TAV SERIES THERMOSTATIC AIR VENT

Pressures To 650 PSIG (44.8 barg) Temperatures to 750°F (400°C)

Sealed Stainless Steel Body - Lightweight, compact and corrosion resistant. No bolts or gaskets. Eliminates body leaks.

Self Centering Valve - Leak tight shutoff. Improved energy savings. Assembly of actuator and valve to impingement plate allows valve to self-align with center of valve seat orifice. Provides long lasting valve and seat.

Temperature Sensitive Actuators - One moving part. Stainless Steel, fail open, welded actuator for maximum corrosion, thermal and hydraulic shock resistance.

Thermal and Hydraulic Shock Resistant - Impingement plate plus welded construction prevent damage to actuator.

Hardened Stainless Steel Valve and Seat - Long life. Lapped as a matched set for steam tight seal.

Inexpensive - Low initial cost.

Maintenance Free - Sealed unit. Replacement traps cost less than repair of more expensive in-line repairable vents.

Directional Discharge - Pipe thread erosion prevented by directing discharge to center of pipe.

Guaranteed - Guaranteed for 3 years against defects in materials or workmanship.

Applications_

- Platen Presses
- Plating Tanks
- Sterilizers
- Tire Presses
- Cooking Equipment
- Laundry Equipment
- Other Process Equipment

Canadian Registration # OE0591.9C



MODELS

■ TAV-High capacity w/welded SS actuator

Operation _

Thermal actuator is filled at it's free length with a liquid having a lower boiling point than water. As assembled, valve is normally open. On startup, air passes through vent. As air is eliminated, hot steam reaches vent and the thermal actuator fill vaporizes to a pressure higher than line pressure. This forces

valve into seat orifice to prevent any further flow. Should more air collect, it takes heat from the actuator, lowering internal pressure. Line pressure will then compress thermal actuator to open valve and discharge air. Valve lift automatically adjusts to variations.

TAV SERIES

THERMOSTATIC AIR VENTER

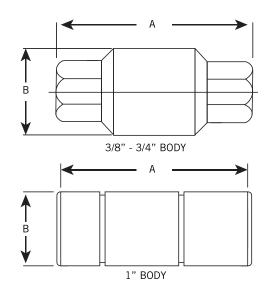
SPECIFICATION

Air vent shall be of balanced pressure design stainless steel welded actuator capable of discharging air within 35°F of saturated temperature. Thermostatic actuator shall employ a conical valve lapped in matched sets with the seat ring assuring tight shut off. Vent shall be stainless steel bodied suitable for pressures to 650 psig and available in 3/8" through 1" NPT or socketweld.

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PMO: Max. Operating Pressure	650 psig	(44.8 barg)
TMO: Max. Operating Temperature	650°F	343°C)
PMA: Max. Allowable Pressure	650 psig	(44.8 barg)
TMA: Max. Allowable Temperature	750°F	(400°C)

Dimensions									
NPT or Socket	inches	- Weight Lbs. (kg)							
weld	Α	В	weight Lbs. (kg)						
3/8", 1/2"	3¾ (95)	1¾ (44)	1.1 (0.5)						
3/4"	3 ¹⁵ / ₁₆ (100)	1¾ (44)	1.2 (0.54)						
1"	4¾ (111)	1¾ (44)	1.6 (0.73)						



Connections: 3/8" - 1" NPT or socketweld

Materials of construction	
Body & Cover:	. ASTM A351 Grade CF3M (316L)
	1" is 316SS, ASME SA479
Actuator:	. Welded Stainless Steel

Valve & Seat: Hardened 416 Stainless Steel

	Air Capacity—SCFM for 14.7 PSIA @ 60°F (dm³/s)															
	Orifice	Inlet Pressure (barg)														
Vent	Inches	10	50	100	125	150	200	250	300	350	400	450	500	550	600	650
	(mm)	(0.7)	(3.5)	(6.9)	(8.62)	(10.3)	(13.8)	(17.2)	(20.7)	(24.1)	(27.6)	(31.0)	(34.5)	(37.9)	(41.4)	(44.8)
TAV	5/16	33	34	156	192	230	300	370	440	510	580	650	720	790	860	930
	(8)	(16)	(20)	(74)	(91)	(109)	(142)	(175)	(208)	(241)	(274)	(307)	(340)	(373)	(406)	(439)