ΘΕΡΜΟΔΥΝΑΜΙΚΕΣ ΑΤΜΟΠΑ

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. © Copyright 2013



spirax sarco

TI-P068-18

ST Issue 4

TD52M, TD52MLC, **TD52MA and TD52MLCA** Thermodynamic Steam Traps

Description

The TD52M is a maintainable thermodynamic steam trap manufactured in stainless steel specifically designed for relatively small condensate loads, such as steam mains drainage.

For very low condensate loads, such as steam mains drainage. For very low condensate loads, a low capacity version is available. This version is designated by the letters LC e.g.: **TD52MLC**. For those applications where the release of air is a concern an anti-air-binding disc is available. This version is designated by the letter A, e.g.: **TD52MA** and **TD52MLCA**.

Optional extra

An insulating cover is available to prevent the trap being unduly influenced by excessive heat loss such as when subjected to low outside temperatures, wind, rain etc. Not available for the 1" size.

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

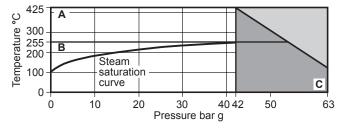
Certification

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

Sizes and pipe connections

Screwed BSP	TD52M and TD52MA	1/4" 3/8", 1/2", 3/4" and 1"
or NPT	TD52MLC and TD52MLC	A ½"

Pressure/temperature limits



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

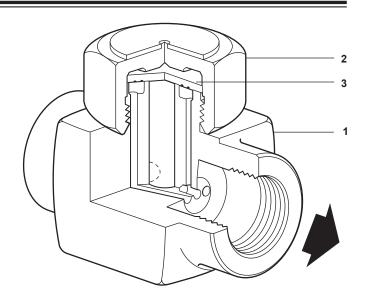
For optimum product performance the PMO should not exceed 42 bar g.

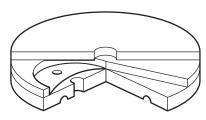
TD52M and TD52MLC

TD52MA and TD52MLCA

Body design conditions								PN63
PMA	Maximum allowable pressure					63 bar	g @	120°C
TMA	Maximum allowable	temp	era	ture		425°C	@ 4	2 bar g
Minimu	m allowable tempera	iture						0°C
РМО	Maximum operating for saturated stear						4	2 bar g
TMO	Maximum operating temperature	TD52	2M	and	MLC	425°C	@ 4	2 bar g
TIVIO		TD52	2MA	and	MLCA	255°C	@ 4	2 bar g
Minimum operating temperature 0°C						0°C		
PMOB Maximum operating backpressure must not exceed 80% of the upstream pressure.								
Minimu	m operating differer	ntial	TD:	52M	and	MLC	0	.25 bar
pressure for satisfactory operation			TD!	52MA	and	MLCA		0.8 bar

Designed for a maximum cold hydraulic test pressure of 95 bar g





Anti-air-binding disc

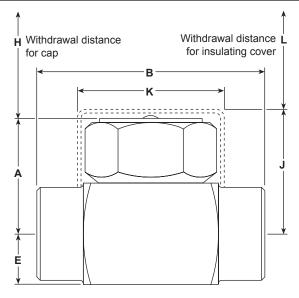
Materials

No.	Part	Material	
1	Body	Stainless steel	AISI 420 F
2	Сар	Stainless steel	AISI 416
3	Disc	Stainless steel	BS 1449 420 S45
4	Insulating cover (optional extra)	Aluminium	BS 1470 SIC M

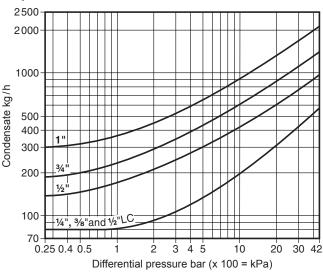
spirax /sarco

Dimensions/weights (approximate) in mm and kg

Size	Α	В	Е	Н	J	K	L	Weight
1/4"	37	54	13	41	53	57	38	0.45
3/8"	37	54	13	41	53	57	38	0.43
½" LC	38	65	15	41	55	57	38	0.47
1/2"	39	70	15	41	55	57	38	0.60
3/4"	43	80	20	41	59	57	38	0.90
1"	51	89	23	41	-	-	-	1.40



Capacities



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P068-31) supplied with the product.

Installation note:

Preferably fitted in a horizontal pipe but can be fitted in other positions.

How to order

Example: 1 off Spirax Sarco ½" TD52MLC thermodynamic steam trap having screwed BSP connections.

Note: Where required the unit can be fitted with a special anti-air-binding disc but must be specified when placing an order e.g. TDM52MLCA.

Available spares

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

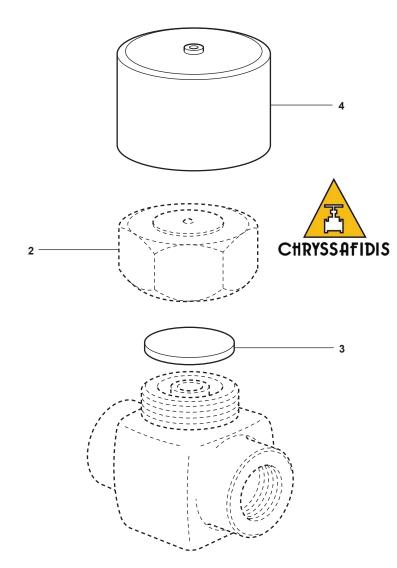
Available spares

Disc	(packet of 3)	3
Insulating cover	(Not 1" size)	4

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 - Packet of 3 discs for a Spirax Sarco ½" TD52MLC thermodynamic steam trap.



Recommended tightening torques

Item	Part	or mn	1	N m
	1/4"	36 A/F		180 - 200
	3/8"	36 A/F		180 - 200
2	1/2"	36 A/F		180 - 200
	3/4"	41 A/F		180 - 200
	1"	55 A/F		250 - 275