

TI-P151-04 CMGT Issue 6

# TD42A Thermodynamic Steam Trap

### Description

The TD42A is a maintainable thermodynamic steam trap where the release of air is a concern. It is supplied with an anti-air-binding disc.

#### Standards

This product fully complies with the requirements of the Pressure Equipment Directive (PED).

#### 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.

### Sizes and pipe connections

3%", 1/2" LC and 1/2" screwed BSP (BS 21 parallel) or NPT.

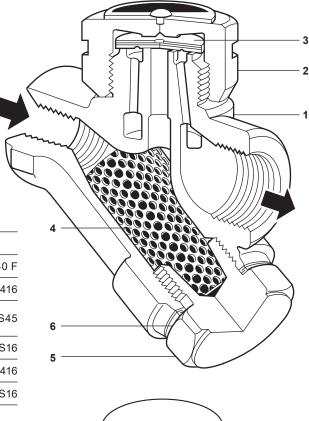
# **Optional extras**

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

**Integral blowdown valve:** a BDV1 or BDV2 can be fitted to the strainer cap, alternatively the strainer cap can be drilled, tapped and plugged %" BSP or NPT.

# **Materials**

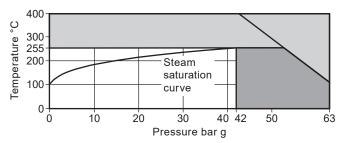
No.Part		Material	Material				
1	Body	Stainless steel	ASTM A743 Gr. CA 40 F				
2	Сар	Stainless steel	AISI 416				
3	Disc	Stainless steel Bi-metal	BS 1449 420 S45				
4	Strainer screen	Stainless steel	BS 1449 304 S16				
5	Strainer cap	Stainless steel	AISI 416				
6	Strainer cap gasket	Stainless steel	BS 1449 304 S16				
7	Insulating cover (optional extra)	Aluminium					



Anti-air-binding disc

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# Pressure/temperature limits



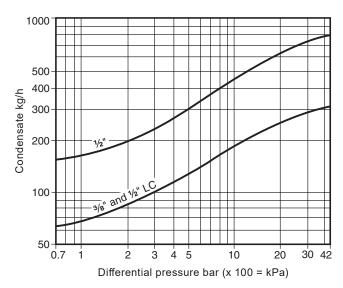
The product **must not** be used in this region.

For optimum product performance the PMO should not exceed 42 bar g.

Body	design conditions	PN63
PMA	Maximum allowable pressure	63 bar g @ 100 °C
ТМА	Maximum allowable temperature	400 °C @ 42 bar g
Minim	um allowable temperature	-10 °C
РМО	Maximum operating pressure for saturated steam service	42 bar g
тмо	Maximum operating temperature	255 °C
	um operating temperature For lower operating temperatures consult Spirax Sarco.	O° 0
PMOE	Maximum backpressure should not exceed 80% of PMOB the inlet pressure under trap may not shut-off.	er any conditions of operation otherwise the

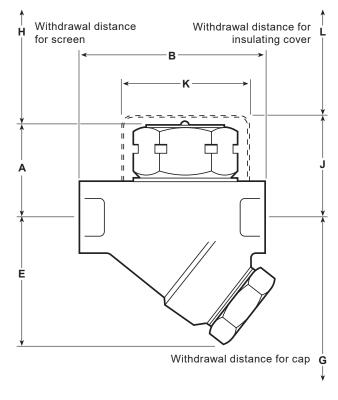
Minimum operating differential pressure for satisfactory operation	0.8 bar g
Designed for a maximum cold hydraulic test pressure of:	95 bar g

# Capacities



# Dimensions/weights (approximate) in mm and kg

Size	Α	в	Е	G	н	J	κ	L	Weight
3⁄8 <b>''</b>	41	78	55	85	41	57	57	38	0.75
1⁄2" LC	41	78	55	85	41	57	57	38	0.75
1⁄2"	41	78	55	85	41	57	57	38	0.80



**Safety information, installation and maintenance** For full details see the Installation and Maintenance Instructions (IM-P068-24) supplied with the product.

#### Installation note:

The TD42A is designed for installation with the capsule in a horizontal plane with the cover at the top.

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 and maintenance, consideration should be given to fitting isolation valves upstream and downstream of the steam trap.

#### 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 1/2" Spirax Sarco TD42A thermodynamic steam trap having screwed BSP connections.

# Spare parts

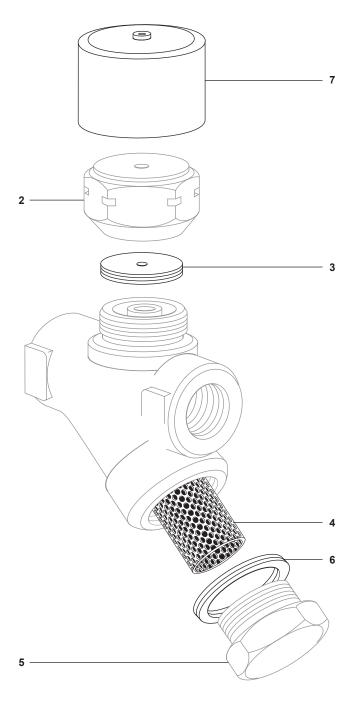
The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

# Available spares

Disc and screen	3, 4
Strainer screen and gasket	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 head 'Available spares' and state the size and type of trap. **Example:** 1 - Strainer screen and gasket for a Spirax Sarco ½" LC TD42A thermodynamic steam trap.



# **Recommended tightening torques**

ltem	Part	or mm		N m
2	(¾", ½" LC)	36 A/F		135 - 150
2	(1/2")	41 A/F		180 - 200
5		32 A/F	M28	170 - 190