TI-IBR16-31IN

Issue 1



TD42S2 Thermodynamic Steam Traps

Description

The TD42S2 is a thermodynamic steam trap with forged steel body and socket weld ends.

A full range of lower capacity traps ($\frac{1}{2}$ " - 1") designated TD42S2LC are available for applications such as mains drainage or tracing.

Standards

This product fully complies with the requirements of the Indian Boiler Regulation, 1950.

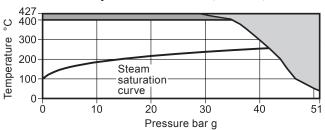
Certification

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.

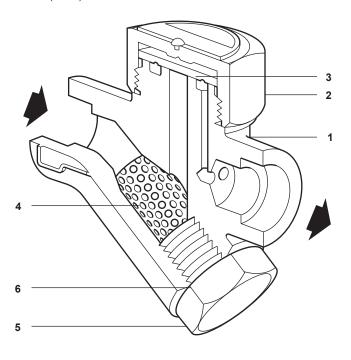
The product should not be used in this region.

Note: Upon prolonged exposure to temperatures above 425 $^{\circ}$ C (797 $^{\circ}$ F), the carbide phase of steel may be converted to graphite. Permissible but not recommended for prolonged use above 425 $^{\circ}$ C (797 $^{\circ}$ F).

Body d	esign conditions					
PMA	Maximum allowable pressure	51 ba	ar g	@ 38°		
TMA	Maximum allowable temperature	427 °C	@	28 bar		
Minimu			0 °			
РМО	Maximum operating pressure for saturated steam service			42 bar		
TMO	Maximum operating temperature	400 °C	@	34 bar		
Minimum operating temperature Note: For lower operating temperatures consult Spirax Sarco.						
ΔΡΜΧ	X Maximum differential pressure 42					
РМОВ	Maximum operating backpressure should not exceed 80° of the upstream pressure					
	ım operating differential pressure for ctory operation			0.25 ba		
Design	ed for a maximum cold hydraulic test p	ressure o	of: 7	6.5 bar		

Sizes and pipe connections

 $\frac{1}{2}$ "LC, $\frac{3}{4}$ "LC, 1"LC, $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" socket weld ends to: ASME (ANSI) B 16.11 Schedule 80 / BS 3799 Class 3000 lb.

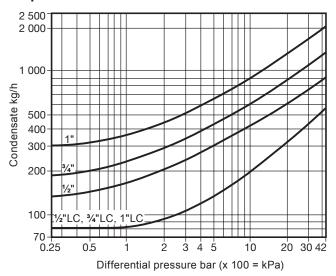


Materials

No.	Part	Material	
1	Body	Steel	ASTM A105N
2	Сар	Stainless steel	AISI 416
3	Disc	Stainless steel	BS 1449 420 S45
4	Strainer screen	Stainless steel	AISI 316L
5	Strainer cap	Steel	ASTM A105N
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.

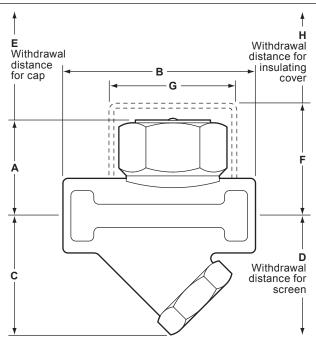
Capacities



When sizing the TD42S2 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	Α	В	С	D	Ε	F	G	Н	Weight
1/2"	41	76	46	71	20	57	57	38	0.80
½" LC	40	76	46	71	20	57	57	38	0.75
3/4"	47	78	47	72	20	63	57	38	1.00
3/4" 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-IBR16-30IN) supplied with the product.

Installation note

The TD42S2 should be installed preferably in the horizontal position. However it can also be installed and operate in other orientations.

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" TD42S2LC thermodynamic steam trap fitted with an insulating cover for outside weather protection and having socket weld end connections.

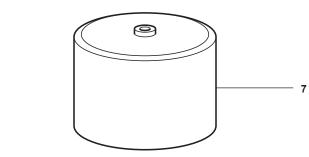
Spare partsThe spare parts available are shown in solid outline. Parts drawn in broken line are not supplied as spares.

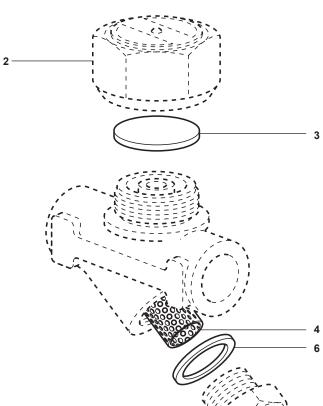
Available spares

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

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" TD42S2 thermodynamic steam trap.





Recommended tightening torques

	Recommended rightening torques					
Item			or mm		N m	
2	1/2" LC	36 A/F			87 - 97	
	3/4" LC	36 A/F			87 - 97	
	1" LC	36 A/F			87 - 97	
	1/2"	41 A/F			100 - 110	
	3/4"	41 A/F			100 - 110	
	1"	55 A/F			140 - 160	
5	(all sizes)	27 A/F	M	24	120 - 135	
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