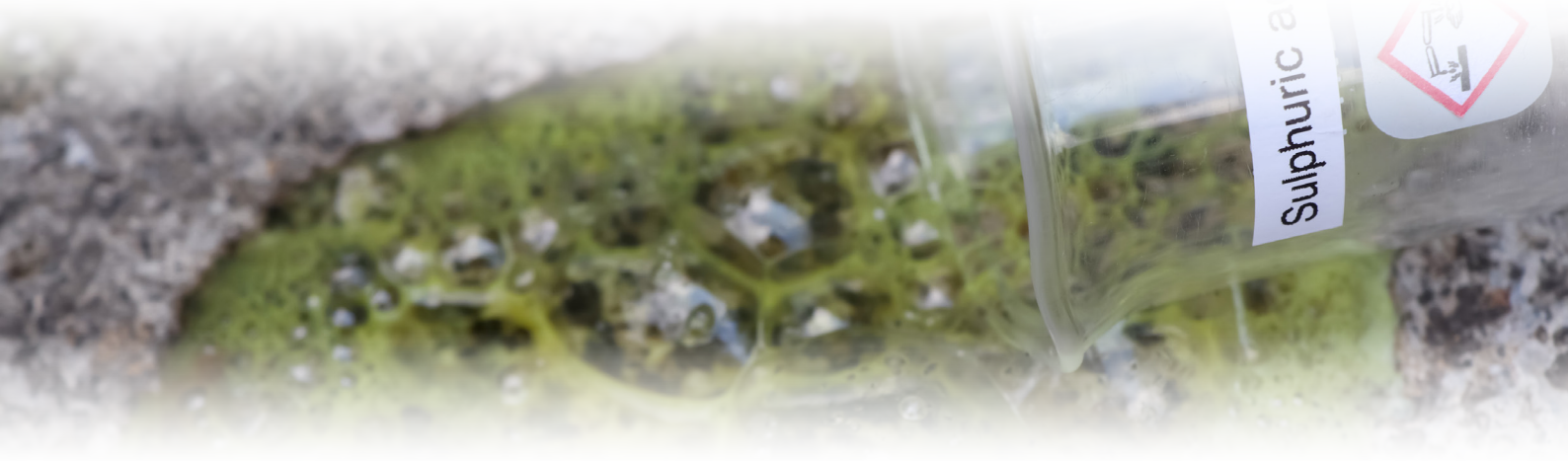
APPLICATION SPOTLIGHT

ARO®

Pumping Sulfuric Acid for Ethanol Production

TECHNAFLO SOLUTION



Application Overview

Sulfuric acid is one of the most important industrial chemicals, due to its wide use across a variety of applications and industries such as producing fertilizers, refining gasoline, and manufacturing chemicals. It is very dangerous and highly corrosive, which can result in severe burns if not handled properly. Within a full ethanol processing plant, a system needs to pump sulfuric acid into its process in order to control the pH levels of the ethanol being produced

Customer Problem

ARO's customer was running into issues with the pumps they were previously using as they would not last more than 30-60 days before they would need to be rebuilt. This resulted in plant shutdowns, causing loss of valuable time, money, and resources.

Solution

To combat this issue and prevent any future failures, the customer decided to install ARO's TechnaFlo T Series pump. The T Series was chosen for installation due to the robust external gear design and history of longevity in tough chemical applications.

ARO's T Series provides superior accuracy in chemical dosing service. Engineered using multiple materials of construction to ensure chemical compatibility and safety, The T series' robust external gear design allows for a 20,000-hour expectancy between servicings, increasing the customer's efficiency.

This pump was an easy selection due to its superb chemical compatibility with highly concentrated and highly corrosive chemicals like sulfuric acid.

T SERIES SPECIFICATIONS

- 7.9 ml/rev Displacement
- Hastelloy C Wetted Metal Parts
- Polyphenylene Sulfide (PPS) Gears and Bearings
- Polytetrafluoroethylene (PTFE) O-Rings

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