

# A&B PROCESS SYSTEMS



Partnering with the JBT A&B Process Systems Team for your hygienic and high purity stainless steel process piping needs

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# Why select JBT A&B Process Systems for your next (Hygienic-3-A or High Purity) stainless steel process piping installation needs?

Because of our experience and a sincere desire.  
“To serve as your Process Partner”

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The summary that follows identifies programs and project services that further illustrate the value added benefits of partnering with the JBT A&B Process Systems Team for your hygienic and high purity stainless steel process piping needs.

Over the last 40 years JBT A&B Process Systems has installed more than 6.0 million feet of process piping throughout the U.S.

Our installation team including welders, fitters, supervisors and project managers are all very familiar with the standards (3-A, USDA, FDA & BPE) that apply to hygienic/high purity process piping, equipment fabrications, process component selection and more, that insure that your system will comply with both regulatory as well as your own quality requirements.

As for project size, **our largest process piping installation exceeded 70,000 lineal feet.** Our field installation staff is **one of the largest dedicated hygienic piping providers in the U.S. and currently exceeds 85 team members.**

- Our **Safety Program** is a primary focus both internally as well as at remote project sites throughout the U.S.

JBT A&B Process Systems believes what is essential to our business growth and **sustainability is our investment into developing and protecting our most valued assets, our associates.**

JBT A&B Process Systems is dedicated to reaching the goal of achieving safety excellence and being recognized as a leader among others in the industry. A more complete summary of our Safety Program is available upon request.



- Our **Quality Program** – JBT A&B firmly believes in the principles and philosophy of Phillip B. Crosby, author of “Quality is Free”. We define quality as meeting our customer’s requirements – every time. Our depth of experience in every area of process flow is evident in the way we implement quality. Our underlying driving factor is Zero Defects – which is not just a motivational slogan, but also an attitude of commitment to prevention. Our commitment to do the job right the first time has become the foundation of our success and continued growth. A more complete summary of our Quality Program is available upon request.



With over 6.0 million feet of process piping going through our estimating department, **the estimating process** itself generates the following:

- Material lists that **simplify the procurement process.**
- Our estimating team assigns control numbers to each process-piping run as it relates to pipe size and lineal footage take-off. This information is then submitted to our site supervisors who **manage project progress from these control documents.** Details including status of pipe hangers, welds completed, walk-through inspection for clamps and gaskets, and final customer inspection allows us to have a “real time” assessment of our progress by line, by room, by process area and for the entire project. In the past, the last 10% of the project likely ran into 25% of the time on site. With this value added management tool, we no longer have to suffer through miscalculations relating to % complete.
- **Detailed Proposal Summaries** that allow for quick and efficient reviews. Our experienced estimating staff has the field experience that when combined with general estimating



procedures, addresses issues that often times are missed. Definitive inclusion and exclusion summaries leave little to the imagination and make the review and award process a much more comfortable and confident procedure for our prospects and clients alike.

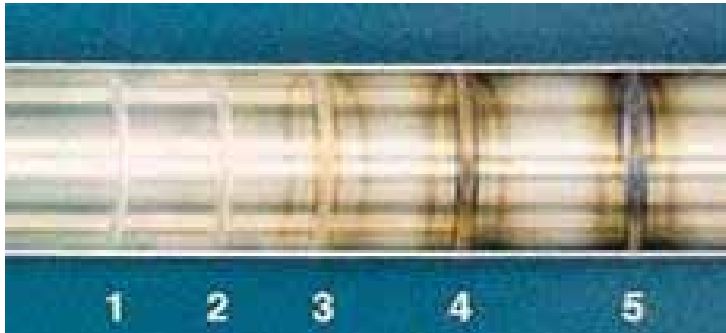


## Application of our Orbital Weld Technology wherever feasible.

This will include both “in-place” and “out-of-place” welds that will result in a more consistent and higher quality weld.

- **Higher quality inert purge gas** (99.998% purity as compared to standard argon quality @ 99.995% purity) for our welding requirements (stored in stainless steel duers) that provides for a higher quality resulting weld. Less carbide precipitation in the “weld and heat affected zone” that is evident via less discoloration. The illustration below identifies weld #4 as an acceptable weld per the AWS document # D18.1/D18.1M:2009 Specification for Welding of Austenitic Stainless Steel Tube and Pipe Systems in Sanitary (Hygienic) Applications.
- **Quality of completed welds** can be verified with availability of JBT A&B Video Boroscope technology when and where desired. Optional pricing is identified within our Time and Material Rates sheet provided upon request. JBT A&B provides an operator for placement of video probe for viewing by client assigned representatives(s).





- During the course of installing more than 6.0 million feet of process piping since 1973, our installation teams have identified and established **piping standards & practices** that allow for more flexibility as it relates to pipeline routings. One particular standard includes the application of one 90-degree elbow and one 45-degree elbow for any change in direction, which allows for subsequent piping runs through the same elevation without interference. This is a standard offering from A&B Process Systems that often times goes unnoticed.
- **Pipe Support System Designs.**
  - JBT A&B Process Systems has been a leader in ensuring that the pipe support system provides not only the necessary structural support, but that it also has hygienic qualities to prevent bacterial growth, and more. Our pipe support systems typically are constructed entirely of stainless steel with all joints seal welded to prevent the possibility of condensate accumulating within hollow support members.
  - We have experience with meeting the ever-growing need for seismic compliant designs.
- **Pneumatic Piping, Conduit and Cable Tray Systems** fabrication and installation. JBT A&B Process Systems offers custom fabrication and installation of complete stainless steel pneumatic and control wiring conduit and/or cable tray systems. From traditional stainless steel tubing interconnecting with Air Outlet Boxes (AOB's) and Air Junction Boxes (AJB's) to custom fabricated stainless steel cable tray systems that are integrated into the pipe support system. This pre-fabricated cable tray system, although somewhat more expensive, allows for an expedited installation timeline that can bring projects on-line quicker.
- **Project & Construction Management Structure.**
  - Our site supervisors and construction management teams have extraordinary capabilities as it relates to understanding the amount of work that needs to be accomplished within a given window of time, and how best to meet and exceed these milestones.



- Your primary point of contacts regarding project site activities will include our Project Supervisor who will be on-site for the full duration of the project and our Construction Manager who will be making periodic visits to the job site. **Our Twelve (12) Project Supervisors average in excess of 13 years of experience each within hygienic and high purity process piping construction projects.**

- In addition to the Project Management/Construction services team members, **we have Ten (10) lead men and more than 60 welder/fitter team members, thus establishing JBT A&B Process Systems as one of the largest and most experienced providers of hygienic and high purity piping installation services in the U.S.**

- Project Management - We have found that the smoothest transition from pre-job (estimating) status through construction is achieved by taking advantage of the knowledge our experienced estimators acquired during the estimating process. For that reason, **we have our estimators serve a dual purpose including direct orchestration of the estimating process through project management.** During the estimating process, they establish a deep understanding of

the project details and a relationship with the client that we have found results in a more seamless and efficient result.

- We are proactive as it relates to communications from the onset of a project, which allows for timely adjustments to be made when necessary. Building delays, equipment deliveries, and contractor congestion are all common occurrences on project sites, but when addressed with a sense of urgency and productive action plans, project schedules can be managed more effectively.

- JBT A&B Process Systems will also consider Staggered Shift Staffing when critical milestones warrant this type of action with night premiums and other related costs addressed at the onset of a project.

- Documentation – JBT A&B continues to provide organized and complete IQ (Installation Qualification) and OQ (Operational Qualification) supporting documentation. When specific documentation needs are not specifically identified, JBT A&B works with our clients to review an extensive list of standard and optional offerings surrounding documentation requirements.



- **Equipment Setting/Millwright Services.** JBT A&B's very talented construction services team is also very experienced with "picking and setting" a variety of large-scale process equipment, including a wide range of process vessels, field erected tanks, and industrial evaporation and dryer systems.
- **A&B Process Systems' additional services including;** process engineering, process automation & control systems, custom fabrication of vessels, process modules, platforms, transfer panels, ductwork and more allow for more flexibility in the field with regard to coordination of fabrication requirements and installation of this equipment. A&B's ability to provide a wide range of services related to your project makes for a more seamless and positive experience, saves time and money, and results in a better value and return on your project investment.





**COUNT ON JBT TO HELP PROTECT YOUR INVESTMENT**

JBT's greatest value in PRoCARE® services comes from preventing unexpected costs through smart, purposeful, and timely maintenance based on unmatched knowledge and expertise. PRoCARE service packages are offered as a maintenance agreement in various service levels, depending on your production and cost management requirements.



**JBT DIVERSIFIED FOOD & HEALTH**

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