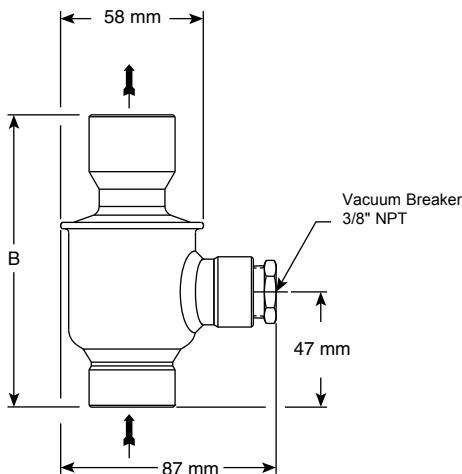


# Stainless Steel Thermostatic Air Vent/Vacuum Breaker

For Pressures to 10 bar...Capacities to 93 m<sup>3</sup>/h



The Armstrong TAVB is a combination thermostatic air vent/vacuum breaker that is ideally suited for steam-filled vessels with modulating controls. The TAVB will vent air and other non-condensables from vessels such as shell and tube heat exchangers, jacketed kettles and steam coils during their operation. It will also break the vacuum that forms during steam control modulation.

This balanced pressure air vent responds to the pressure-temperature curve of steam, and the soft-seated vacuum breaker responds to 0,0051 bar of vacuum.

## Features

- Maximum allowable pressure: 20 bar
- Maximum allowable temperature: 185°C
- Maximum working pressure: 10 bar
- All stainless steel welded construction
- NPT connections

Armstrong thermostatic air vents should be installed at the highest point on a steam chamber, with the air vent located above the chamber. This will minimize the possibility of any liquid carryover, and air can be vented to atmosphere without a drain line.

Table AV-349-1. TAVB Physical Data (dimensions in mm)

| Model No.                                  |                       | TAVB-2         | TAVB-3 |
|--|-----------------------|----------------|--------|
| Pipe Connections                           | Thermostatic Air Vent | 15             | 20     |
|  | Vacuum Breaker        | 3/8"           | 3/8"   |
| "A" (Diameter)                             |                       | 57             | 57     |
| "B" (Height)                               |                       | 117            | 119    |
| "C" (Ø Inlet to Face of Vacuum Breaker)    |                       | 54             | 54     |
| Weight lb (kg)                             |                       | 0,45           | 0,57   |
| Maximum Allowable Pressure (Vessel Design) |                       | 20 bar @ 185°C |        |
| Maximum Operating Pressure                 |                       | 10 bar         |        |
| Discharge Orifice Size                     |                       | 3/16"          |        |

Table AV-349-2. TAVB List of Materials

| Name of Part                            | Material  |
|---|---|
| Body                                    | 304L Stainless Steel  |
| Connections                             | 304 Stainless Steel   |
| Balanced Pressure Thermostatic Air Vent | Stainless steel and bronze with phosphor-bronze bellows, entire unit caged in stainless steel |
| Gasket                                  | Copper clad non-asbestos  |
| Vacuum Breaker Body                     | 303 Stainless Steel   |
| Valve                                   | Stainless Steel   |
| Spring                                  | 302 Stainless Steel   |
| «O» Ring                                | EPDM  |
| Screen                                  | Stainless Steel   |

All sizes comply with the article 3.3 of the PED (97/23/EC).

**All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.**