

Industry: Chemical Processing

Application: SO₂ Scrubbing

Product Description: Special High Flow NCK

Situation: A BETE customer from a large international chemical company called Applications Engineering with the requirement for nozzles to go into a scrubber they were preparing to build. The scrubber service would be removing Sulfur Dioxide from a gas by reaction with Sodium Hydroxide that would be injected by the nozzles. Sodium Sulfite and water would result. The nozzle would be required to flow 1150 gpm (4350 L/min) at 30 psi (2.1 bar) and unleash substantial energy to facilitate mixing.

BETE's solution: BETE Applications Engineering coordinated efforts with both the chemical company and the engineering firm that was contracted to build the scrubber. The nozzle specified for the job was a special high flowing NCK in Teflon with a 15 degree spray angle. The narrow spray angle was chosen to concentrate the force.

Technical Questions?

Please contact:
Applications Engineering
(appeng@bete.com)
413-772-0846
App#051195

