



## Custom Solutions Bulletin

**Industry:** Refining

**Application:** Fluid Injection

**Product Descriptions:** Custom Lance Fabrication

**Situation:** A BETE customer was interested in using several injection quills in a multitude of their injection processes. The processes included wash water, sour water, and anti-foaming agent injection. The quills needed to include two connection flanges and be able to withstand the harsh process conditions.

**BETE's solution:** The quills were fabricated from 316 stainless steel and Hastelloy C276 for the varying degrees of chemical resistivity and heat resistance necessary. The inlet connections are raised face, weld neck flanges and the process connections are blind raised face flanges. The flanges have pressure ratings from 150 to 2500 pounds. Some quills included a slot on the tip that creates turbulence in the fluid flow that helps distribute the injected fluid. BETE designed and fabricated the quills per the customer's specifications.

### Technical Questions?

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