

HIGHLY CORROSIVE CHEMICAL

Application Sheet #8

REAL TIME BENEFIT

Effective solution to unique application. Increased chemical savings and optimized production.

SITUATION

- Customer was using a corrosive chemical that would constantly leak when injected through stainless steel pumps.
- The chemicals extensive turndown requirements (range of injection rates) limited the customers pump options.
- This was a critical application which had the potential to provide significant cost savings to the end users process. However, without a reliable injection pump capable of this task the savings would be greatly affected.

SOLUTION

- Sirius was able to provide a pump that injected the chemical reliably, accurately and practically maintenance free.
- The Gemini Controller increased the injection range by a factor of 100 which allowed the customer to effectively achieve the required range.
- Via a 4-20 mA signal tied into the process flow meter, the system automatically adjusted the injection rate to optimize chemical costs while enhancing production.

RESULTS

- With the reliability of the pump, the chemical was given the best opportunity to perform effectively. This saved the customer significant process costs.
- The turndown of the pump allowed one pump to perform the task that previously required multiple pumps.
- Through the 4-20 mA automation the amount of chemical injected was optimized. This led to reduced chemical costs and enhanced production.



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