
Balanced Pressure Thermostatic Air Vent

Type T-202 $\frac{3}{8}$ " NPT Inlet $\frac{1}{4}$ " NPT Outlet

Installation and Maintenance Instructions

1. Safety information

Safe operation of these products can be guaranteed only if they are properly installed, commissioned, used and maintained by qualified personnel in compliance with the operating instructions.

General installation and safety instructions for pipeline and plant construction, as well as the proper use of tools and safety equipment must also be complied with.

2. Operation

Thermostatic steam air vents sense the temperature difference between steam and non-condensable vapors to operate a valve head.

The vent is wide open when cold providing a free access for non-condensibles and air to be removed from the system *.

These vents are self-adjusting and will work equally well at any pressure up to the maximum operating pressure of the vent.

These vents are not recommended for superheat service.

*With system operating the air vent will be closed after start up is complete.

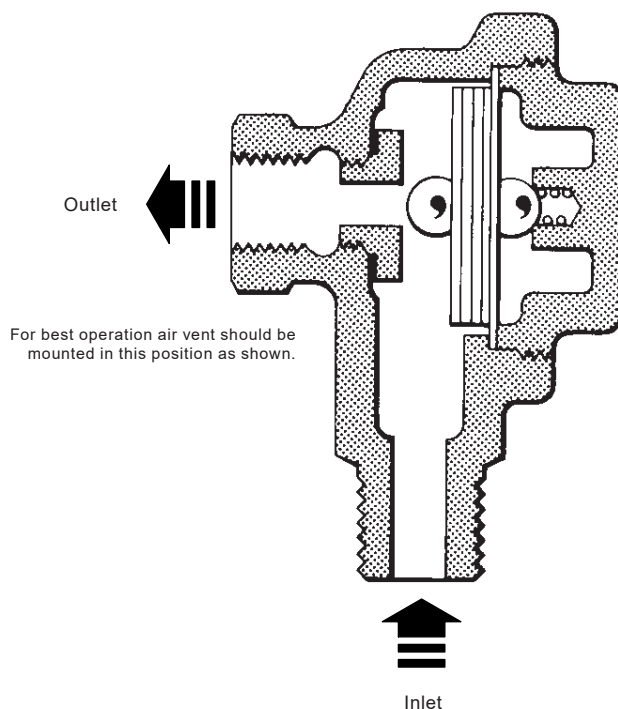
3. Installation

The air vent should be positioned at a high point of the piping system or equipment or where the air collects.

The vent must be piped in a vertical position feeding to inlet connection so only air and steam surround the thermostatic bellows.

The discharge can be hot and wet; the outlet should, therefore, be piped to a safe place.

An isolation valve should be placed on the inlet side of the vent.



4. Maintenance

This product can be maintained without disturbing the inlet piping connections.

Complete isolation is required before any servicing is performed.

The vent must be cooled down before disassembly to prevent over-expansion damage to the bellows.

The air vent should be disassembled periodically for inspection and cleaning of the valve head and seat.

Worn or damaged parts should be replaced using a complete element set.

5. Troubleshooting

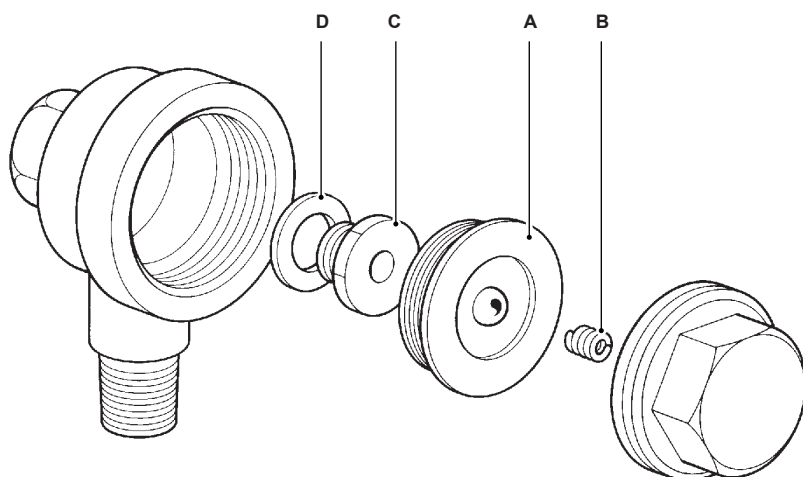
Vent leaking slightly	Check head and seat for dirt or wear.
	If worn, replace with element set.
	If only dirty, clean parts and reassemble.
Vent blowing wide open with steam	Thermostat failed.
	Replace with element set.
Vent pouring water from discharge	Check trap and drain piping.
	Vent should not see water.
	This process is flooding.
	No fault of air vent.

6. Spare parts

Element Set		A, B, C, D
Torque required	Valve seat	Vent cap
T-202	17 - 21 ft lbf	62 - 72 ft lbf

Maximum operating pressure

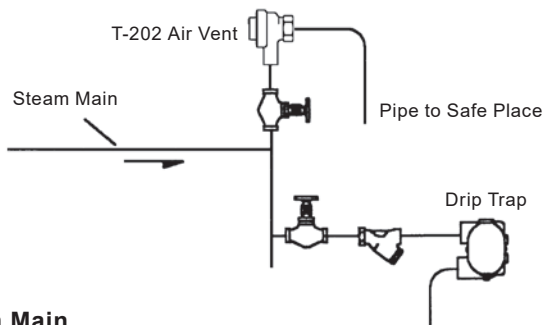
125 psi g saturated steam



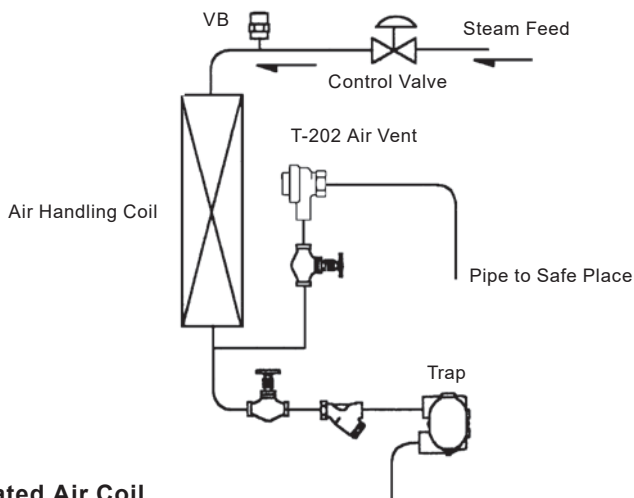
Balanced Pressure Thermostatic Air Vent Type T-202 $\frac{3}{8}$ " NPT Inlet $\frac{1}{4}$ " NPT Outlet

7. Typical hook-up for T-202 Air vents

Shown on various equipment

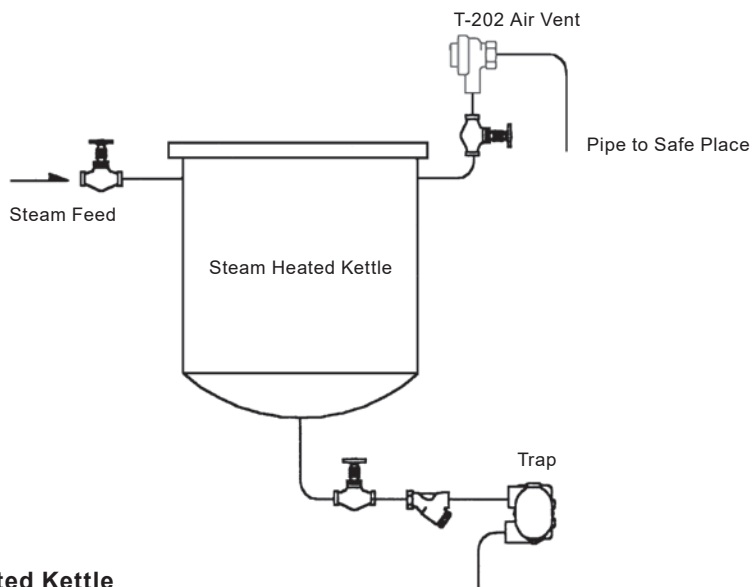


End of Steam Main

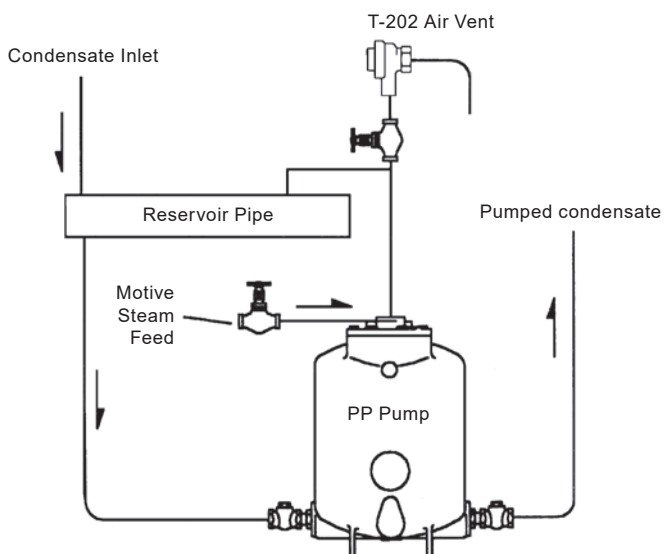


Steam Heated Air Coil

Balanced Pressure Thermostatic Air Vent Type T-202 3/8" NPT Inlet 1/4" NPT Outlet

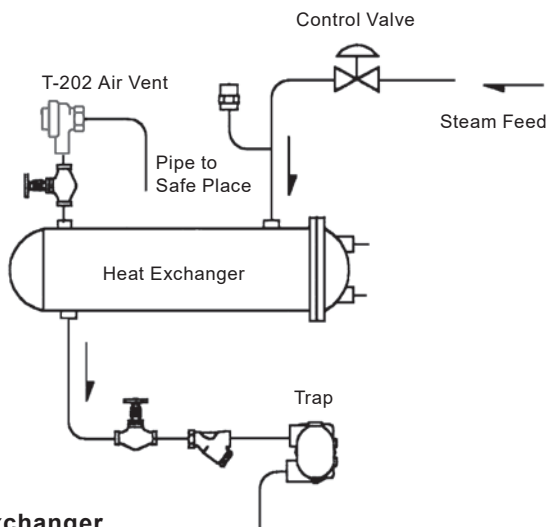


Steam Heated Kettle



Closed Loop Pump System

Balanced Pressure Thermostatic Air Vent Type T-202 3/8" NPT Inlet 1/4" NPT Outlet



Liquid Heat Exchanger

**For any additional information you may require, contact:
Spirax Sarco Applications Engineering Department
Toll Free 1-800-883-4411 Option 3**

**SPIRAX SARCO, INC.
1150 NORTHPOINT BLVD
BLYTHEWOOD, SC 29016
PHONE 1-800-883-4411**

<https://www.spiraxsarco.com/global/en-US>