

P DETROIT PUMP

Customer Spotlight Case Study Solving the Liquid Glass Diaphragm

The Problem: Pumping sodium silicate was destroying diaphragms, on average just lasting 8-10 weeks. The failures were leading to down time, high maintenance costs. After researching the issue, the problem was the sodium silicate, when exposed to air prematurely hardened into “liquid glass”. These particles would they etch the Teflon overlay of the standard diaphragm leading to the early failures.

The Solution: Detroit Pump and LMI designed a new diaphragm for the customer. The Teflon overlay was removed, the materials were changed and reinforced the diaphragm. With the new diaphragms installed, the user has not experienced a diaphragm failure in over two years.

Improved Design

- * New design specifically for customer situation
- * Reduced maintenance
- * Reduced downtime from failures



800.686.1662

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