ΘΕΡΜΟΣΤΑΤΙΚΕΣ ΑΤΜΟΠΑΓΙΔΕΣ ΕΞΙΣΟΡΡΟΠΙΣΗΣ



TI-P125-08 ST Issue 8

MST21 **Stainless Steel**

spirax /sarco



Balanced Pressure Thermostatic Steam Trap

Description

The MST21 is a maintainable balanced pressure thermostatic steam trap designed for relatively small condensate loads usually associated with instrument tracing applications. It is manufactured in stainless steel and is corrosion resistant and easily maintainable.

Available types

MST21	Standard	capacity	for tracing	loads	(standard unit)
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MST21H High capacity for special applications

Note: When placing an order always state the capsule fill.

Capsule fill and operation

Standard capsules are marked with the letter 'STD' for operation at approximately 10°C below steam saturation temperature.

Optionally the capsule can be supplied for sub cooled '**SUB**' operation at approximately 22°C below steam saturation temperature or a '**NTS**' fill capsule for operation at approximately 4°C below steam saturation temperature.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

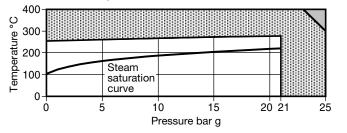
Certification

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

MST21 1/4" %" and 1/2" screwed BSP, EN ISO 228-1, or NPT. MST21H 1/2", 3/4" and 1" screwed BSP, EN ISO 228-1, or NPT.

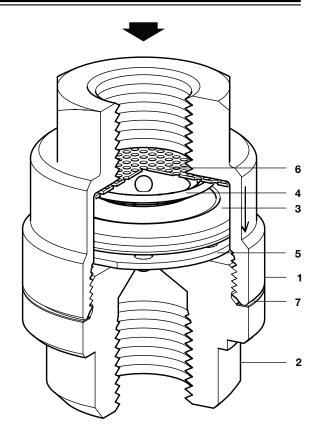
Pressure/temperature limits (ISO 6552)



The product must not be used in this region.

to internals may occur. The product should not be used in this region as damage

Body d	esign conditions	PN25		
PMA	Maximum allowable pressure	25 bar g @ 300°C		
TMA	Maximum allowable temperature	400°C @ 23 bar g		
Minimum allowable temperature				
PMO	Maximum operating pressure	21 bar g @ 270°C		
TMO	Maximum operating temperature	270°C @ 21 bar g		
Minimum operating temperature 0°C				
Designed for a maximum cold hydraulic test pressure of 38 bar g				



Materials

No	. Part	Material	
1	Body	Austenitic stainless steel (316)	ASTM A743 CF16Fa
2	Сар	Stainless steel 4	20A UGIMA AISI 420
3	Capsule	Stainless steel	
4	Spring	Stainless steel	BS 2056 302 S26
5	Spacer plate	Stainless steel	BS 1449 304 S15
6	Strainer screen (0.8 mm perforations)	Stainless steel	ASTM A240 316L
7	Gasket	Stainless steel	BS 1449 304 S15

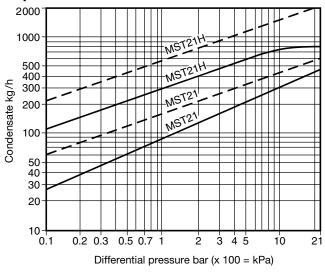
Note: Material grades shown in brackets are nearest equivalents.

Local regulations may restrict the use of this product to below the conditions guoted. In the interests of development and improvement of the product, we reserve the right to change the specification without notice.

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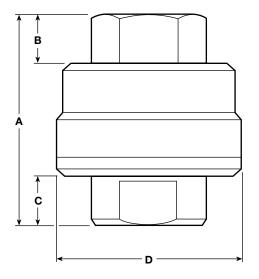
Capacities



Cold water capacity - - - - Hot water capacity

Dimensions/weights (approximate) in mm and kg

		•		•	-
Size	Α	В	С	D	Weight
1⁄4"	50.5	8.5	10	45	0.34
1⁄2"	61.0	12.5	14	45	0.48
3⁄8"	68.0	14.0	14	45	0.48
3⁄4"	68.0	14.0	14	45	0.48
1"	75.0	14.0	14	45	0.48



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P125-07) supplied with the product.

Installation note:

The MST21 is designed for installation with the capsule in a vertical line with the inlet at the top and the outlet at the bottom. This will ensure it is self-draining. If fitted in a horizontal line the trap should be proceded by a short drop-leg.

Caution:

The body/cover gasket contains a thin stainless steel support ring, which may cause physical injury if it is not handled and disposed of carefullv.

Disposal:

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 1/4" MST21 balanced pressure thermostatic steam trap having a 'STD' fill capsule for operation approximately at 10°C below steam saturation temperature. The connections are to be screwed NPT.

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

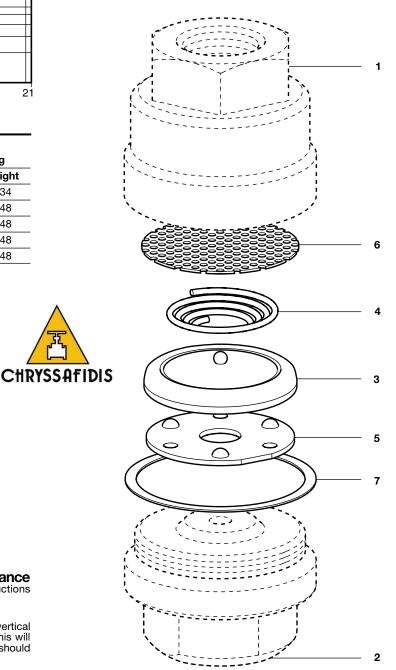
Available spares

Internals set for MST21	3, 4, 5, 6, 7

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size, model number and capsule reference.

Example: 1 off Internals set for a Spirax Sarco 1/4" MST21 balanced pressure thermostatic steam trap having a 'STD' fill capsule for operation at 10°C below steam saturation temperature.



Recommended tightening torques

Item	Size	\bigcirc	or mm	N m
1 and 2	1⁄4"	22		100 - 110
	1⁄2"	32		100 - 110
	³ ⁄8"	32		100 - 110
	3⁄4"	36		100 - 110
	1"	41		100 - 110
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