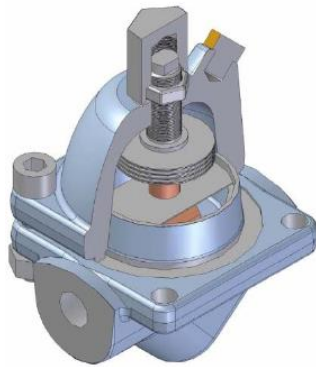


## Pyplok® In Steam Traps

A steam trap is a device used to discharge condensate and non-condensable gases with a negligible consumption or loss of live steam.

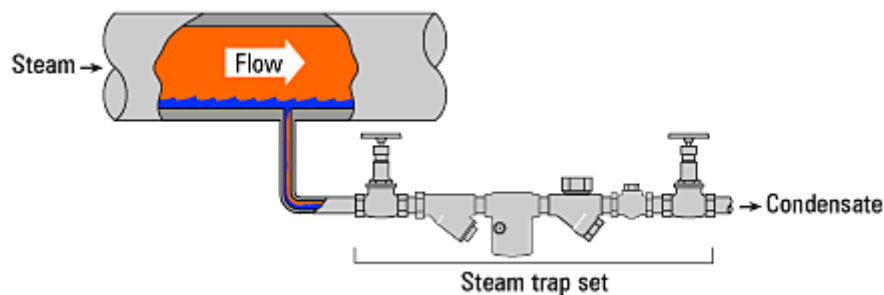


Most steam traps are nothing more than automatic valves. They open, close or modulate automatically.

The three important functions of steam traps are:

- Discharge condensate as soon as it is formed (unless it is desirable to use the sensible heat of the liquid condensate)
- Have a negligible steam consumption (i.e. being energy efficient)
- Have the capability of discharging air and other non-condensable gases.

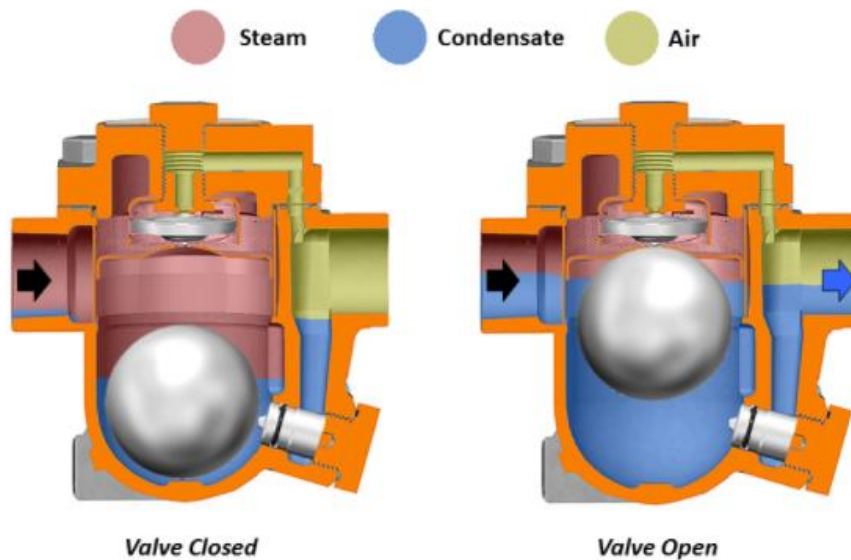
The steam traps are typically installed on steam lines as shown below:-



## A. Why are Steam Traps Installed?

Steam is formed when water changes its form from liquid to gas. When water changes to gas it has to be given an energy called as latent heat to change forms.

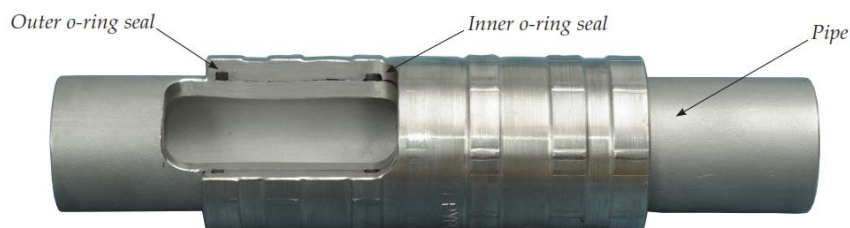
Steam-based heating processes use latent heat and transfer it to a given product. When the work is done (i.e. steam has given up its latent heat), steam condenses and becomes condensate. In other words, condensate does not have the ability to do the work that steam does. Heating efficiency will therefore suffer if condensate is not removed as rapidly as possible, whether in steam transport piping or in a heat exchanger. Hence steam traps are used to remove the undesirable condensate from the steam lines.



There are different types of Steam Traps like

- Mechanical Type
- Thermodynamic Type
- Thermostatic Type
- Venturi Nozzle Type

## Pyelok and Steam Traps



PYPLOK® is used a lot in steam lines, they are also used for steam trap lines and is shown below:-

1. Taking measurements for replacement.



2. Preparatory marking on the PYPLOK® fitting



3. Installing PYPLOK



4. PYPLOK® installed to connect steam trap.



PYPLOK Fitting