

# fenix traps

## Fenix Hydrodynamic Steam Traps

*The permanent solution to the problems associated with Mechanical steam traps.*

The *Fenix* steam trap is a *hydro-dynamic* trap using venturi technology to continuously remove condensate without passing live steam. The traps are designed specifically for each application and will reduce steam waste and eliminate condensate backups that can cause operational problems for the equipment being protected. The Fenix trap has *no moving parts* and is guaranteed for 15 years although it is built to last much longer.



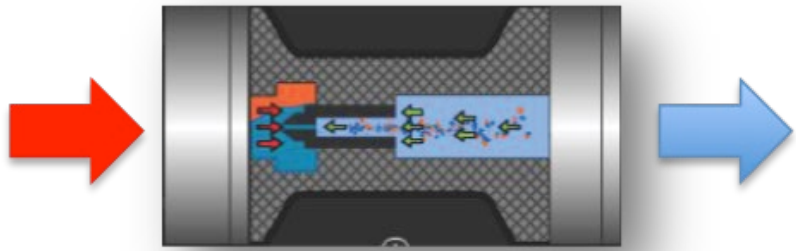
The *Fenix* traps come in multiple configurations to match the existing trap configuration so that minimal work is needed to install the new trap. Flanged, threaded and socket welded designs are all available.

In addition, the *Fenix* traps have been designed for very easy maintenance and, if necessary, orifice replacement without having to remove the entire trap.

[Click Here for the Fenix Trap Catalog](#)

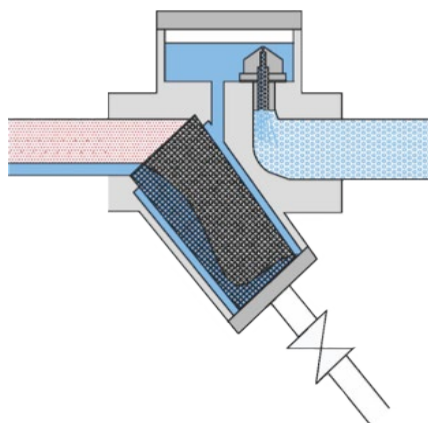
## How does it work?

When condensate is pushed by high pressure steam to the trap, the condensate is forced through an orifice opening to the venturi section. As the condensate passes into the venturi, the pressure reduces and the condensate will flash with the resulting flash steam pressure building to restrain the flow of condensate through the orifice. The system is self-regulating under varying loads.



During cold start-up conditions the trap will pass 3 times the volume of condensate since there is no flashing and resulting back pressure of the "cold" condensate.

Fenix EF traps for low flow line drainage and trace heating include an easy to maintain filter to keep particles from plugging the orifice. With regular maintenance there will be no wear of the orifice allowing the trap to perform for many years as it has the day it was installed.



There is no more need for trap studies with temperature and audio devices. A simple check to see that the trap is hot will show that the trap is working properly. We offer an optional, removable insulating cover with built in wireless monitoring for continuous indication of trap health

## The Fenix Benefits

- 10 to 25% steam savings  
(Typical payback in less than 12 months)
- Reduced maintenance costs
- Reduced plant downtime
- Improved process stability
- Potential production increase
- Reduced Secondary Consequences
  - ✓ Erosion of heat exchanger tubes
  - ✓ Erosion of control valves and flow meters
  - ✓ Tube failure, erosion or water hammer
  - ✓ Limited boiler capacity
- Performance Guaranteed for 15 years!

## Some of our customers



Bayer



Kimberly-Clark



Ingredion™



Cuauhtémoc  
Moctezuma  
HEINEKEN MÉXICO



Unilever



SABORMEX®

Please contact us for more information and to set up a visit, presentation and evaluation of your existing system.