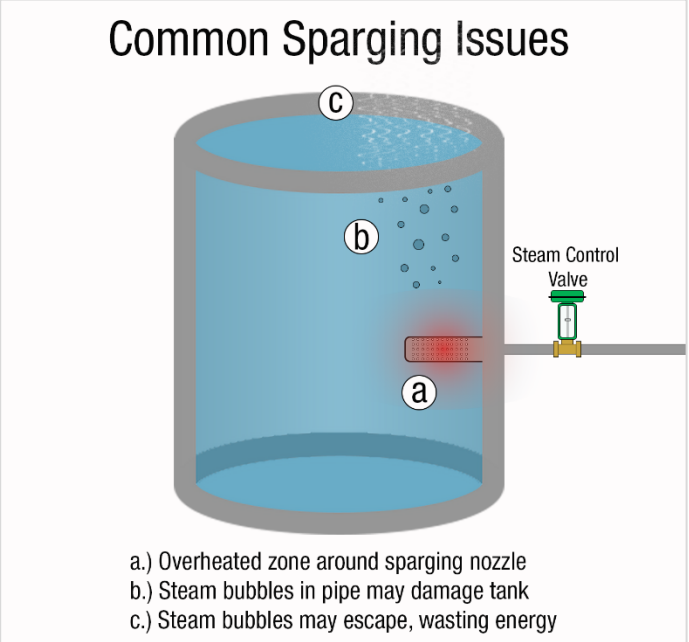
Application: Tank & Vessel Heating – Jet Sparger Optimization

ProSonix tank spargers deliver fast, efficient, and precise heating for water and process fluids in tanks and vessels, supporting applications from cleaning and sanitization to boiler feedwater and pasteurization.

Challenges with Traditional Tank Heating

- **Heat Exchangers:** Require extensive space, condensate return systems, and are prone to scale and maintenance issues.
- **Conventional Spargers:** Often cause vibration, uneven heating, and steam loss due to inefficient condensation.
- **Steam Control Issues:** External valves reduce steam velocity, leading to incomplete mixing and energy waste.

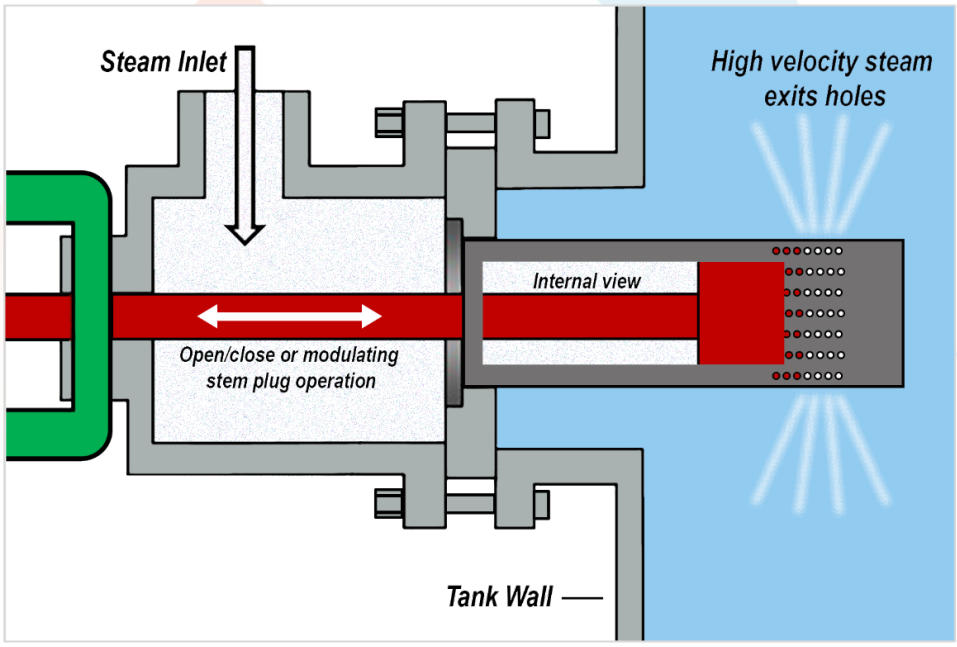


ProSonix Jet Sparger Advantages

- **High-Velocity Steam Injection:** Ensures rapid mixing and complete condensation, minimizing energy loss and preventing vibration.
- **Integrated Steam Control:** Modulates steam flow internally, eliminating the need for external valves and ensuring stable operation.
- **Self-Cleaning Design:** Reduces scale buildup and maintenance, extending equipment life.
- **Precise Temperature Control:** Achieves consistent results with tank, discharge, or cascade loop sensors.

Key Benefits

- **Tank temperature:**
  Higher tank temperatures compared to common spargers
- **Energy Efficient:** Faster heat-up and minimal steam loss.
- **Reliable Operation:** No steam hammer or cavitation.
- **Low Maintenance:** Self-cleaning action and durable construction.
- **Versatile:** Variable capacities and injector lengths make it suitable for tanks of all sizes; for higher temperatures or inline heating, consider the ProSonix Jet sparger.



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