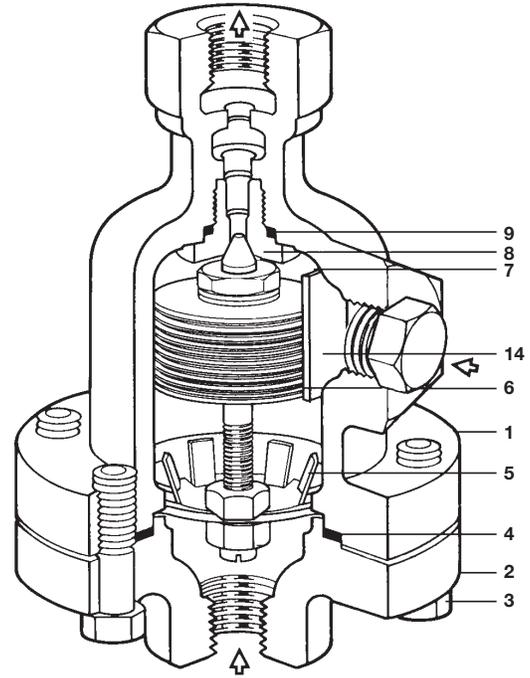


# spirax sarco

## Thermo-matic Air Vent TM600, TM600L

The TM600 and TM600L air vents are designed for use on steam systems to remove air and other non-condensable gases, which may impair heat transfer during start-up and normal operation. The TM600 and TM600L are identical except for the valve head and seat.

<b>Model</b>	<b>TM600 TM600L</b>
<b>PMO</b>	600 psig
<b>Sizes</b>	1/2", 3/4"
<b>Connections</b>	NPT
<b>Construction</b>	Ductile Iron Body with Stainless Steel Internals
<b>Options</b>	BSP Connections



### Limiting Operating Conditions

**Max. Operating Pressure (PMO)** 600 psig (41 barg)

**Max. Operating Temperature** 489°F (254°C)

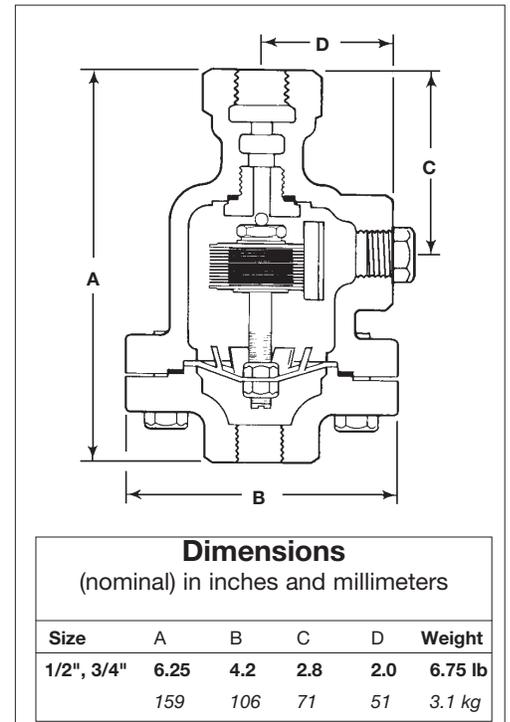
### Pressure Shell Design Conditions

**PMA** 600 psig/up to 650°F 41 barg/up to 343°C  
Max. allowable pressure

**TMA** 650°F/0-600 psig 343°C/0-41 barg  
Max. allowable temperature

### Construction Materials

No.	Part	Material	
1	Body	Ductile Iron	ASTM A395
2	Cover	Ductile Iron	ASTM A395
3	Cover Screws	Steel	ASTM A 449 Type 1
4	Cover Gasket	Spiral Wound Stainless Steel Graphite Filled	
5	Support Plate	Stainless Steel	
6	Element Assembly	Stainless Steel	
7	Valve Head	Stainless Steel Hardened	
8	Valve Seat	Stainless Steel	
9	Valve Seat Gasket	Spiral Wound Stainless Steel Graphite Filled	
14	Baffle	Stainless Steel	



### Typical Applications

For installation at end of all steam mains and headers, on all steam equipment such as air coils, heat exchangers, autoclaves, sterilizers, platen presses, rotating cylinders, jacketed kettles, laundry equipment and reboilers.

*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.*

**TI-4-106-US 4.12**

# Thermo-matic Air Vent TM600, TM600L

## Air Capacity (discharge to atmosphere)

SCFM cubic feet per minute at standard conditions of 14.7 psia at 60°F. For dm<sup>3</sup>/s multiply by .4719.

Type	Inlet Pressure												
	psi bar	10	25	50	100	125	150	200	250	300	400	500	600
TM600L		5.9	9.7	16	28	34	40	52	63	75	100	125	149
TM600		19	31	50	89	108	127	165	200	240	320	400	475

Orifice Size:

TM600L = .149"

TM600 = .258"

## Sample Specification

Air Vents shall be installed at the end of all steam mains and headers, and on large equipment steam spaces to facilitate start-up and heat transfer. They shall be self-adjusting balanced pressure thermostatic type with solidly filled element made of stainless steel. Head shall be hardened and both head and seat shall be stainless steel. Body and bolted cap shall be ductile iron and internals shall be renewable.

## Installation

The air vent should be positioned at a high point of the piping system or equipment, or where the air collects. The discharge can be hot and wet; the outlet should therefore be piped to a safe place. An isolation valve should be fitted upstream of the air vent.

## Maintenance

This product can be maintained without disturbing the inlet piping connections. Complete isolation is required before any servicing is performed.

The air vent should be disassembled periodically for inspection and cleaning of the valve head and seat. Worn or damaged parts should be replaced using a complete element set.

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

