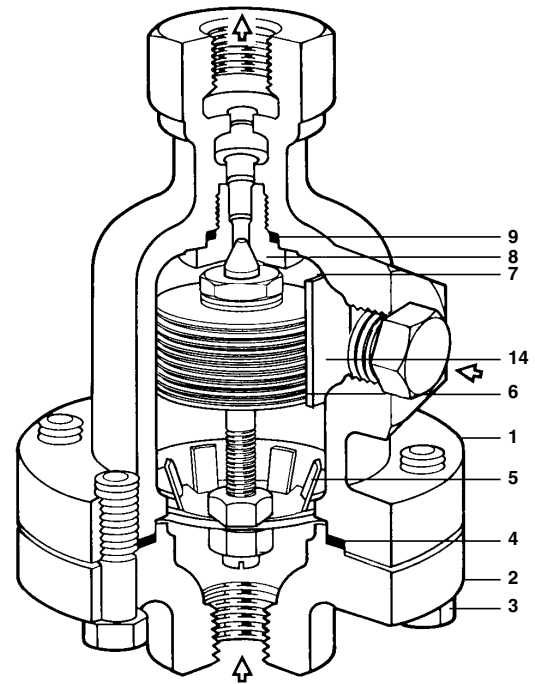


spirax/sarco®

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.

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

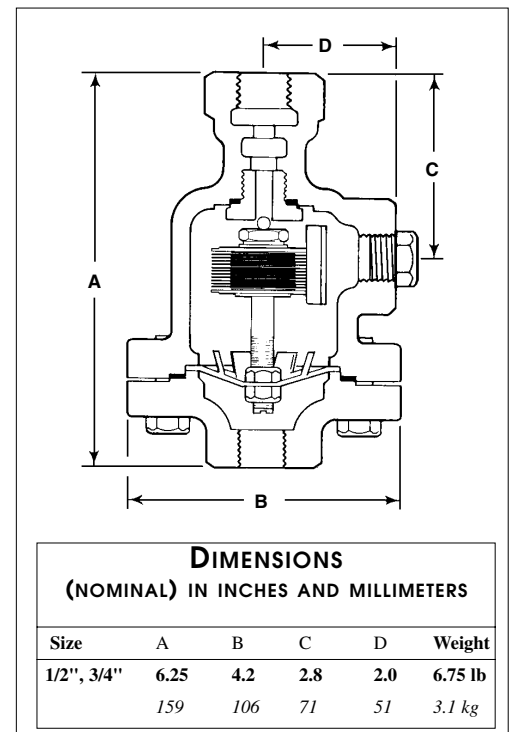
TMA 650°F/0-600 psig 343°C/0-41 barg
Max. allowable temperature

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 3/8" - 16 x 1-1/4"
4	Cover Gasket	Spiral Wound Stainless Steel Graphite Filled	AISI 304
5	Support Plate	Stainless Steel	AISI 304
6	Element Assembly	Stainless Steel	AISI 304 & Custom 450
7	Valve Head	Stainless Steel	TM600L AISI 440 Hardened TM600 AISI 420 F
8	Valve Seat	Stainless Steel	AISI 420 F Hardened
9	Valve Seat Gasket	Spiral Wound Stainless Steel Graphite Filled	AISI 304
14	Baffle	Stainless Steel	AISI 302

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.

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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 dm³/s multiply by .4719.

Type	psi bar	Inlet Pressure											
		10	25	50	100	125	150	200	250	300	400	500	600
		.68	1.7	3.4	6.9	8.6	10.3	13.8	17.2	20.7	27.6	34.5	41.4
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

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.

