High efficiency and energy-saving due to reliable performance

In the working principles of various traps, the inverted bucket type is the most reliable. Its design centers around a unique lever system that amplifies the force provided by the float to overcome steam pressure and open the valve. The inverted orientation of the float prevents damage caused by water hammer. To extend its service life, all wear points are reinforced. The inverted bucket trap has only two moving parts-the valve lever and the inverted bucket-so it cannot jam or become blocked.

Wear resistance and corrosion resistance

The freely floating guiding lever mechanism is frictionless, and all wear points are reinforced. All moving parts are made of stainless steel, and the valve disc and seat are also made of stainless steel or alloy materials. They are ground and matched together on a mechanical device.

In practice, there is no steam loss

Steam cannot reach the water-sealed valve seat.

Reliable operation

There are only two moving parts: Valve lever and inverted bucket. The structure is simple, with no jamming or blocking issues.

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.

Eliminating the trouble of debris

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.

It operates well under back pressure

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

Easy inspection

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

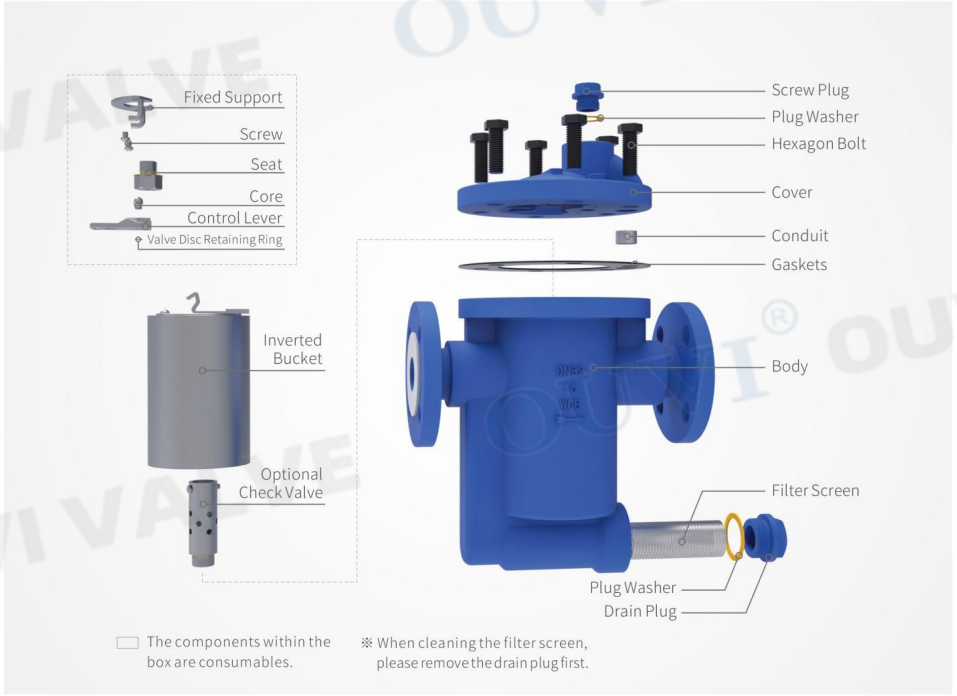
Water hammer resistance

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

Cleaning Action

The quick opening of the valve generates an instantaneous pressure drop and vortex due to the steam equipment, disrupting the water and air films and prompting them to flow into the trap. The valve opening is either fully open or completely sealed, preventing the accumulation of debris and ensuring that rust in the pipes does not cause sealing issues.

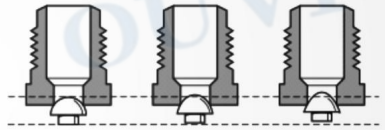
OUVI® OUVI VALVE
Inverted Bucket Trap (Free Floating Type)



Ouvi Inverted Bucket Trap Seat and Spherical Disc

Line contact-Randomly generated sealing line for single seat

The wear characteristics of the Ouvi inverted bucket trap exhibit line contact



As wear increases, the valve disc of the inverted bucket trap sinks deeper into the valve seat, maintaining sealing reliability.