



Water Treatment Portfolio

Hastelloy® Piping Installation for Sodium Hydroxide System

About Us

Since 1985, High Purity Systems has provided precision welding, quality piping installation and fabrication solutions to the industrial sector. High Purity Systems delivers value and responsiveness to meet the ever-changing needs of our clients. Expertise includes Class 100 Clean Room orbital welding, onsite piping installations from stainless steel to carbon steel, piping fabrication shipped nationally and custom prototyping.

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The Challenge

High Purity Systems' (HPS) fabrication services, clean system installations, welding capabilities, and extensive industry knowledge recently won our team a fabrication and installation project with a leading water and wastewater management service provider.

The customer, a general contractor working with a water and wastewater treatment plant, needed to install Hastelloy® piping for its sulfuric acid and sodium hydroxide systems. Neither the contractor nor the end user had much experience with this material, whose exotic nature posed huge risks of welding failures and added costs. Unable to find anyone capable of welding Hastelloy® pipe, the customer turned to the welding experts at HPS.

The Strategy

Not only did HPS have the experience and qualifications to work with this rare piping material, but we were able to adjust our project schedule to fit the customer's needs, as well as fabricate much of the work offsite to minimize safety risks and congestion on the project. HPS visited the customer's site to detail the piping, then fabricated as much as possible in our Manassas pipe fabrication shop, and lastly return to the project site for installation.

Using pipe cutting equipment and TIG welding machines, HPS installed 200 linear feet of the 0.75" Hastelloy® 40 pipe, and when complete our team pressure tested the entire installation to ensure that it met American Society of Mechanical Engineers (ASME) B31.3 power piping standards.

As a side note, the end user was challenged with numerous obstacles on their end before HPS even entered the picture - slow turnaround for submittals and RFI's combined with long lead times for parts and materials - which ended up delaying the project schedule from an original duration of eight weeks to an extended five-month timeline. HPS was able to provide flexibility for our customer, and through proactive dialogue and communication with the contractor, the designer, and the end user, we were able to execute the project in the most timely and efficient way possible.



The Result

HPS' previous experience and knowledge of Hastelloy® added value to the project and ultimately convinced the contractor to trust us with the job. After the successful installation, the contractor continued utilizing our technical expertise to help educate their team and the end user. We were proud that this job led to not just one, but many happy customers!

