

Aerospace Portfolio

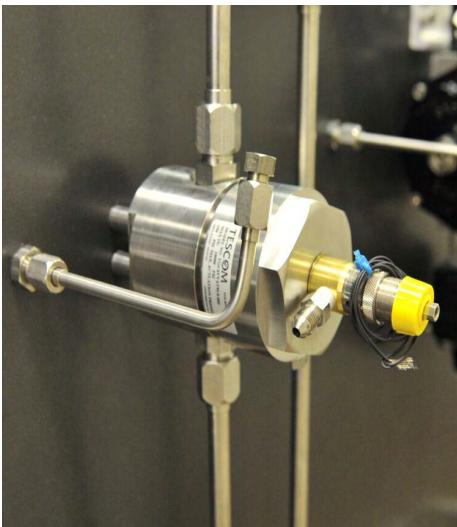
Ground Support Stainless Control Panels

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

Few industries are as demanding and exacting as aerospace, but High Purity Systems has proven itself to be a reliable, detail-oriented partner for critical ground support operations during a number of projects over the years. Another aerospace company recently approached us to provide four custom control panels for pressure and instrumentation at one of its ground support facilities.

The panels needed to recirculate and purge a critical fluid volume within a specifically designed configuration that would control and monitor volume, pressure, and flow rate. The customer sought out HPS because its team knew of our previous aerospace experience and our reputation for turning around quality work under tight deadlines.

The Strategy

To begin the custom fabrication, the customer provided HPS with piping schematics and specifications, which called for our team to create a custom 3D layout to meet the customer's requirements. Once the layout was approved, HPS utilized our tube bending and flaring equipment to fabricate the control panels out of customer-supplied 6061 aluminum mounting plates and 316L stainless steel tubing and fittings.

In order to match the facility's existing panels, we applied a Tiger Drylac powder coat finish to the aluminum pieces before installing them with a combination of compression fittings, O-ring boss fittings, JIS 37° flare fittings and flare adapters, and MS and AN fittings.

After completing the panels, our fabrication team pressure tested the panels with National Institute of Standards and Technology (NIST) certified gauges and torque fittings to ensure compliance with customer specifications.

The Result

The final products were a 3'x4' recirculation pump purge panel, a 3'x4' differential pressure purge panel, and a set of two 6'x4' pressure and instrumentation panels. Our fabrication team turned this project around just four weeks after receiving the materials from the customer. The project demonstrated our ability to manage complex layouts and deliver high quality results on a strict timeline.

