

**Operating Principle**

The SM series bimetal trap operates based on two opposing forces on the valve: The system pressure that opens the valve and the temperature of the condensate acting on the bimetal element that closes the valve. During operation, the SM model does not leak steam and can automatically and quickly discharge air, non-condensable gases, and large amounts of condensate upon system startup.

**Features**

- The bimetal element responds to temperature changes of the steam and condensate to control the opening and closing of the valves. High-temperature condensate always remains before the valve, preventing steam leakage and offering superior energy-saving performance.
- It can discharge condensate below saturation temperature, reducing flash steam losses and effectively utilizing the sensible heat in the condensate.
- Valve closes under negative pressure, providing a checkfunction.
- Anti-freeze, water hammer-resistant, and durable.
- It can be installed in any orientation.
- At the start of steam flow, the valve is fully open, allowing for the rapid discharge of low-temperature condensate and air, shortening equipment startup time.
- Compact design, easy to install and maintain.

**No Air Blockages**

In low-temperature conditions, the valve remains open, allowing air and large amounts of condensate to be quickly discharged, preventing air blockage.

**High-Temperature and Corrosion-Resistant Metal Plates**

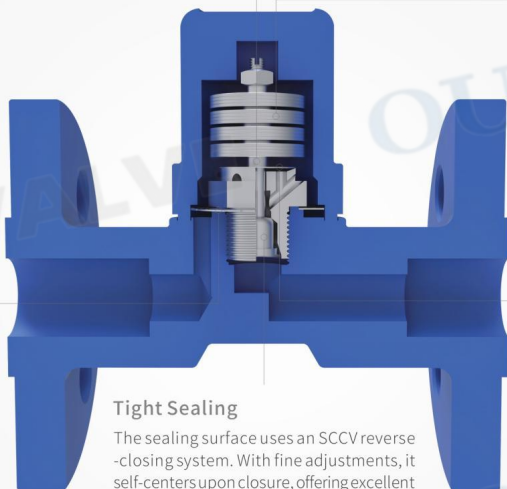
Made with German-imported bimetal plates, these components are corrosion-resistant, high-temperature-resistant, stable in operation, and have a long service life.

**Reliable operation**

All internal parts are made of stainless steel, providing resistance to corrosion and cavitation; It can be installed in any orientation; High-temperature condensate is always present before the valve, forming a reliable water seal and preventing steam leakage.

**Filtering Function**

Built-in filter with powerful filtering function, effectively preventing debris from entering the valve.



**Tight Sealing**

The sealing surface uses an SCCV reverse-closing system. With fine adjustments, it self-centers upon closure, offering excellent sealing performance and highly reliable closure. Valve closes under negative pressure, providing a check function.

**No Installation Position Constraints**

The entire range of bimetallic traps can be installed in any direction.

**Durable**

The entire range of bimetallic traps is frost-resistant and water hammer-resistant.

**Energy Efficiency**

Effectively utilizes the sensible heat in high-temperature condensate, resulting in significant energy savings.

