TV-2 THERMOSTATIC AIR VENTS

Pressures to 125 psig (9 Bar)

TV-2
For venting air from steam in chamber type heat exchangers.

Positive Venting of Air

Armstrong offers the Model TV-2 Balanced Pressure Thermostatic Air Vent for positive venting of air from chamber type heat transfer equipment with no loss of steam. Typical applications include jacketed kettles, retorts, vulcanizers, jacketed sterilizers or other contained equipment where air could accumulate at the top of the steam chamber and reduce heat transfer capacity.

The Model TV-2 is a balanced pressure thermostatic air vent that responds to the pressure-temperature curve of steam at any pressure from light vacuum to maximum operating pressure. Air is automatically vented at slightly below steam temperature throughout the entire operating pressure range.

The thermostatic element is a charged multi-convolution phosphor bronze bellows caged in stainless steel. Valve and seat are also stainless steel designed to meet the most rigid cycling specifications known for this type of service.

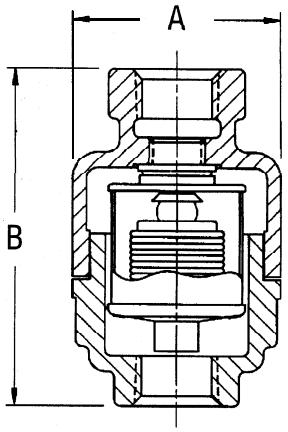
- Stainless steel hemispherical valve and seat.
- Thermostatic element comprises a multi-convolution phosphor bronze bellows caged in stainless steel.
- Thermostatic element is charged with water to provide positive opening of the valve at slightly below steam temperature and positive closing in the presence of steam throughout the operating pressure range.
- ASTM B-62 cast bronze body.

For more information on Model TV-2 Thermostatic Air Vents or other Armstrong products, contact your local Armstrong Representative.

Armstrong

Physical Data

Pipe Connections	⅜", ½"	10 mm, 15 mm
"A" Diameter	2 3/16"	55.5 mm
"B" Height	3 1/2	88.9 mm
Weight	1 lb. 9 oz	0.8 kg
Maximum Operating Pressure	125 psig	9 Bar



Armstrong Model TV-2 Thermostatic Air Vents should be installed at the highest points of steam chambers with inlet connections to the vents higher than the highest points of the chambers. Thus installed there is a minimum hazard of any liquid carryover and air can be vented to atmosphere with no drain line necessary.

Typical Installations

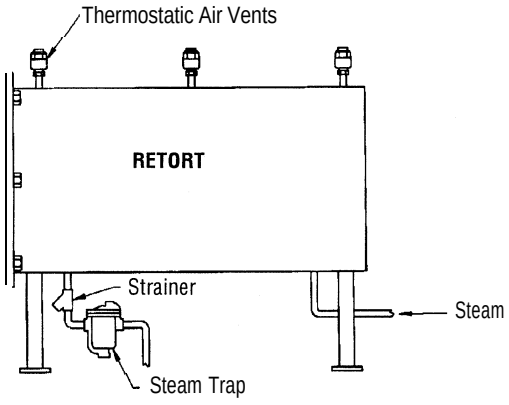


Fig. 2-1. Installation on a retort.

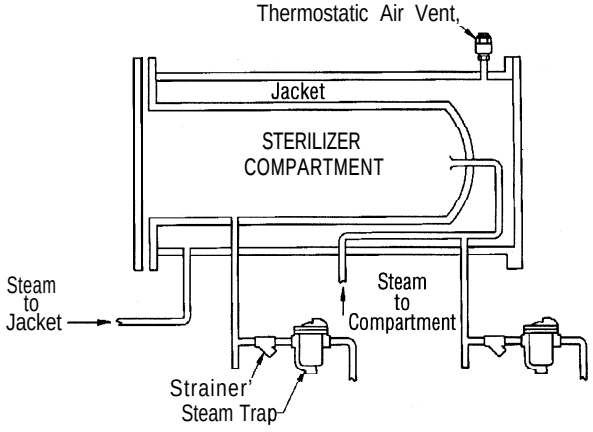


Fig. 2-2. Installation on a sterilizer.

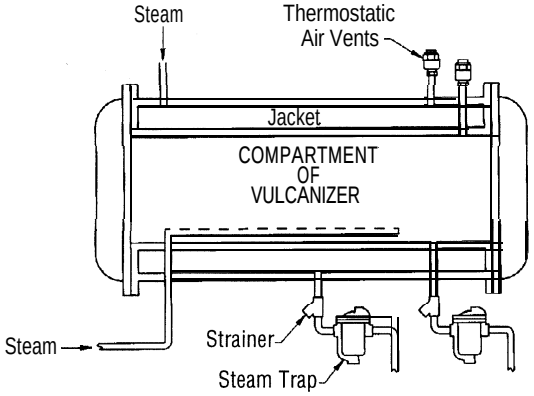


Fig. 2-3. Installation on a vulcanizer.

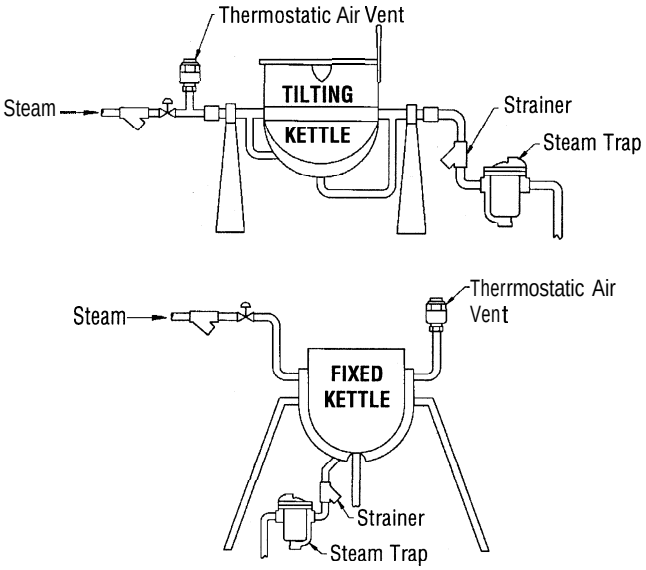


Fig. 2-4. Installation on jacketed kettles.

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