



TD42SLT

Thermodynamic Steam Traps

Description

The TD42SLT is a thermodynamic steam trap with forged steel body and socket weld ends, suitable for low temperature applications down to -46 °C.

A full range of lower capacity traps (½" - 1") designated TD42SLT LC are available for applications such as mains drainage or tracing.

Standards

This product fully complies 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

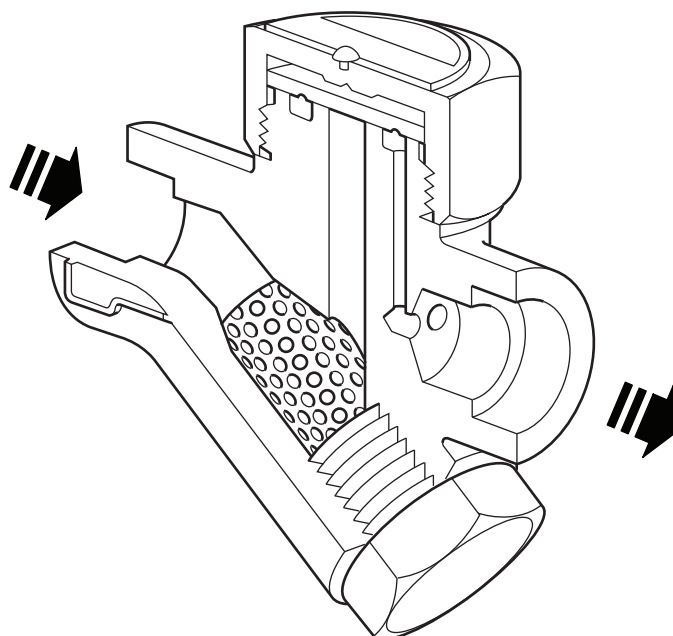
½"LC, ¾"LC, 1"LC, ½", ¾" and 1" socket weld ends to:

ASME (ANSI) B 16.11 Schedule 80 / BS 3799 Class 3000 lb.

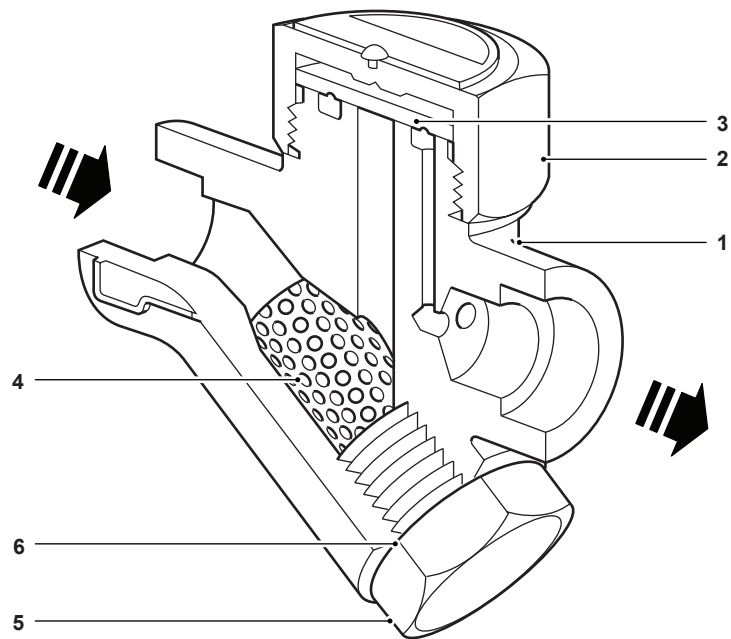
Optional extra

Insulating cover

To prevent the trap being unduly influenced by excessive heat loss such as when subjected to low outside temperatures, wind, rain etc.



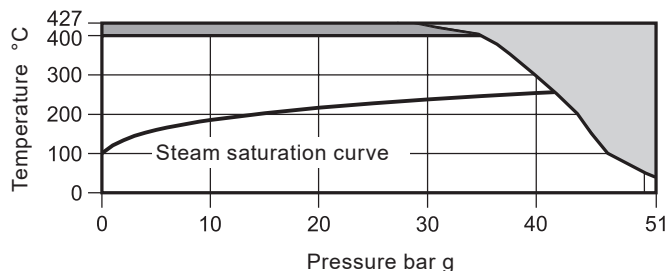
Materials



No.	Part	Material
1	Body	Steel ASTM A105N and A350 LF2
2	Cap	Stainless steel AISI 316L
3	Disc	Stainless steel EN 10088 1.4034
4	Strainer screen	Stainless steel AISI 304
5	Strainer cap	Steel AISI 316L
6	Strainer cap gasket	Stainless steel BS 1449 304 S16
7*	Insulating cover (optional extra)	Aluminium

* **Note:** Item 7 is shown on the spares illustration overleaf.

Pressure/temperature limits (ISO 6552)



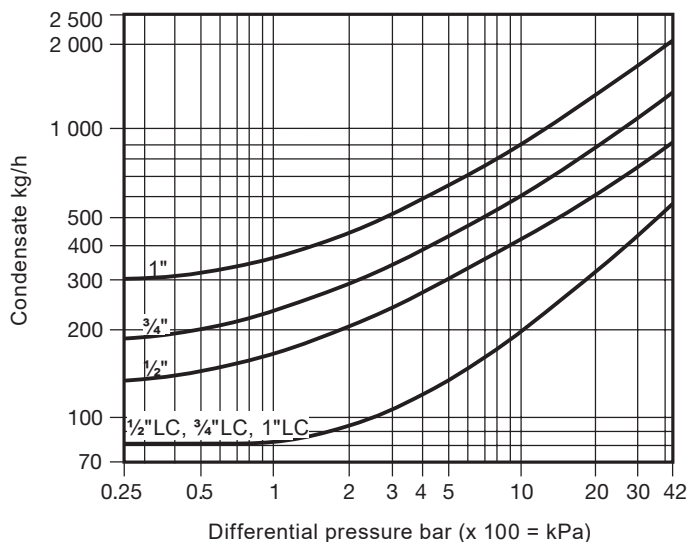
The product **must not** be used in this region.

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Note: Upon prolonged exposure to temperatures above 425 °C, the carbide phase of steel may be converted to graphite. Permissible but not recommended for prolonged use above 425 °C.

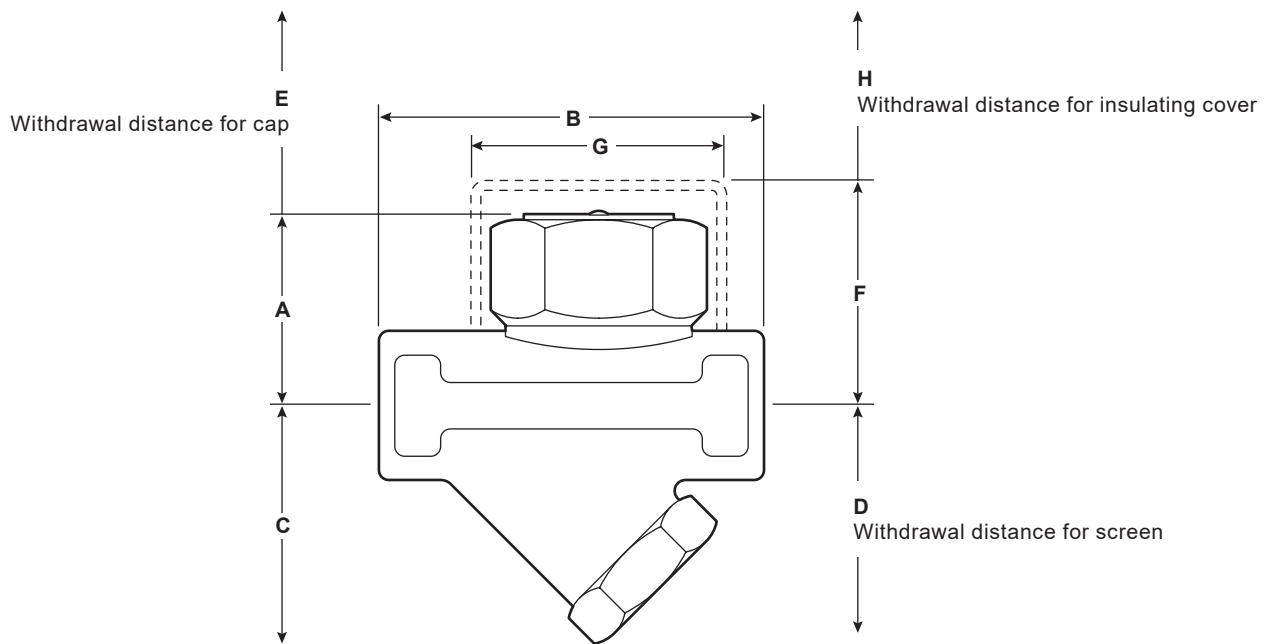
Body design conditions	ANSI/ASME 300
PMA Maximum allowable pressure	51 bar g @ 38 °C
TMA Maximum allowable temperature	427 °C @ 28 bar g
Minimum allowable temperature	-46 °C
PMO Maximum operating pressure for saturated steam service	42 bar g
TMO Maximum operating temperature	400 °C @ 34 bar g
Minimum operating temperature	0 °C
Note: For lower operating temperatures consult Spirax Sarco	
ΔPMX Maximum differential pressure	42 bar
PMOB Maximum operating backpressure should not exceed 80% of the inlet pressure.	
Minimum inlet pressure for satisfactory operation	0.25 bar g
Product is safe for use under full vacuum conditions	
Designed for a maximum cold hydraulic test pressure of:	76 bar g

Capacities



When sizing the TD42SLT it is important to ensure that the correct model is selected. This will ensure the required operation and maximum life. For mains drainage and tracing applications the LC version should be selected irrespective of pipe size.

Dimensions/weights (approximate) in mm and kg



Size	A	B	C	D	E	F	G	H	Weight
½"	41	76	46	71	20	57	57	38	0.80
½" LC	40	76	46	71	20	57	57	38	0.75
¾"	47	78	47	72	20	63	57	38	1.00
¾" LC	44	78	47	72	20	57	57	38	1.00
1"	53	92	52	77	25	63	70	38	1.50
1" LC	48	92	52	77	20	60	57	38	1.50

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P068-37) supplied with the product.

Installation note

The TD42SLT should be installed preferably in the horizontal position. However it can also be installed and operate in other orientations.

Disposal

This 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 ½" TD42SLT thermodynamic steam trap fitted with an insulating cover for outside weather protection and having socket weld end connections.

Spare parts

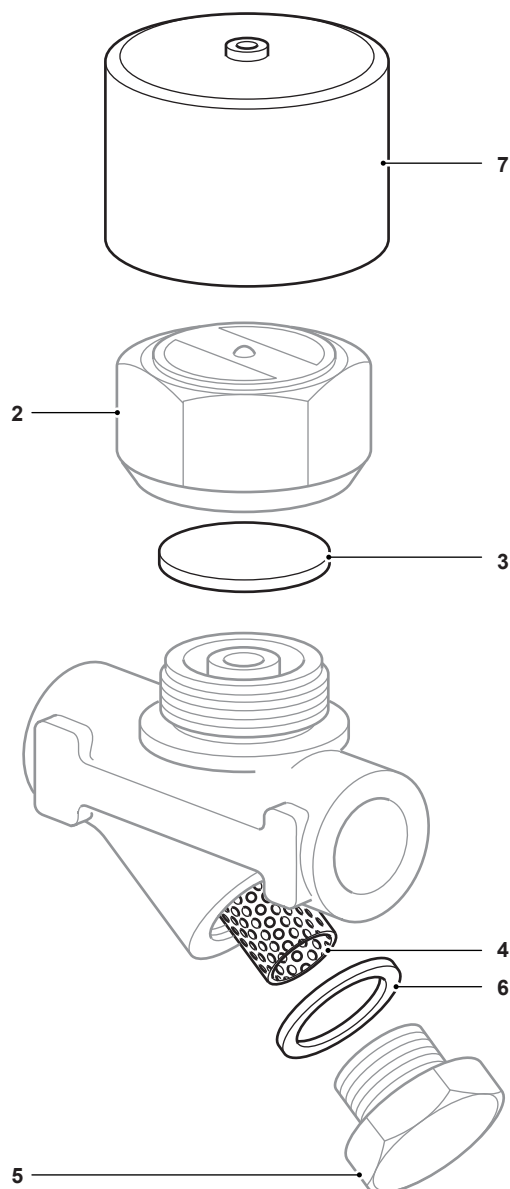
The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Available spares

Disc	(packet of 3)	3
Strainer screen and gasket		4, 6
Strainer cap gasket	(packet of 3)	6
Insulating cover		7

Recommended tightening torques

Item	Part	 or mm		N m
2	½" LC	36 A/F		87 - 97
	¾" LC	36 A/F		87 - 97
	1" LC	36 A/F		87 - 97
	½"	41 A/F		100 - 110
	¾"	41 A/F		100 - 110
	1"	55 A/F		140 - 160
5	(all sizes)	27 A/F	M24	120 - 135



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 off Strainer screen and gasket for a Spirax Sarco ½" TD42SLT thermodynamic steam trap.