

Energy-efficient Flare of Process Gasses

The safe way to save energy



CONVERSION AND MODERNIZATION
Process security + Energy efficiency

SAVE ENERGY WITHOUT COMPROMISING PLANT SAFETY

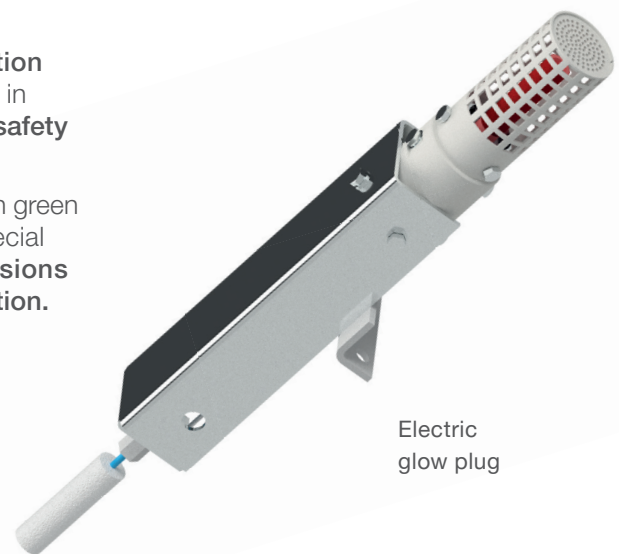
For a **safe operation** of the furnace, a **controlled flare** of the excess process gasses is essential for plant safety. It is also **required** by the relevant **standard**. At the same time, the principle of controlled flare uses **a lot of energy**, as the relevant sources of ignition must usually be supplied with a **combustible gas**.

Any continuously operating **pilot burner** produces approx. **8,000 kg CO₂ per year**. Usually, there are at least two such burners installed in your plants. The entire infrastructure required for this ignition source (pilot burner, valves, electrodes, automatic burner control), also requires a **higher maintenance effort**, which is necessary for safe operation.

THE AICHELIN SOLUTION: EFFICIENT AND SAFE

AICHELIN has made a conscious effort to find a **new solution** by way of an electric annealing device. This is much lower in maintenance and uses significantly **less energy – while the safety level remains unchanged**.

This way, you can **reduce CO₂ emissions** by up to **100%** with green electricity and yet maintain a high standard of safety. A special focus was put on keeping the mechanic **effort of conversions as low as possible** so as to **barely interrupt your production**.



Electric glow plug

YOUR ADVANTAGES

- Reduced **CO₂ emissions**
- Lower energy consumption and thus **lower running cost**
- Lower **maintenance effort**
- High plant safety and availability
- Complete **one-stop implementation**
- **Safe** and perfectly integrated **solution**
- Very **short production downtime**: The plant can be handed over for conversion while still in a warm operational state.

AICHELIN: YOUR RELIABLE PARTNER

- Ultimate **flexibility** while implementing customer requests (date, scope & extras)
- Your project is in the **safe hands** of a market leader in heat treatment.
- High **competence** regarding plant modernizations
- Constant and **reliable partner** for project implementation