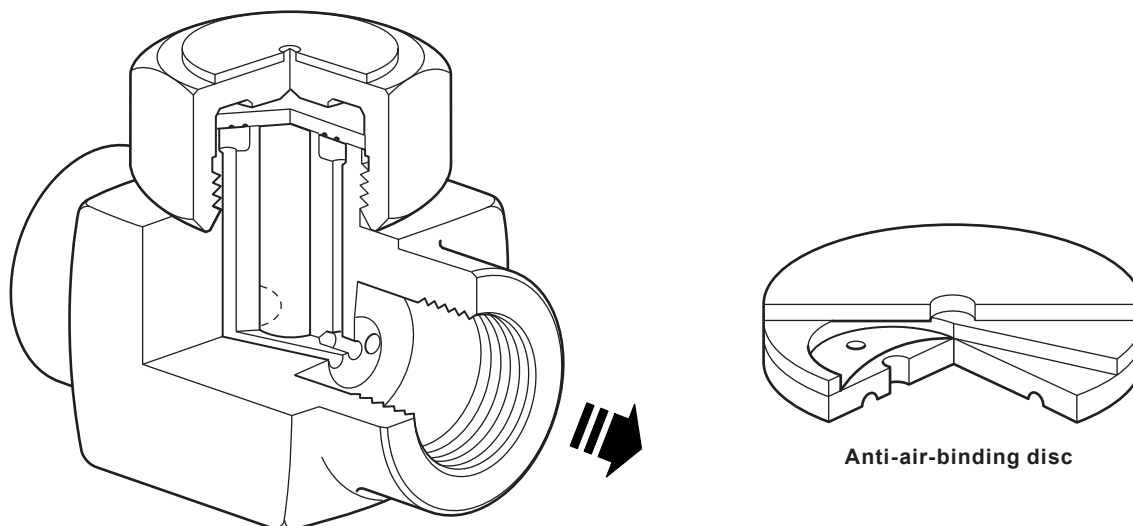




TD52M, TD52MLC, TD52MA and TD52MLCA Thermodynamic Steam Traps



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, 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.

Standards

These products fully comply with the requirements of the European Pressure Equipment Directive 2014/68/EU.

Certification

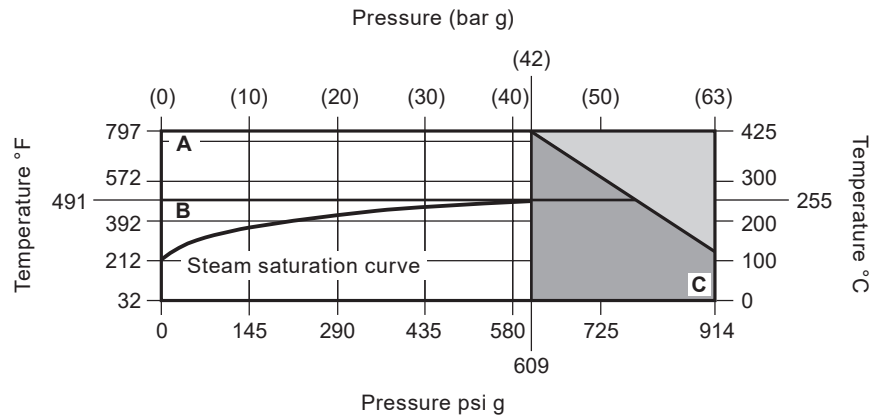
These products are available with certification to EN 10204 3.1.

Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

Screwed BSP T Rp (ISO 7-1) or NPT	TD52M and TD52MA	1/4" 3/8", 1/2", 3/4" and 1"
	TD52MLC and TD52MLCA	1/2"

Pressure/temperature limits



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

For optimum product performance the PMO should not exceed 609 psi g (42 bar g).

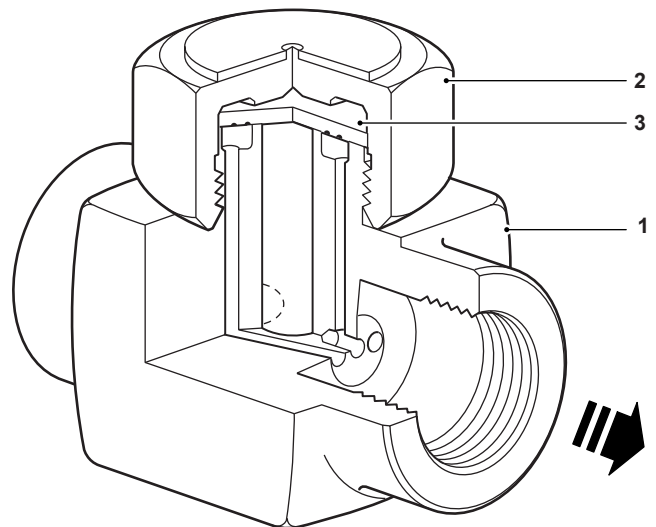
A - C TD52M and TD52MLC

A - C TD52MA and TD52MLCA

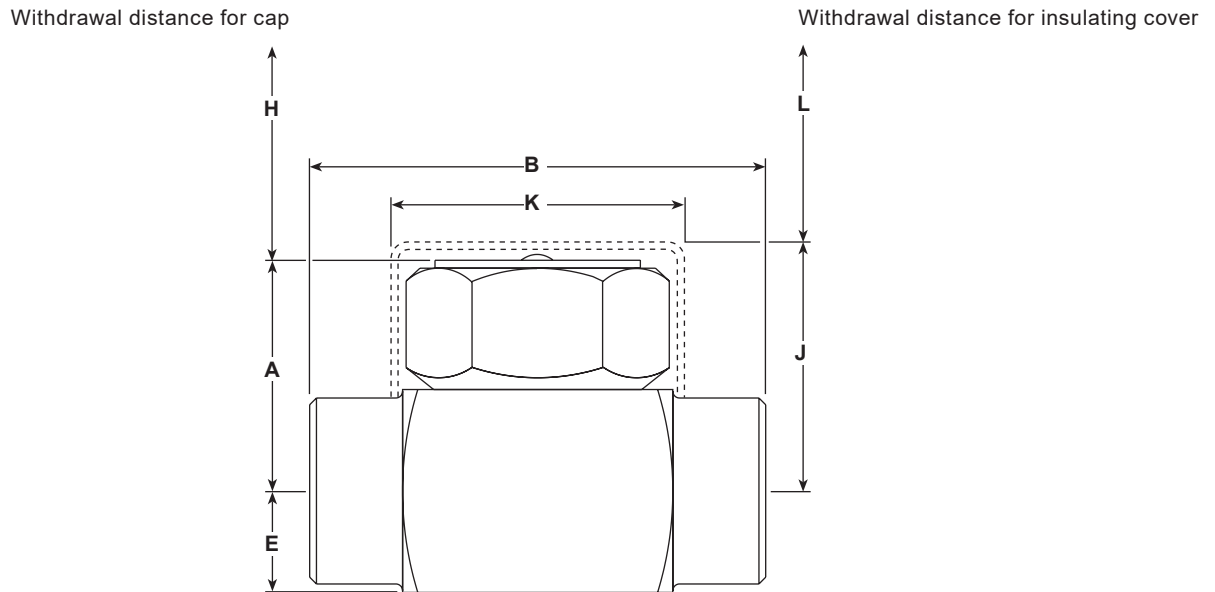
Body design conditions	PN63	
PMA Maximum allowable pressure	914 psi g @ 248 °F (63 bar g @ 120 °C)	
TMA Maximum allowable temperature	797 °F @ 609 psi g (425 °C @ 42 bar g)	
Minimum allowable temperature	32 °F (0 °C)	
PMO Maximum operating pressure for saturated steam service	609 psi g (42 bar g)	
TMO Maximum operating temperature	TD52M and MLC	797 °F @ 609 psi g (425 °C @ 42 bar g)
	TD52MA and MLCA	491 °F @ 609 psi g (255 °C @ 42 bar g)
Minimum operating temperature	32 °F (0 °C)	
PMOB Maximum operating backpressure must not exceed 80% of the upstream pressure		
Minimum operating differential pressure for satisfactory operation	TD52M and MLC	3.63 psi g (0.25 bar g)
	TD52MA and MLCA	
Designed for a maximum cold hydraulic test pressure of	1378 psi g (95 bar g)	

Materials

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

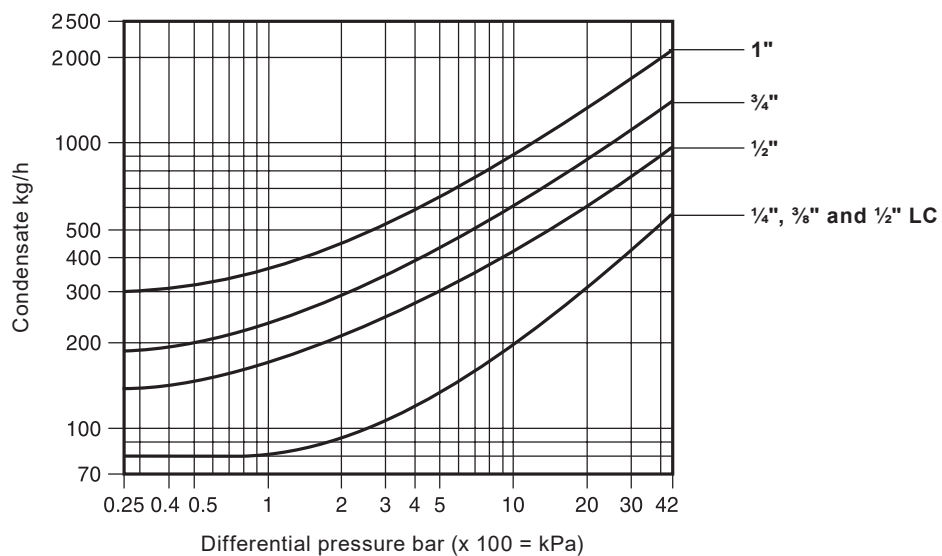


Dimensions/weights (approximate) in inches (mm) and lb (kg)



Size	A	B	E	H	J	K	L	Weight
¼"	1.45 (37)	2.13 (54)	0.51 (13)	1.61 (41)	2.09 (53)	2.24 (57)	1.50 (38)	1.00 (0.45)
⅜"	1.45 (37)	2.13 (54)	0.50 (13)	1.61 (41)	2.09 (53)	2.24 (57)	1.50 (38)	0.95 (0.43)
½" LC	1.50 (38)	2.56 (65)	0.59 (15)	1.61 (41)	2.17 (55)	2.24 (57)	1.50 (38)	1.04 (0.47)
½"	1.54 (39)	2.76 (70)	0.59 (15)	1.61 (41)	2.17 (55)	2.24 (57)	1.50 (38)	1.32 (0.60)
¾"	1.69 (43)	3.15 (80)	0.79 (20)	1.61 (41)	2.32 (59)	2.24 (57)	1.50 (38)	1.98 (0.90)
1"	2.01 (51)	3.50 (89)	0.91 (23)	1.61 (41)	-	-	-	3.09 (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 a grey line are not supplied as spares.

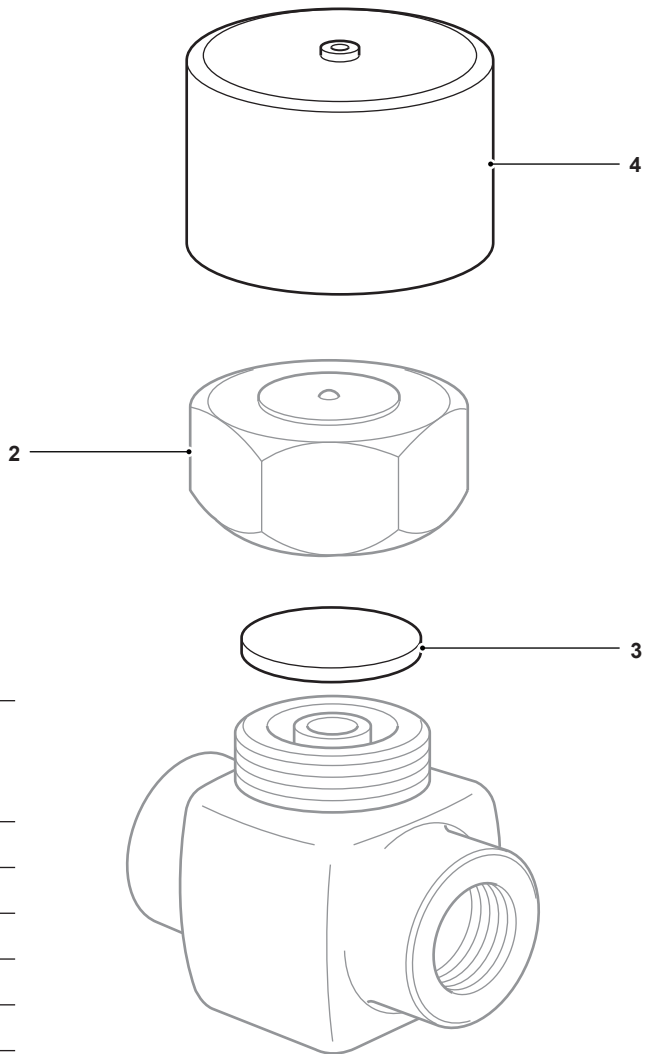
Available spares

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 	N m
2	¼"	36 A/F	180 - 200
	⅜"	36 A/F	180 - 200
	½"	36 A/F	180 - 200
	¾"	41 A/F	180 - 200
	1"	55 A/F	250 - 275