



# Installation and Maintenance

## Armstrong B7131 Pneumatic Temperature Switch For use with Armstrong Pneumatically Operated Steam Humidifiers

This bulletin should be used by experienced personnel as a guide to the installation of the Part No. B7131 Pneumatic Temperature Switch. **Note:** The B7131 Pneumatic Temperature Switch is compatible with standard plant steam and steam created from deionized or reverse osmosis water.

The operation of Part No. B7131 is comparable to obsolete Part Numbers A5503, B2600A, B6056 and B6057. Please note: No stainless steel thermal well is required when using the B7131 Pneumatic Temperature Switch, as previously used in obsolete Part Number B2600A.

Selection or installation of equipment should always be accompanied by competent technical assistance. You are encouraged to contact Armstrong International, Inc. or it's local sales representative for additional information.

**Application:** The temperature switch is attached to the condensate line of a steam humidifier ahead of the steam trap. This switch prevents the pneumatic operator from opening the steam valve by dissipating the air signal until the humidifier has reached steam temperature. By delaying the opening of the valve, the temperature switch prevents the humidifier from spitting water during warm-up. When the warm-up temperature is reached, the temperature switch closes and directs the air signal to the operator, opening the valve. The temperature switch is factory calibrated for proper operation and is **not adjustable** in the field.

**Installation:** The temperature switch air bleed line is installed into a tee ahead of the pneumatic operator in the air control line. A 0.02" restrictor is required in the air control line to restrict the pneumatic signal and ensure proper operation of the temperature switch. A pipe tee must be installed ahead of the steam trap in the condensate line for insertion of the temperature switch (1/2" Tee for model 90 and 3/4" x 1/2" Tee for all other models) (Fig. 1).

If the Armstrong C-1801 pneumatic operator is used, the alternate air inlet may be used. (Fig. 2).

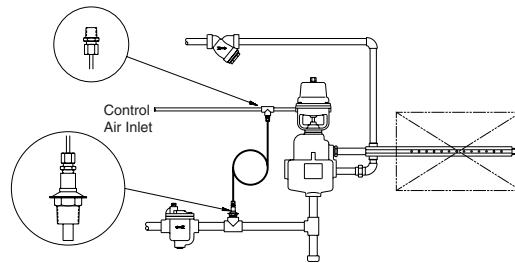


Figure 1. Temperature Switch Installation

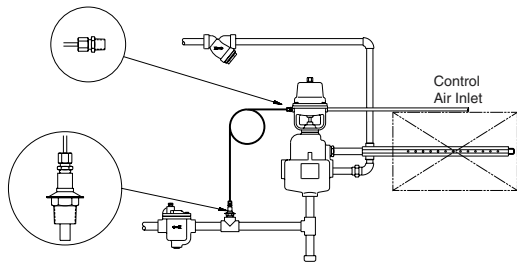


Figure 2. Alternate Inlet Installation

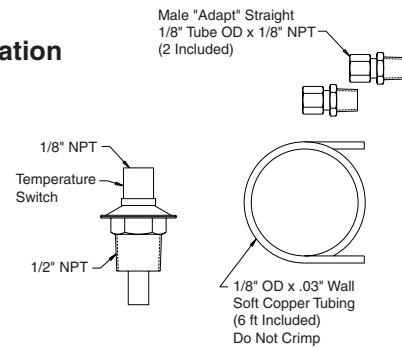


Figure 3. Included in kit