



BETE[®]
PERFORMANCE THROUGH ENGINEERING

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Custom In-House Fabrications

Everything needed to scope, order, design and produce your custom spray fabrication – all under one roof. Our departments work seamlessly together to ensure the products you receive are of the highest quality. Achieve your optimal performance solution with engineering customized to your requirements.



Fabrications are multicomponent assemblies, typically with spray nozzles included, that provide a drop-in spray solution. BETE assemblies allow for simple and easy installation without the hassle of coordinating between multiple suppliers and fabricators.

INJECTION QUILLS AND SPRAY LANCES

Injection Quills

- Pipe and flange
- Stationary or retractable
- Used to introduce metered chemical injection into process



Spray Lances

- Drop in solution
- Single- or Two-Fluid (Air-Atomizing) spray nozzles
- Complex code compliant fabrications



Retractable Spray Lances

- Inspect and service nozzles without disrupting process
- Options include lance, isolation valve, drain valve, and retraction mechanism



SPRAY BARS, MANIFOLDS, HEADERS, AND SPOOLS

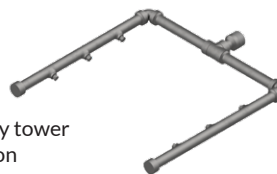
Spray Bars & Manifolds

- Uniform spray coverage across wide areas
- Common for conveyor coating
- Optimize liquid/air flow and nozzle placement



Headers

- Multiple nozzle arrangements
- Common for spray tower or area distribution
- Branched or ring designs



Spoils

- Entire spray injection assembly for bolt-in or weld-in installation
- Consists of duct, vessel, or pipe section with spray lance(s) or quill(s) installed



Top Industries for Our Fabrications

- PetroChemical
- Refining
- Chemical Processing
- Power Generation
- Waste Management
- Food & Beverage Processing
- Municipal Water
- Transportation
- Mining
- Steel and Alloy Production

Solutions for Your Industry

- Gas Cooling/Conditioning
- Gas Scrubbing
- Tank Washing
- Wash Water Injection
- Chemical Injection
- Combustion Processes
- Steam Sparging
- Liquid Distribution
- Tank Mixing

Visit BETE.com for comprehensive spray nozzle tools, case studies and literature.



Why Choose BETE

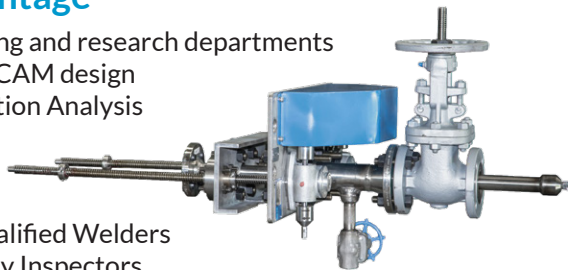
Here at BETE, our success is rooted in understanding our customers' business, to provide practical solutions for critical fluid process challenges. With over 65 years of experience in designing and fabricating fluid flow systems, BETE practices a deep understanding of spray system engineering, nozzle design, and manufacturing, streamlined by our commitment to exceptional customer service.



At BETE, not only are we proud to employ some of the world's premier spray engineers – we also boast a modern, state-of-the-art manufacturing facility to ensure your orders are delivered on time and within budget. Our in-house foundry specialists, skilled fabricators, and machining experts have created nozzles for everything from standard applications in food processing to highly specialized solutions for petrochemical, deep-sea and outer space.

The BETE Advantage

- Dedicated engineering and research departments
- Integrated 3D CAD/CAM design
- CFD, FEA, and Vibration Analysis
- Rapid prototyping
- CNC machining
- Investment casting
- ASME Section IX Qualified Welders
- ASQ Certified Quality Inspectors
- State-of-the-art spray laboratory
- Knowledgeable & personalized customer service



We Offer Many Certifications for our Fabrications

- ASME B&PV Code Section VIII-1
 - U Stamp, PP Stamp, R Stamp
- ASME B31.1 – Power Piping Code
- ASME B31.3 – Process Piping Code
- ASME B&PV Code Section IX Welding Qualification
- ASME PTC 19.3-2016 Vibration Analysis
- Canadian Registration Number (CRN)
- Pressure Equipment Directive (PED) 2014/68/EU
- NACE Corrosion Compliance



BETE Fog Nozzle, Inc. Qualified For The Task

- Working with BETE as your primary fabricator ensures all components are designed to fit and work together
- Reduced need for coordinating between multiple suppliers saves you time and hassle
- Non-Destructive Examination (NDE) Qualifications
 - PMI, PT, RT, UT, VT, Hydrostatic Testing, Hardness Testing
- As a world leader and innovator in the nozzle industry for over half a century, BETE provides personalized service and experience to guarantee solution confidence



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