

spirax sarco

IUTD30L and IUTD30H Thermodynamic Steam Traps with Integral Spiratec Sensors

Description

The IUTD30L and IUTD30H stainless steel thermodynamic steam traps with integral strainer are fitted to pipeline connectors. The IUTD30L is specifically designed for lower loads associated with mains drainage and tracing applications up to 30 bar g. The IUTD30H is designed for higher loads. Both traps are fitted with an integral Spiratec sensor for quick and

Both traps are fitted with an integral Spiratec sensor for quick and accurate detection of steam leakage and/or system cooling. Traps can be supplied with sensors to detect waterlogging and steam wastage (WLS1) or for steam leakage only (SS1).

All trap/sensor types can be simply integrated into all existing Spiratec monitoring systems. All trap bodies have an electroless nickel preparation finish (ENP) which is both energy efficient and corrosion resistant. The traps are fitted by two screws to a permanently installed stainless steel pipeline connector to ensure the maintenance is both quick and easily undertaken. Traps can be removed/replaced using a simple wrench with minimum system downtime.

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.

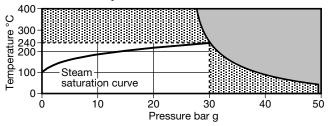
Standards

These products fully comply with the requirements of the European Pressure Equipment Directive 97/23/EC.

Certification

These products are available with certification to EN 10204 3.1. **Note:** All certification / inspection requirements must be stated at the time of order placement.

Pressure / temperature limits (ISO 6552)



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

The product should not be used in this region or beyond its operating range as damage to the internals may occur.

Note: The model of pipeline connector and connections selected will dictate the maximum operating limits of the complete assembly. Reference the specific pipeline connector Technical Information sheet as detailed in 'Pipeline connector options'.

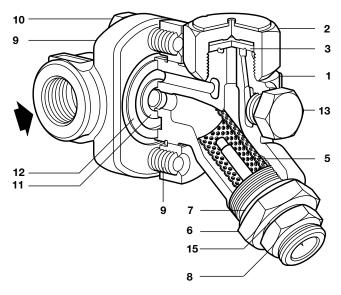
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Body de	esign conditions	PN	50 (AN	SI 300)
PMA	Maximum allowable pressure	50	bar g @	҈ 38°C
TMA	Maximum allowable temperature	400°C	@ 27.5	5 bar g
Minimu	m allowable temperature			0°C
РМО	Maximum operating pressure for saturated steam service		30) bar g
Maximu	ım operating temperature	240	0°C @ 3	0 bar g
Minimui Note: F	m operating temperature For lower operating temperatures	consult	Spirax	0°C Sarco
ΔΡΜΧ	Maximum differential pressure			30 bar
РМОВ	Maximum operating backpressur 80% of the upstream pressure	e should	not e	exceed
Minimu	m inlet pressure for satisfactory oper	ation	0.25	5 bar g
Designe	ed for a maximum cold hydraulic tes	st pressu	re of 75	5 bar g

Pipeline connector options

The IUTD30 can be fitted to a variety of pipeline connectors:

PC10	Straight connector	ANSI/ASME 300	(TI-P128-10)
PC10HP	Straight connector	ANSI/ASME 600	(TI-P128-10)
PC3_	Connector with one piston isolation valve	ANSI/ASME 600	(TI-P128-02)
PC4_	Connector with two piston isolation valves	ANSI/ASME 600	(TI-P128-03)

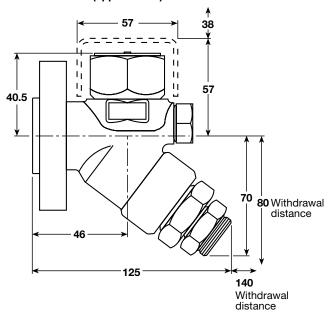
See the relevant Technical Information sheet as listed above for details of the connections available for each pipeline connector.



Materials

No.	Part	Material	
1	Body	Stainless steel/ENP	ASTM A 743 Gr. CA 40 F
2	Сар	Stainless steel	ASTM A582 416
3	Disc	Stainless steel	BS 1449 420 S45
5	Strainer screen	Stainless steel	BS 1449 304 S16
6	Sensor adaptor	Stainless steel	BS 970 416 S37
7	Adaptor gasket	Stainless steel	BS 1449 304 S16
8	Sensor	Stainless steel	
9	Pipeline connector	Stainless steel	ASTM A351 CF8
10	Connector screw	Steel	ASTM A193 B7
11	Inlet gasket	Graphite / Stainless steel laminate	AISI 316 strip
12	Outlet gasket	Graphite / Stainless steel laminate	AISI 316 strip
13	Plug	Stainless steel	ASTM A276 431
14	Insulating cover (optional extra)	Aluminium	
15	Sensor gasket	Stainless steel	
16	Blanking plug (not shown)	Steel	

Dimensions (approximate) im mm



Weight (approximate) in kg

IUTD30L/H with SS1 sensor	2.50
IUTD30L/H with WLS sensor	2.65

Safety information, installation and maintenance

For full details see the installation and Maintenance Instructions (IM-P154-02) supplied with the product.

Installation note:

The pipework connector can be installed in either horizontal or vertical pipework.

The mating flange on the IUTD30 trap is free to rotate 360°. The steam trap should be fitted with the cap above the centre line of the trap, Ensure that the steam trap is in a horizontal position with the cap (2) uppermost.

It is recommended that a non-return valve is fitted when discharging condensate into return lines where backpressure is experienced It is also recommended that a diffuser is fitted when discharging to atmosphere.

For ease of maintenance, consideration should be given to fitting isolation valves upstream and downstream of the steam trap e.g. PC3_ and PC4_.

Disposal

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

How to order The IUTD30L is supplied in two parts:-

1. The swivel pipeline connector	PC10	Standard connection
	PC3_	One integral ISO valve
	PC4_	Two integral ISO valves

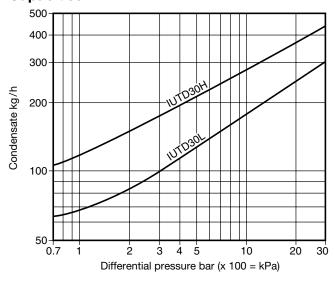
2. The IUTD30 trap complete with inner and outer gaskets (securely crimped in place) and two connector screws. These items will be supplied in a box.

Note: Any optional extras need to be specified at the time of order placement.

How to order example:

- 1 off Spirax Sarco DN20 PC10 swivel pipeline connector with socket weld connections.
- 1 off Spirax Sarco IUTD30L thermodynamic steam trap fitted with SS1 sensor, complete with connector screws and gaskets.
- 1 off Insulating cover to fit an IUTD30L.

Capacities



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

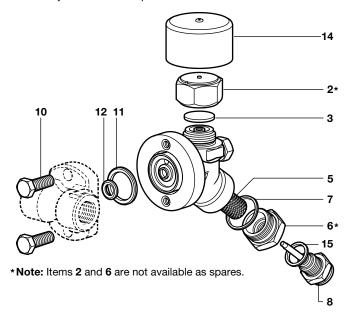
Available spares

Complete trap unit, excluding pipeline connector	
Connector screws and gasket	10, 11, 12
Disc (packet of 3)	3
Strainer screen	5
Strainer screen gasket	7
Insulating cover	14
Sensor assembly (state SS1 or WLS1)	8, 15

How to order

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of trap.

Example: 1 - Packet of 3 discs for a Spirax Sarco IUTD30L thermodynamic steam trap.



Recommended tightening torques

Item	1		or mm	Nm
2	(UTD30L)	36 A/F		135 - 150
	(UTD30H)	41 A/F		135 - 150
6		32 A/F		170 - 190
8	-	24 A/F		50 - 55
10		9/16"		30 - 35