

CASE STUDY

How we customized the LoKr Rupture Disc for Unique Industrial Mixer Requirements

SITUATION

When is a process disk not a process disk?
Let me tell you.

A manufacturer of industrial mixers recently faced a unique predicament: Their client required pressure relief for existing equipment. This equipment imposed some interesting design constraints, including limited space, only 6" sanitary ferrule connections, a need to vent directly to atmosphere, and an unusually low burst pressure of 7 psig. It was obvious that neither a process disk nor a rupture disk assembly from our custom engineered range would meet this unique combination of requirements.

ACTION

The solution was to adapt OsecoElfab's flagship LoKr rupture disc, known for its precision and performance at low pressures, for the unusual environment. Key adaptations were to reduce the minimum burst pressure from 10 psig to 7 psig, weld the disc into a 6" sanitary ferrule connection, and provide a free venting outlet for atmospheric venting.

RESULT

This innovative approach transformed the LoKr process disc into a custom-welded OEM product that fit the customer's unique specifications. Thanks to the design team's ingenuity and cross-functional collaboration, the finished solution met the challenges of limited space and low pressures while ensuring compliance with rigorous safety standards.

LoKr

From process
disc...



... to welded OEM
component



This case study is just one example of our ability to customize existing products and flexibly meet challenging situations. For unique needs beyond standard specifications, specialized design and engineering can provide effective, compliant solutions.

If you have specific requirements that standard solutions cannot meet, contact us to explore how our Innovation Team can assist you.