High efficiency and energy-saving due to reliable performance

The inverted bucket trap operates on the principle of the density difference between steam and condensate. Due to the significant density difference between gas and liquid, the buoyancy is also considerably different. Utilizing this property allows the bucket to function, thereby opening and closing the valve to discharge condensate. The entire design includes a unique lever system that amplifies the force provided by the float to overcome steam pressure and open the valve. The open inverted bucket prevents damage caused by water hammer.

Wear resistance and corrosion resistance

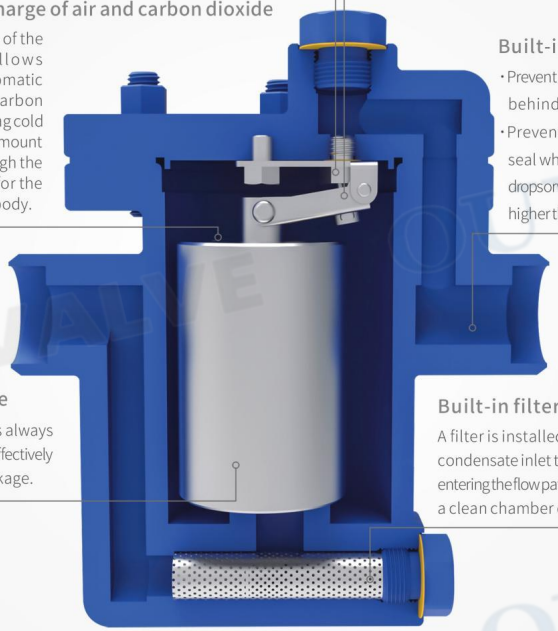
The valve core and seat experience minimal or no single-sided wear. By reducing the closing force required to maintain a seal, internal part wear is minimized. The closing components are made of stainless steel, enhancing corrosion resistance.

High Reliability

SCCV (Self Closing and Centering Valve System) closing system is an automatically centering and self-closing system. This innovative design surpasses traditional methods by ingeniously using the adhesion force of discharging condensate and the internal valve pressure to close the valve core. During closure, the valve core has a cushioning effect, which reduces wear between the valve core and valve seat.

Continuous discharge of air and carbon dioxide

The air vent at the top of the inverted bucket allows continuous and automatic discharge of air and carbon dioxide without causing cold lag or air lock. A small amount of steam passes through the vent to compensate for the heat loss of the valve body.



Built-in Check Valve

- Prevent backflow of condensate behind the valve
- Prevent the loss of the water seal when pressure suddenly drops or when the trap is positioned higher than the collection point.

No steam leakage

The inverted bucket is always in a water-sealed state, effectively preventing steam leakage.

Built-in filter

A filter is installed at the bottom of the condensate inlet to collect any sediment entering the flow path, effectively maintaining a clean chamber environment.

Easy inspection

The intermittent discharge action is an important indication of the proper functioning of the inverted bucket steam trap.

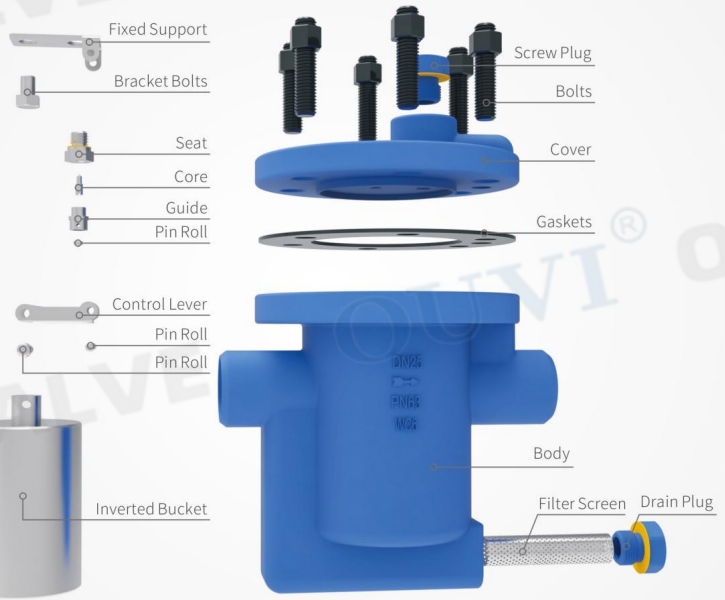
Water hammer resistance

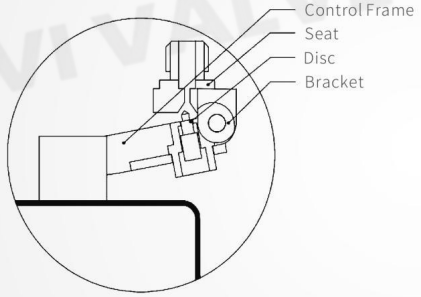
The open bucket will not be damaged or flattened by water hammer.

It operates well under back pressure

The operation of the trap is controlled by the density difference between steam and condensate, ensuring reliable performance.

OUVI® OUVI VALVE
Inverted Bucket Steam Trap (ES Type)





Wear-resistant SCCV closing mode

SCCV (Self Closing and Centering Valve System) closing system is an automatically centering and self-closing system. This innovative design surpasses traditional methods by ingeniously using the adhesion force of discharging condensate and the internal valve pressure to close the valve core. During closure, the valve core has a cushioning effect, which reduces wear between the valve core and valve seat.