BURGESS-MANNING
A CECO ENVIRONMENTAL BRAND

CECO ENVIRONMENTAL

CASE STUDY

Safety-Critical Vent Silencers for Autoclave Operations

Customer Challenge:

At several facilities, Zotefoams operates high-pressure autoclaves with repeated blowdown cycles. For the referenced projects, the vent silencers needed to be engineered for defined pressure transients, thrust loads, operating frequency, acoustic criteria and design-life requirements.

Solution:

Burgess-Manning delivered custom vent silencers designed specifically for autoclave blowdown conditions:

- Designed for extreme pressure transients and thrust forces
- Engineered as pressure-containing, safety-critical equipment
- Suitable for frequent operation with no performance degradation
- Fully evaluated for mechanical integrity and fatigue resistance





Outcome:

The referenced silencers were supplied for multiple Zotefoams installations and have supported routine autoclave blowdown service under their specified operating conditions. The projects show a collaborative engineering approach in which each vent silencer was configured around the process, mechanical and acoustic requirements of the individual installation. Performance statements relate only to the referenced projects and defined operating conditions.

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