



Cert. No. LRQ 0963008

ISO 9001

spirax sarco

ITD32

Thermodynamic Steam Trap with Integral Spiratec Sensor

TI-P614-01
ST Issue 3


Description

The ITD32 is a maintainable thermodynamic steam trap supplied fitted with an integral Spiratec sensor:

Available sensor options:

SS1	Sensor to detect steam leakage only.
WLS1	Sensor to detect waterlogging and steam leakage.
WLS1 and Diode pack	Sensor to detect waterlogging and steam leakage for use with R16C steam trap monitor.

The ITD32 can be simply integrated into all existing Spiratec monitoring systems. All external body surfaces have an electroless nickel plate (ENP) finish which is both energy saving and oxidation resistant. For those applications where the release of air is a concern, an anti-air-binding disc is available i.e. ITD32LA and ITD32HA.

ITD32 trap options:

ITD32L	Low capacity.
ITD32LA	Low capacity and anti-air-binding disc.
ITD32H	High capacity.
ITD32HA	High capacity and anti-air-binding disc.

Standards

The product fully complies with the requirements of the European Pressure Equipment Directive 97 / 23 / EC.

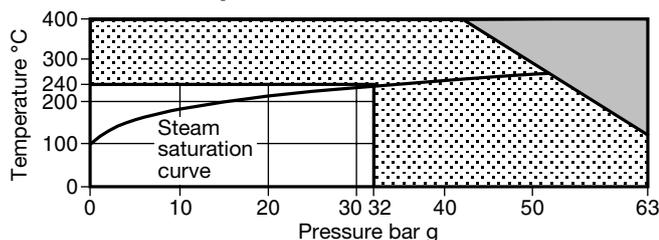
Certification

This product is available with a manufacturers' Typical Test Report.
Note: All certification /inspection requirements must be stated at the time of order placement.

Optional extras

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

Pressure / temperature limits (ISO 6552)



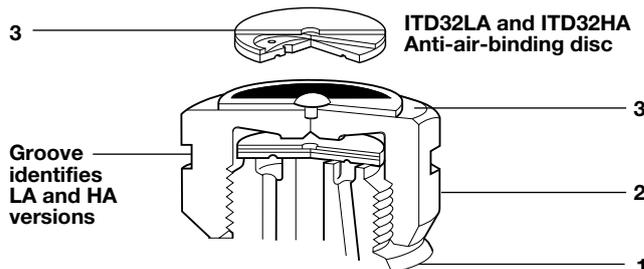
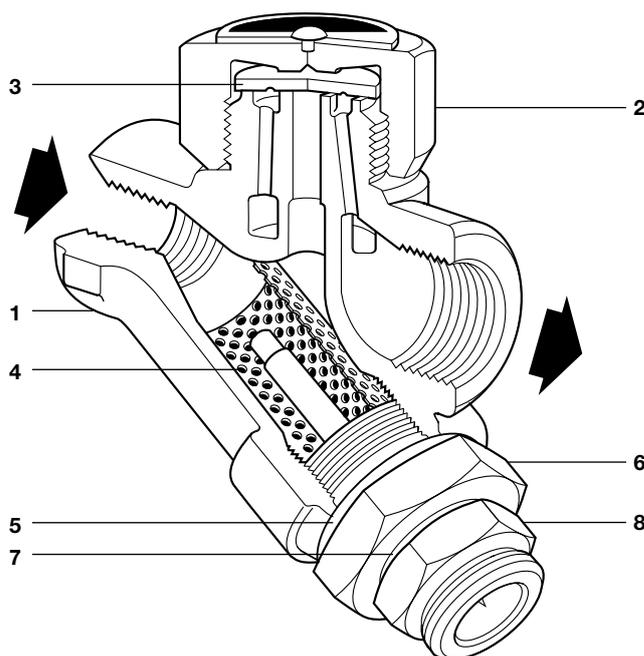
■ The product **must not** be used in this region.

* ■ The sensor limits the PMA and TMA to 240°C @ 32 bar g.

Body design conditions		PN63
* PMA	Maximum allowable pressure	63 bar g @ 100°C
* TMA	Maximum allowable temperature	400°C @ 42 bar g
Minimum allowable temperature		0°C
PMO	Maximum operating pressure	32 bar g
TMO	Maximum operating temperature	240°C @ 32 bar g
Minimum operating temperature		0°C
Minimum inlet pressure for satisfactory operation		ITD42L and ITD42H 0.25 bar g ITD42LA and ITD42HA 0.80 bar g
PMOB	Maximum operating backpressure should not exceed 80% of the upstream pressure	
Designed for a maximum cold hydraulic test pressure of 95 bar g		

Sizes and pipe connections

ITD32L and ITD32LA	½" and ¾" screwed BSP or NPT.
ITD32H and ITD32HA	½" screwed BSP or NPT.



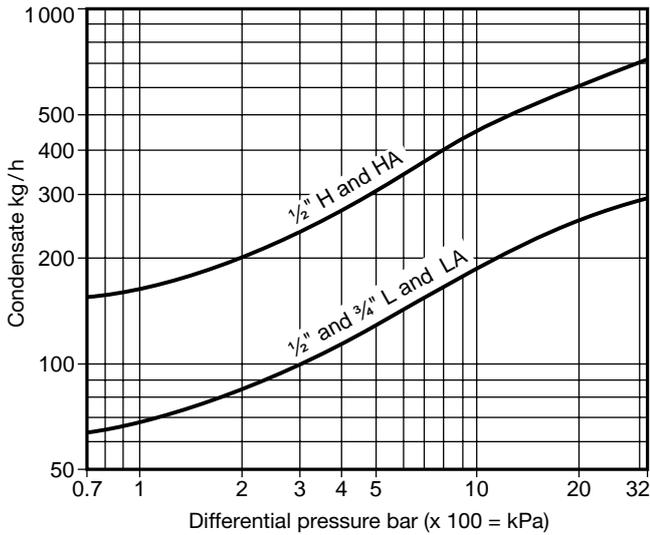
Materials

No.	Part	Material
1	Body	Stainless steel (with ENP finish) ASTM A743 Gr. CA 40 F
2	Cap	Stainless steel AISI 416
3	Disc	Stainless steel BS 1449 420 S45
4	Strainer screen	Stainless steel BS 1449 304 S16
5	Adapter gasket	Stainless steel BS 1449 304 S16
6	Sensor adapter	Stainless steel BS 970 416 S37
7	Sensor gasket	Stainless steel BS 1449 304 S16
8	Sensor	Stainless steel BS 1449 304 S16
9	Blanking plug (not shown)	Steel
10	Insulating cover (optional extra)	Aluminium

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 without notice.

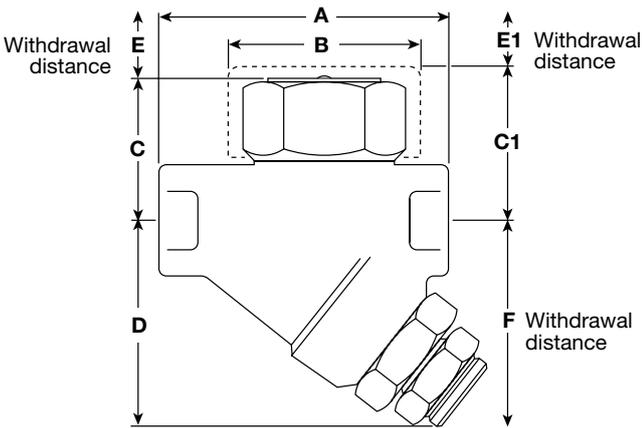
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Capacities (in accordance with ISO 7842)



Dimensions/weights (approximate) in mm and kg

Size	A	B	C	C1	D	E	E1	F	Weight
1/2" L and LA	78	57	41	52	59	20	38	90	0.80
1/2" H and HA	78	57	41	57	59	41	38	90	0.85
3/4" L and LA	90	57	44	52	65	20	38	105	1.00



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-F01-30) supplied with the product.

Installation note:

The ITD32 should be installed in horizontal pipework with a small drop leg preceding it. The sensor must be positioned directly below the trap body.

Maintenance note:

It is recommended that new gaskets and spares are used whenever maintenance is undertaken. Maintenance may be completed with the trap in the pipeline.

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 1/2" ITD32L thermodynamic steam trap having an integral Spiratec sensor:

- WLS1 to identify waterlogging and steam wastage or
 - SS1 for steam leakage only.
- Sensors are to be compatible with Spiratec indicators, automatic monitors and test points:
- R1 (single trap) remote test point
 - R1C (single trap) automatic steam trap monitor with PNP / NPN output where appropriate
 - R12 (12 trap) remote test point
 - R16C (16 traps) automatic steam trap monitor
 - Type 30 hand held indicator

Spare parts

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

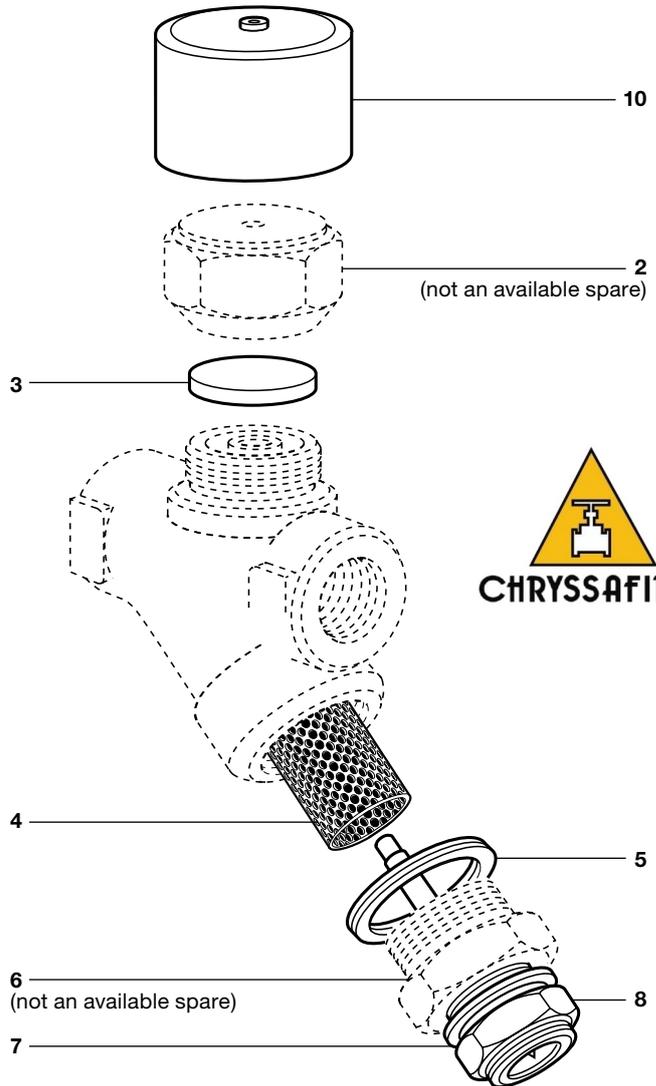
Available spares

Disc (packet of 3)	ITD32L or ITD32H	3
Disc and strainer screen	ITD32LA or ITD32HA	3, 4, 5
Y-type strainer screen and gasket	ITD32L or ITD32H	4, 5
Sensor adapter gasket (packet of 3)		5
Sensor and sensor gasket		7, 8
Insulating cover		10

How to order spares

Always order spare parts by using the description given in the column headed 'Available spares' and state the size, model number and pressure rating of the trap.

Example: 1 - Y-type strainer screen and gasket for a Spirax Sarco 1/2" ITD32L thermodynamic steam trap with integral sensor.



Recommended tightening torques

Item No.		or mm	N m
2	ITD32L and LA	36 A/F	135 - 150
	ITD32H and HA	41 A/F	135 - 150
6		32 A/F M28	170 - 190
8		24 A/F	50 - 55