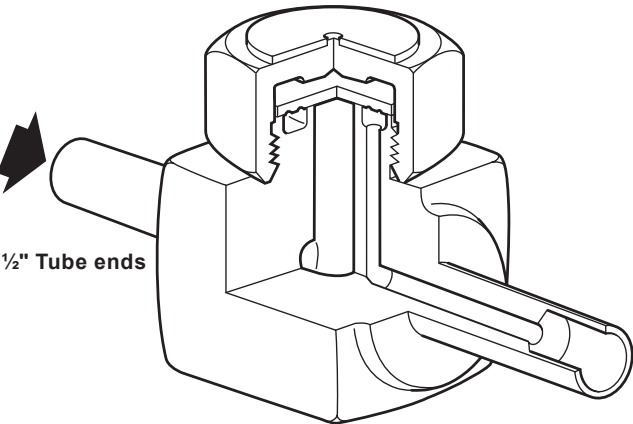
Body design conditions		PN16
PMA	Maximum allowable pressure	16 bar g @ 50 °C
TMA	Maximum allowable temperature	450 °C @ 8 bar g
Minimum allowable temperature		0 °C
*PMO	Maximum operating pressure recommended for steam service	10 bar g @ 220 °C
TMO	Maximum operating temperature	450 °C @ 8 bar g
Minimum operating temperature		0 °C
Note: For lower operating temperatures consult Spirax Sarco		
PMOB	Maximum operating backpressure should not exceed 80% of the upstream pressure	
Minimum operating differential pressure for satisfactory operation		0.25 bar g
Designed for a maximum cold hydraulic test pressure of 24 bar g		

Optional extras

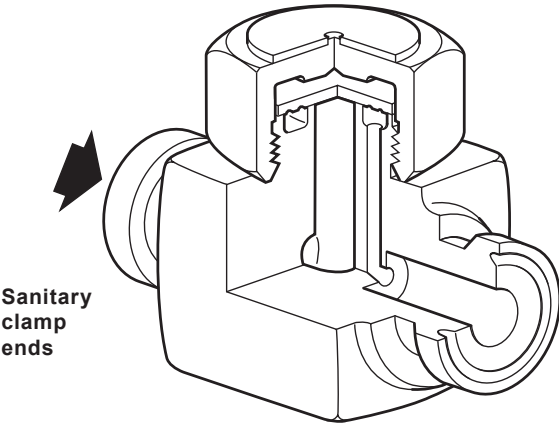
An insulating cover is available at extra cost to prevent the trap being unduly influenced by excessive heat loss when subjected to low ambient temperature, wind and rain etc.



Screwed



1/2" Tube ends



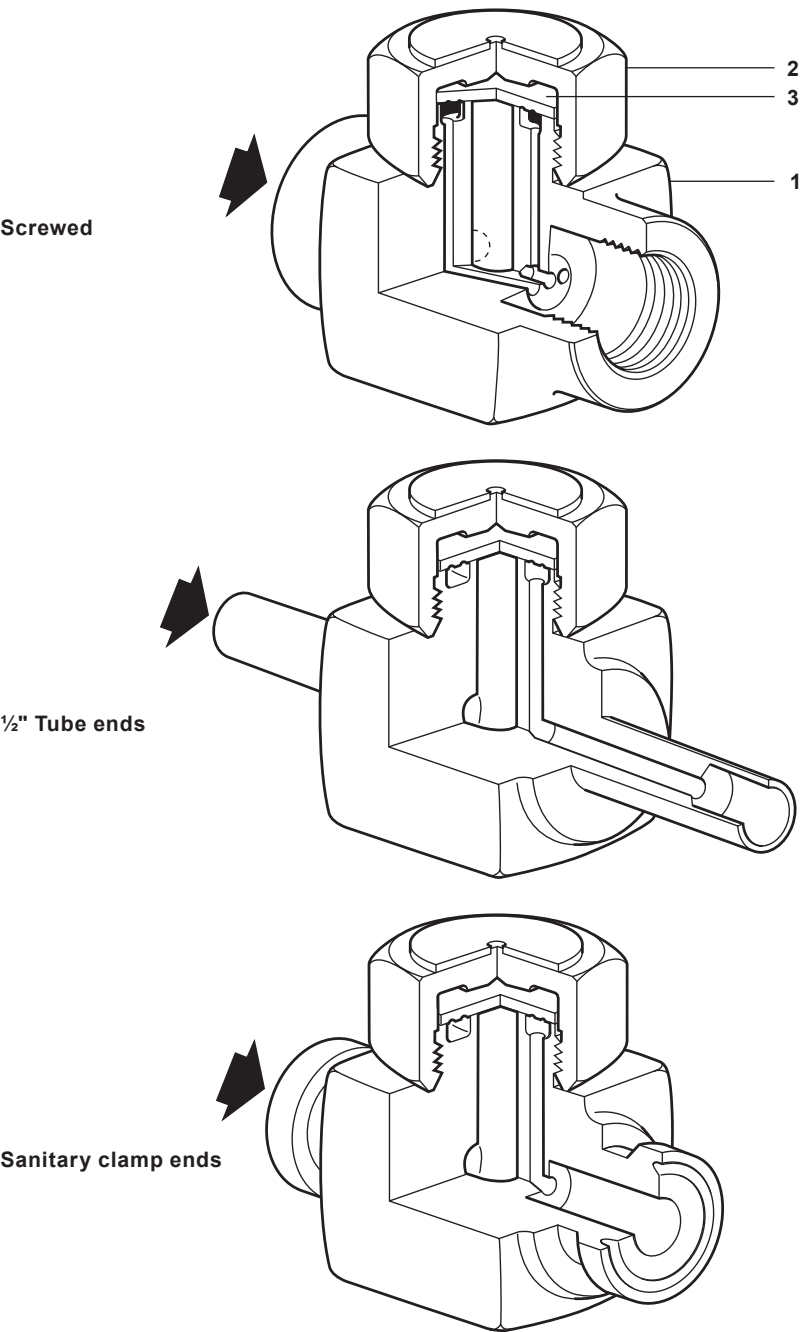
Sanitary clamp ends

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Steam traps
Swivel connectors and traps



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Materials

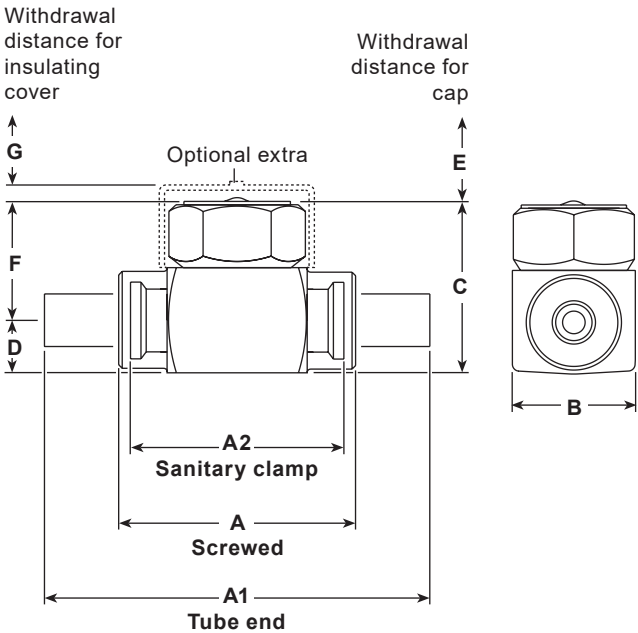
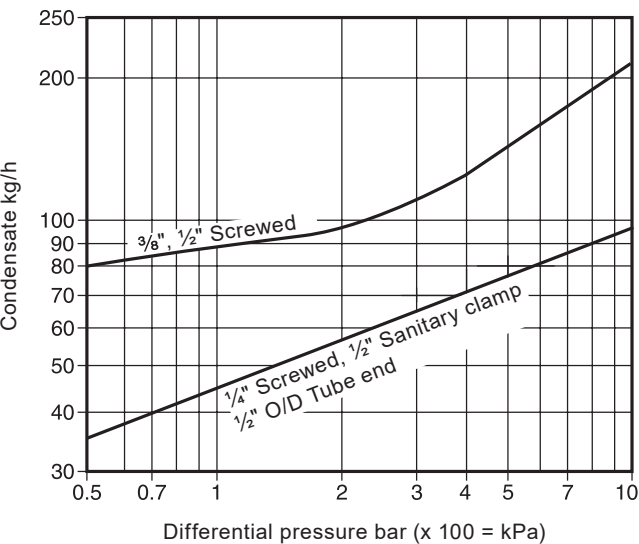
No.	Part	Material	
1	Body	Austenitic stainless steel	AISI 316L
2	Cap	Austenitic stainless steel	AISI 316L
3	Disc	Austenitic stainless steel	AISI 316L
4 **	Insulating cover (optional extra)	Aluminium	

** Note: For clarity item 4 is shown page 4.

Dimensions/weights (approximate) in mm and kg

Size		Dimensions									Weights		
		A	A1	A2	B	C	D	E	F	G	Screwed	Tube Ends	Sanitary clamp
All sizes	Sanitary clamp BSP or NPT	65		65	36	53	15	40	38	38	0.45		0.55
	Tube ends		123		36	51	14	40	37	38		0.45	

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).

Steam traps
Swivel connectors and traps

Spare parts

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

Available spares

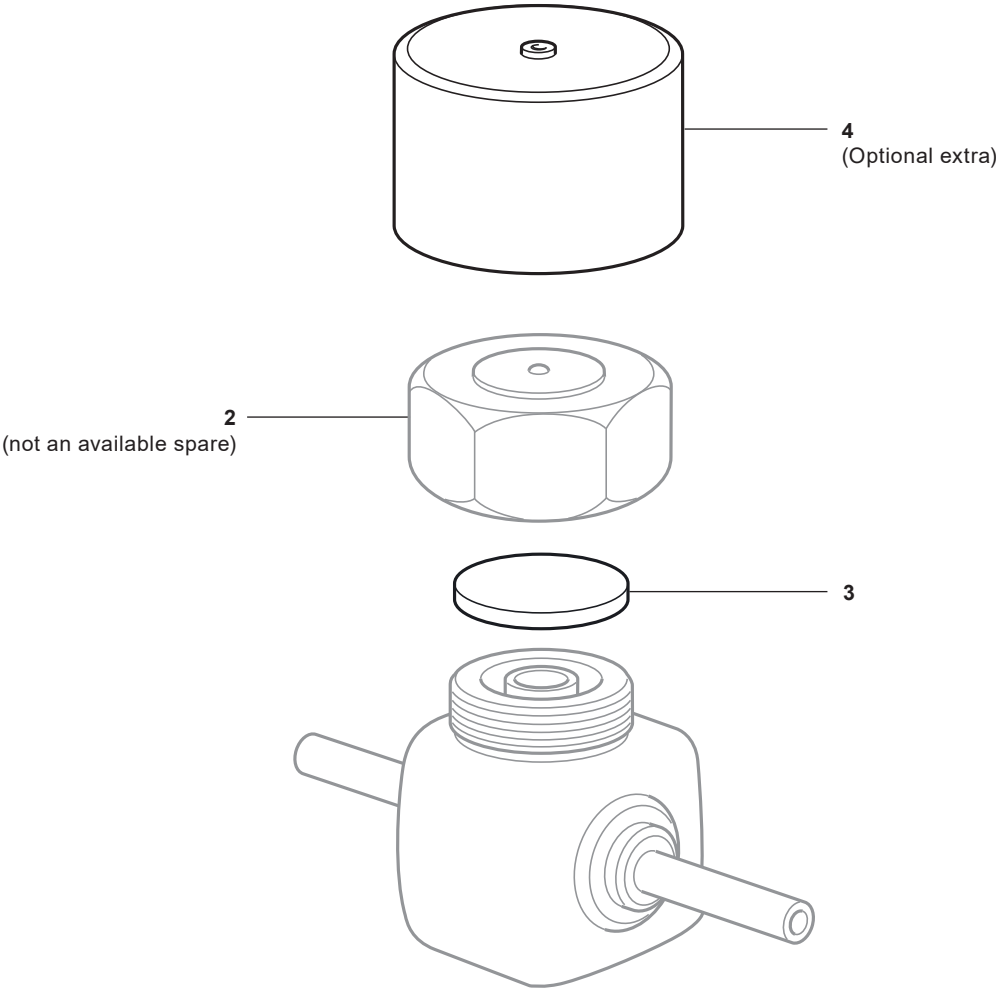
Disc	3
Insulating cover	4

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