



Installation and Maintenance

Armstrong Series TAVB Thermostatic Air Vent / Vacuum Breaker

This bulletin should be used by experienced personnel as a guide to the installation of TAVB thermostatic air vents / vacuum breaker. Selection or installation of equipment should always be accompanied by competent technical assistance. We encourage you to contact Armstrong or its local representative if further information is required.

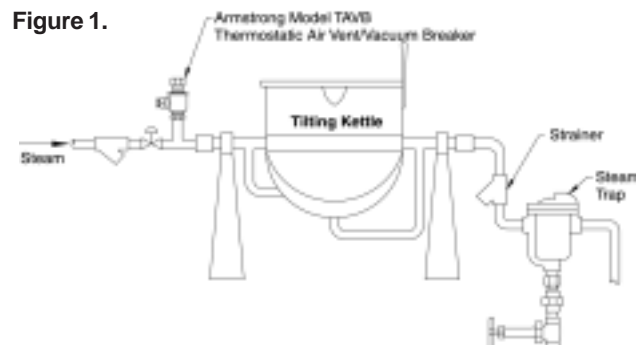
Using Series TAVB Thermostatic Vents to Remove Air From Steam in Chamber Type Heat Exchangers.

Suitable for pressures from 0 to 150 psig.

NOTE: FLOW arrows on the vent label must correspond with the flow of the vented air.

The combination of the thermostatic air vent and vacuum breaker into one unit allows for easy installation of both devices critical to proper operation of process and heating units.

Figure 1 shows a Series TAVB vent installed as an air vent for a stationary cooking kettle. Any air accumulating in the steam inlet will be automatically vented at slightly below steam temperature throughout the entire operating pressure range. The vacuum breaker opens at the end of each cycle allowing rapid drainage to the trap of any remaining condensate.



Series TAVB vents may also be used to vent air from steam chambers, coils and air handlers into the atmosphere. In these applications, the vent should be installed at the highest point of the steam chamber. Thus installed, there is a minimum hazard of any liquid carry over and air can be vented to atmosphere with no drain line necessary. Figures 2, 3, 4, 5 and 6 show typical installation.

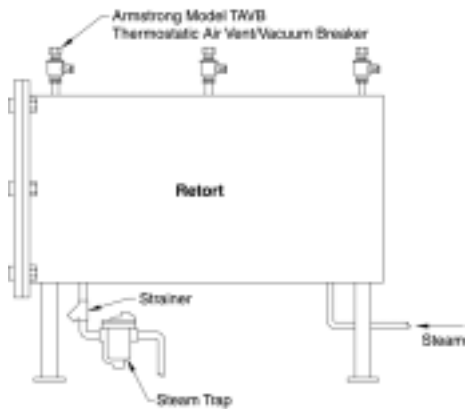


Figure 2. Installation on a retort.

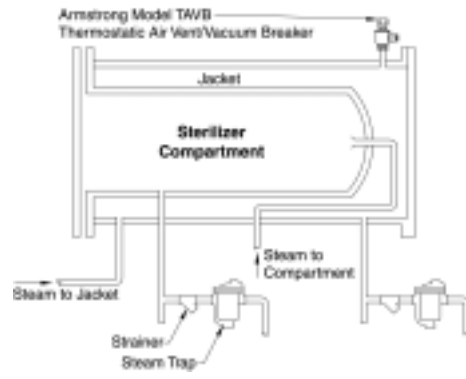


Figure 3. Installation on a sterilizer.

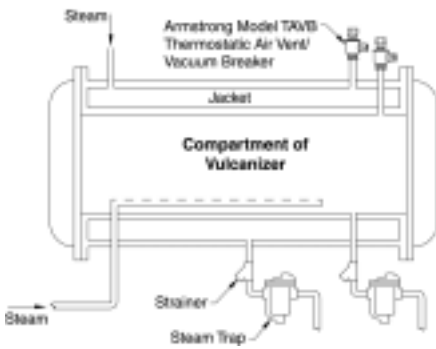


Figure 4. Installation on a vulcanizer.

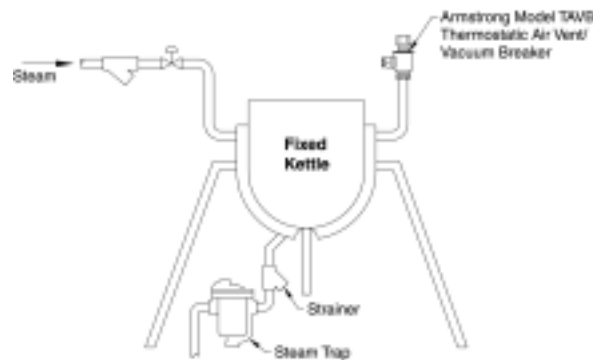


Figure 5. Installation on jacketed Kettles.

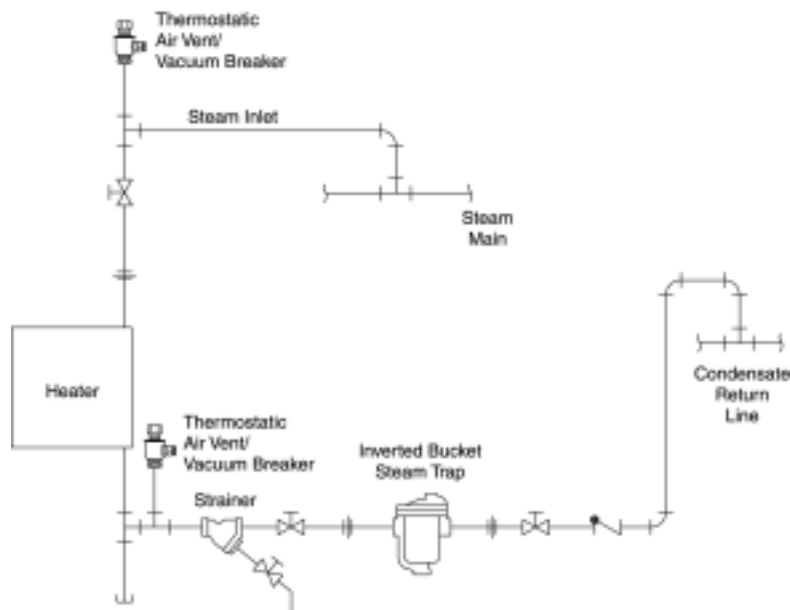


Figure 6. Installation on a unit heater.