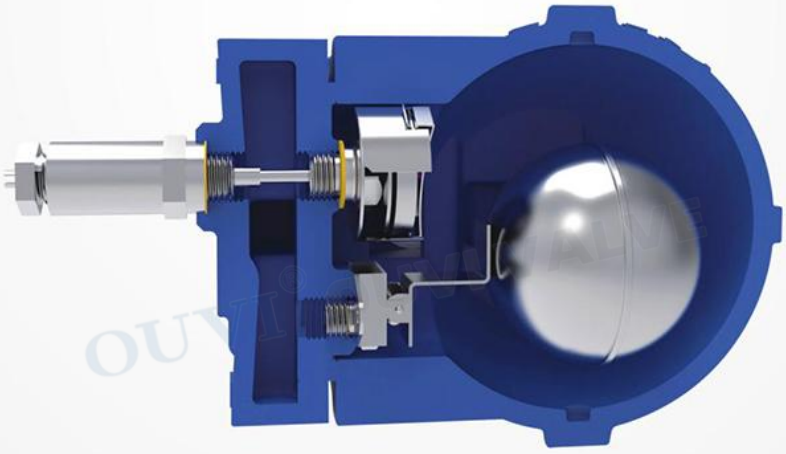
Float Type Steam Trap

Principle

A mechanical steam trap that discharges condensate by utilizing the density difference between steam and condensate.

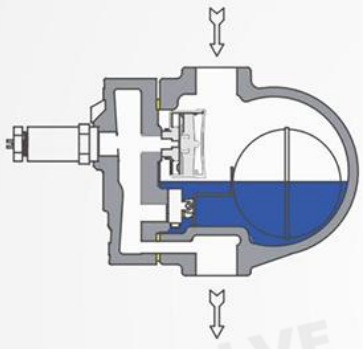
Advantages

- Durable, lightweight, and low installation cost;
- Quick discharge, tight shut-off, no clogging, ensuring optimal equipment operating efficiency;
- Robust structure with excellent air discharge capability;
- Available for horizontal or vertical installation, reducing installation issues;
- Compact size with high discharge capacity;
- Stainless steel internal structure provides corrosion resistance.

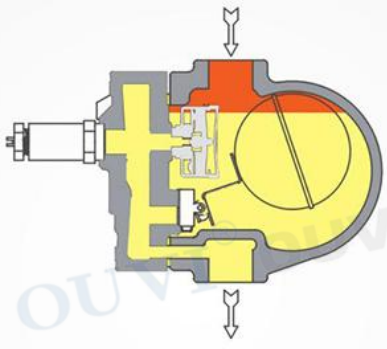


Operating Principle

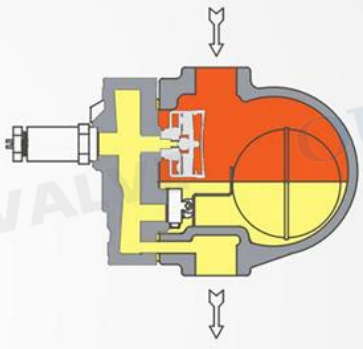
Air | Low temperature condensate | Hot condensate | Steam



1. During startup, the thermostatic air vent allows air inside the equipment to be discharged without passing through the main valve; otherwise, air cannot escape (A condition known as air binding).



2. When condensate reaches the trap, the float rises, lifting the linkage to open the main valve. The hot condensate causes the air vent to close, allowing discharge only through the main valve. When steam reaches <, the float lowers, closing the main valve. Since the main valve sits below the water level, there is no possibility of steam leakage.



3. When used with a siphon drum or long discharge pipes, steam locking may prevent condensate from reaching the trap. In such cases, a steam lock release device should be installed to release steam accumulating in the trap and siphon, allowing continuous condensate discharge.