

## CUSTOM ENGINEERED SPRAY SYSTEMS & FABRICATION SOLUTIONS

# WORK WITH ONE SUPPLIER FOR ALL YOUR DESIGN, FABRICATION, & TESTING REQUIREMENTS

Leveraging over 70 years of experience with industrial nozzle design, advanced engineering, and manufacturing resources, BETE has grown far beyond spray nozzles. Our deep understanding of spray nozzle and fluid system performance allows us to design a system to meet your specific operational needs and requirements.

Many industries, including refineries and chemical plants, count on BETE to supply complete fabricated assemblies or spraying systems. If you want to improve an existing spray system, we can evaluate your equipment and recommend changes to improve performance and reliability. Our departments work seamlessly together to ensure you receive high-quality products.

## MANUFACTURING CODE COMPLIANCE, TESTING, & VALIDATION

Fabrication is BETE's specialty, from complex ASME Code compliance to simple flush pipe and flanged assemblies. Our highly qualified welders have extensive experience welding dissimilar metals and exotic alloys, including nickel and cobalt alloys.

Our engineers start by incorporating all your project specifications to ensure we meet your design requirements, including any referenced industry codes, to deliver a fully compliant fabrication.

### **Design Requirements**

- ASME B31.3 Process Piping
- ASME B31.1 Power Piping (PP Authorization)
- ASME Boiler and Pressure Vessel Code Section VIII, Division 1 (U Authorization)
- Welding qualification to ASME B&PVC Section IX
- Canadian Registration (CRN)
- Pressure Equipment Directive (PED) 2014/68/EU
- NACE compliance

### Mechanical Inspection

- RT Radiographic
- UT Ultrasonic
- PT Visible Dye Penetrant
- Hydrostatic
- ✓ Hardness
- PMI Positive Material Identification

#### **Performance Inspections**

- Show
- Spray Angle
- 🥑 Cone Shape
- Ø Droplet Size
- Special Customer Requirements

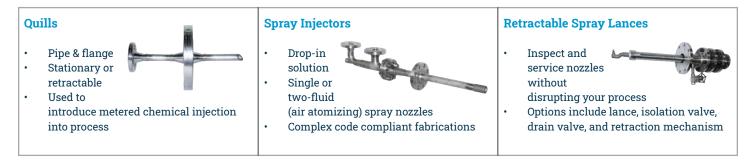


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## IMPROVE YOUR PROCESS WITH PERFORMANCE SPRAY ENGINEERING

### SPRAY LANCE, INJECTOR, & QUILL SOLUTIONS

Use BETE spray lances, injectors, and quills for injecting liquid or gas into a process stream to create stable conditions for the safe and efficient operation of downstream plant components. Spray lances also ensure correct nozzle placement in various applications.



## SPRAY HEADER, SPARGER, & SPOOL SOLUTIONS

Precise nozzle arrangement on spray headers, spargers, and spools is as critical as selecting the right nozzle for your application. BETE can fabricate the piping section for optimal nozzle installation.

#### **Spray Headers**

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



### **Spargers & Spools**

- 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



## CUSTOM ENGINEERED SPRAY SYSTEM SOLUTIONS

BETE automated spraying systems can operate as stand-alone units or integrate with central plant control systems for remote monitoring and control input. An engineered system may include any or all of the following components.

- Nozzles/lances
- Piping/tubing/fittings
- Valves
- Pressure regulators
- Strainers/filters
- Solenoids
- Automatic control valves

- Pumps/motors
- Pressure/temperature/flow sensors
- Variable Frequency Drives (VFD)
- Custom design control panels
- Switches, relays, & other electrical hardware
- Structural skid frames



Contact us today to see how our trusted industry experience and automated spray solutions can help you increase the performance, reliability, efficiency, and profitability of your spray process.

LEARN HOW THE LATEST SPRAY TECHNOLOGIES SAVE TIME, MONEY, AND RESOURCES

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