

4.4 DTH Series Absorber Spray Nozzles



Type of component: BETE DTH Series Absorber Spray Nozzles

Nozzle Type: Double hollow cone tangential

Spray Pattern: Two hollow cone spray patterns, one spraying down; one spraying up



Specific Function in FGD System:
Deliver atomized slurry into tower section

Materials of Construction: Silicon Nitride Bonded Silicon Carbide (SNBSC)
Other materials available on request

Expected Service Life Under Design Range of Conditions:
SNBSC: 80,000+ hours

Environmental Limitations:
Free Passage: 1.5"-2.5"+ (36-64mm+)
Temperature: 3000°F (1650°C)

Features:

The BETE **DTH** series features two orifices, each of which forms a hollow cone pattern, with one spraying downward and the other spraying upward. The geometry of the design has been developed to produce the most uniform possible spray distribution in each cone.

The upward spraying cone accomplishes two objectives: 1.) reduces the pressure drop across the absorber and 2.) increases the average droplet residence time. The **DTH** is also available with unequal flows in the cones such as 70% upward spraying and 30% downward spraying.