

PROTECT YOUR FLAME ARRESTOR



INNOVATIVE TECHNOLOGIES

INNOVATIVE

COST-EFFECTIVE

TIME SAVING

PLANNABLE FILTER CHANGE

DOWNTIME - SHORT CHANGE OVER TIMES

COST SAVING

MAINTENANCE FRIENDLY

ERGONOMIC

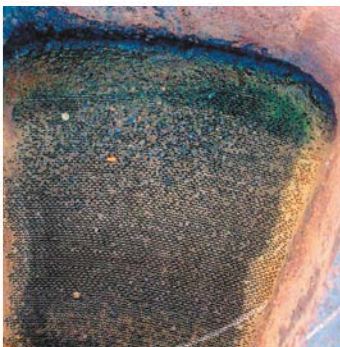
EUROPEAN MANUFACTURE

ATEX SAFE

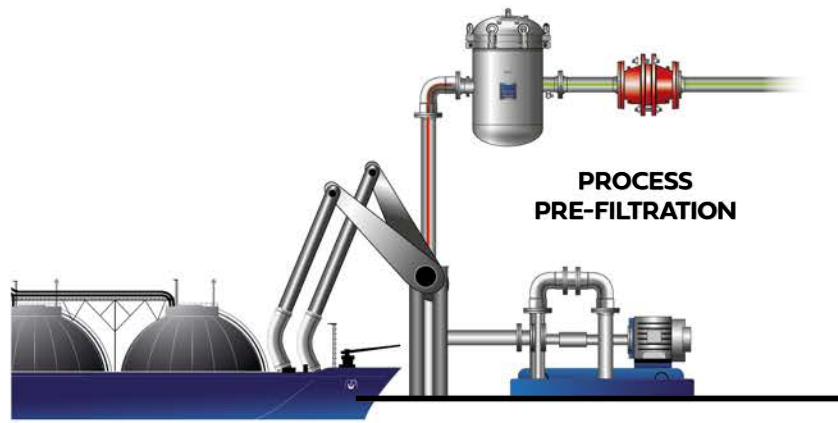
BÈTA INDUSTRIE SPECIALIST IN PROCESS SPECIFIC APPLICATIONS



PROTECT YOUR FLAME ARRESTOR



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VAPOR RECOVERY & FLAME ARRESTORS

A common problem in process installations is clogging of so-called Flame Arrestors.

Flame arrestors, or detonation extinguishers, are essential for safety, due to the fact that they ensure flames cannot spread into the (tank-pit) installation in the case of an explosion. An important application is in vapor recovery/processing units for the removal of hydrocarbon vapors when filling (sea) ships with liquids. The flame arrester is built into the piping and consists of very fine channels up to about 900 microns (0.9 mm), which cause the flame to die out. What we often encounter is that these channels effectively start functioning as a filter, for which the flame arrester is not intended. Blocking of the arrester then occurs through a combination of:

- Rust and corrosion particles;
- Soot and dust;
- Hydrocarbons, often tarry and sticky in nature.

Due to this pollution, the pressure difference increases, causing the operation to be disrupted and making ships having to wait longer for loading, which often brings high costs.

An additional and often underestimated problem is that due to the pressure drop and the higher gas velocities in the flame arrester the flame extinguishing effect is no longer guaranteed. There have also been cases where the vapor has sought another way out due to the excessive pressure in the pipe.

The flame arrestors can be cleaned by specialized companies or done makeshift, which is what regularly occurs both planned and ad-hoc during the loading of (sea) ships.

INNOVATIVE PRE-FILTERING FLAME ARRESTOR

With an effective pre-filter with sufficient filter surface and a sufficiently efficient filtration to capture the pollution, unplanned and intermittent cleaning can be prevented, and a lot of time can be saved! Additionally the costs associated with the operation and delays can be reduced.

The flame arrester then remains continuously clean and can do what it is for; namely ensuring the safety of the installation as well as guaranteeing the progress of the operation.

We are happy to assist in the realization of optimal solutions for necessary systems in this industry.



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