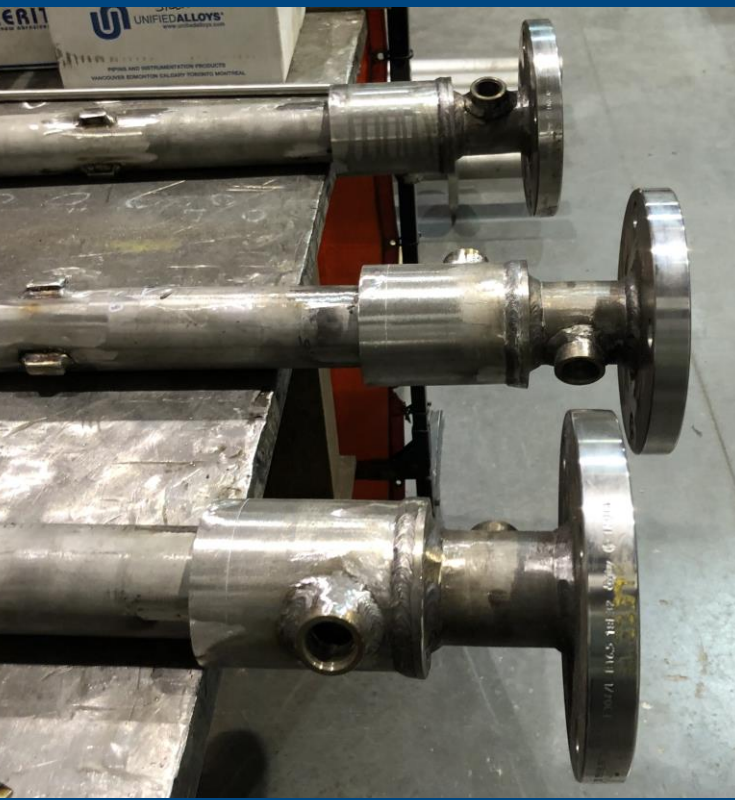


NORAM
SULFURIC ACID
Products and Services

NORAM SULFUR GUNS PRESSURE ATOMIZATION



NORAM Sulfur Guns

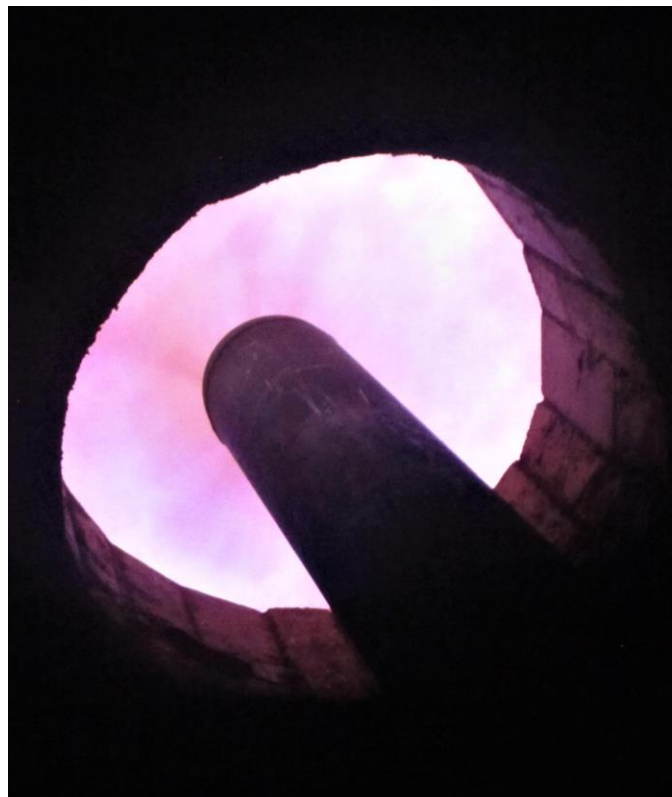
The rate limiting step in the combustion of sulfur is the vaporization rate of liquid sulfur. Proper atomization, that means generation of large sulfur surface areas, is the most important aspect in sulfur combustion.

Pressure Atomization uses high shear in a spray nozzle to create small sulfur droplets. Pressure atomization is the more energy efficient process to produce small droplets. Droplet sizes in pressure atomization are typically 1 mm in diameter. With this droplet size, complete sulfur combustion is achievable at sulfur furnace residence times of about 1 – 1.5 seconds.

Pressure atomization is the most common method used in North American sulfuric acid plants. The sulfur feed pipe in pressure atomizing guns, with the spray nozzle mounted at the end, is protected by a steam jacket, which prevents sulfur from solidifying and exposure of the gun to the hot furnace gas.

Features of NORAM Sulfur Guns

- Steam jacketed pressure atomizing guns to protect sulfur from freezing and from exposure to high temperature furnace gas
- Custom designed for every furnace application



NORAM Pressure Atomizing Sulfur Gun



NORAM Pressure Atomizing Sulfur Gun with Spray Nozzle



Lab Testing NORAM Pressure Atomizing Sulfur Gun

NORAM ENGINEERING AND CONSTRUCTORS LTD.

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E-mail: acid@noram-eng.com Website: www.noram-eng.com

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NORAM SF™ SPLIT FLOW GAS-TO-GAS HEAT EXCHANGERS
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