



Oil & Gas Portfolio

## Assembly & Installation of Automated Control Boxes for Pressure Reducing Stations

### About Us

HPS was founded in 1985 and has grown from a small enterprise to a leading industry supplier outfitted with a permanent Class 100 / Class 1000 Clean Room Certification. Services offered include custom fabrication, polishing services, detailed 3D CAD drawings, and analytical testing. Join our roster of customers that include NASA, Lockheed Martin, MedImmune, and others - experience HPS.

### Contact Us

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### The Challenge

One of our customers, a 165-year veteran utilities provider, was working on a facility improvement plan across three different East Coast locations. Already familiar with HPS' reliability, pricing, and quality from working with us on past projects, the customer turned to our team for help transitioning from a manual gas pressure relief system to one that was more automated and up to date.

### The Strategy

Upon project initiation, the customer supplied us with piping and instrumentation diagrams (P&ID's) and specifications but, as is common with projects of this nature, also asked us to assist with layout drawings. Our technical team immediately began brainstorming to develop the best solutions to address their project plans, and HPS happily submitted, modified, and ultimately received approval for our drawings of the final fabrication.

During the project we installed a total of three communication boxes and three automated control boxes to eliminate the need to manually close a valve to reduce pressure in the gas supply line — all 2 feet x 2 feet x 4 feet. One of each box was installed throughout their three East Coast facility locations. The control boxes were connected to existing gas lines through 3/8" stainless steel 304 tubing. We also installed gas regulators, pressure transmitters and gas gauges during the assembly for each control box as well as the installation of the electrical signal lines that allowed the communication box to "talk" to the control box at each location.

Our team installed solar panels that charged internal batteries to ensure the automated communication system remained connected to the main terminal. After completion, we pressure tested each of the control boxes to certify that they met customer specifications.

### The Result

From start to finish, this project was completed well within the pre-determined timeframe. The customer told us they appreciated our prompt attention and return of information throughout the project, as well as our high quality of work. Let High Purity Systems provide you with the same reliability and quality on [your next project](#).

