spirax Sarco

Balanced Pressure Thermo-Matic[®] Steam Trap TM600, TM600L, TM600N

600 psig(41 barg) Saturated Steam

The trap contains a calibrated element module which is self-adjusting so that condensate is discharged within 10°F of saturated steam temperature over the full operating pressure range. The solid fill bellows can withstand pressure surges and waterhammer, and a patented heat sink protects the bellows from over-expansion should the steam pressure suddenly be reduced. The integral downstream flash chamber reduces discharge velocity to provide smooth discharge of high condensate loads.

Model	TM600	TM600L	TM600N
РМО	600 psig		
Sizes	1/2" & 3/4"		
Connections	NPT		
Construction	Ductile iron body Carbon Steel bo		Carbon Steel body
	stainless steel internals		
Options	BSP Connections		
			SW or flanged to MIL-T-960, Type II

Typical Applications

High-pressure steam main drips, high-pressure process equipment, outdoor installations subject to freezing.

TM600L*

Limiting Operating Conditions

Max. Operating Pressure (PMO)	
Max. Operating Temperature	
Temperature	

Pressure Shell Design Conditions

PMA Max. allowable pressure	600 psig/up to 650°F	41 barg/up to 343℃
TMA Max. allowable temperature	650°F/0-600 psig	343℃/0-41 barg

Construction Materials

No.	Part	Material	
1	Cover TM600	Ductile Iron	ASTM A395
		TM600N	ASTM A216 G2 WCB
1A	Cover Gasket	Spiral Wound Stainless Steel, Graphite Filled	AISI 304 strip
2	Body TM600	Ductile Iron	ASTM A395
		TM600N	ASTM A216 G2 WCB
ЗA	Support Plate	Stainless Steel	AISI 304
3C	Valve Head	Hardened Stainless Steel	
		TM 600 (Cone Head)	AISI 420F
		TM 600L (Ball Head)	AISI 440
3D	Valve Seat	Hardened Stainless Steel	AISI 420F
3E	Valve Seat Gasket	Spiral Wound Stainless Steel, Graphite Filled	AISI 304 strip
4	Baffle	Stainless Steel	AISI 302
5	Cover Screws	Steel	ASTM A 449, Type 1



Capacities



Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interests of development and improvement of the product, we reserve the right to change the specification.

Balanced Pressure Thermo-Matic[®] Steam Trap TM600, TM600L, TM600N

TM600 TM600L

SPARE PARTS*

Steam Traps

Balancec

Sample Specification

(27mm

Weight -

91/4 lbs.(4.2kg)

Steam trap shall be Spirax Sarco type TM600 Thermo-Matic[®], self-adjusting for operating pressures to 600 psig. The traps shall incorporate a flash chamber to reduce discharge velocity. Thermostatic elements shall be factory calibrated and shall have a heat sink to prevent over-expansion. Traps shall be non-freezing, and shall have a choice of top or side inlet (TM600 & TM600L) or traps shall have horizontal in-line connectionss (TM600N). Body and cap shall be ductile iron (TM600 & TM600L) or carbon steel (TM600N).

S.W. 41/4" (108mm)

SCR. 51/4" (133mm)

Installation

A pipeline strainer should be installed ahead of any steam trap to protect the head and seat from dirt and scale. Full-flow isolating valves should be placed to permit servicing. The trap should be installed below the equipment with a collecting leg before the trap. For best operation, the bellows should be in a horizontal position as shown. For a freeze-resistant installation, the inlet piping must be pitched toward the trap for gravity flow, and the trap must discharge to atmosphere or drain.

Maintenance

This product can be maintained, unless installed vertically using the alternate inlet, without disturbing the inlet piping connections. Complete isolation of the trap from both supply and return line is required before any servicing is performed. The trap should be disassembled periodically for inspection and cleaning of the valve head and seat, and cleaning of the strainer screen (TM600N only).

Worn or damaged parts should be replaced using a complete Element Set.

Complete installation and maintenance instructions are given in IMI 2.004, which accompanies the product.



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