OPTIMATION

High Pressure Specialists
Application

HIGH PRESSURE CHALLENGES ARE OUR SPECIALTY

Optimation's high pressure specialists have the knowledge and background required to tackle the most difficult challenges. Our team includes mechanical and electrical engineers and designers, skilled trades, including electrical and piping journeymen, along with controls and automation experts.

High Pressure Test Systems and Panels

We have designed, built and commissioned a variety of high pressure test systems and panel applications, serving several industries, particularly oil and gas. As an example, high pressure systems can simulate depth in a well – allowing companies to verify that their equipment can handle the harsh environment before sending it downhole.

From Concept to Completion

Optimation can design a test assembly based solely on your requirements for the end product; no preliminary designs are required. In this way we can provide a full service solution, from your concept to the completion of the high pressure application.

The Right Tools

Our team has the tools to handle up to 60,000 psi. We have the mechanical engineering, process engineering, electrical engineering and skilled trades capabilities to specify and work with all high pressure components, including Process Piping, Pumps, Valves, Check Valves and Rupture Disks.

Documentation to Your Requirements

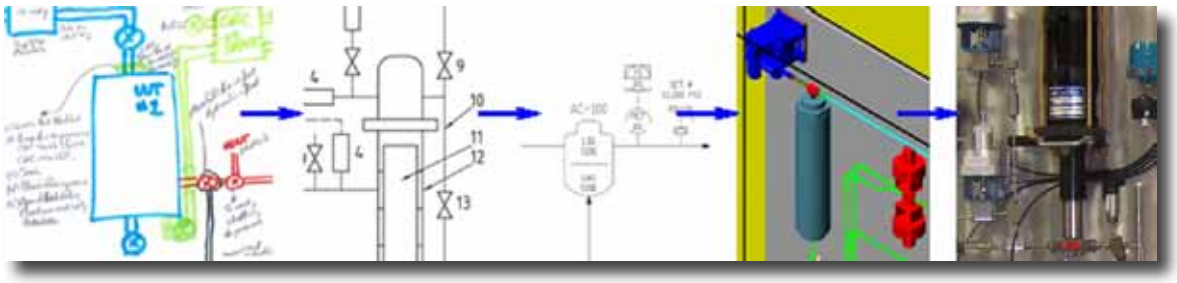
Because of our wide range of expertise, Optimation is sensitive to the critical nature that system documentation plays in industries requiring high pressure applications. Our documentation process begins before the system is built. Optimation creates comprehensive requirements specifications and design descriptions that detail the hardware, software, and panel commissioning.

When the pressure is on, who are you going to turn to?

The Right Team

- Mechanical Design: flow and control diagrams, piping detail, 3D equipment layout and site model drawings, and high pressure component selection
- Electrical Design: instrumentation selection, control panel design, and detailed wiring diagrams
- Application Software: functional requirements, architecture, acceptance test documents, software modules
- Fabrication: pipe fitters, millwrights, welders, electricians, instrumentation technicians, sheet metal fabricators, and control panel builders
- Installation: legacy system demolition, equipment/ utility site prep, equipment installation, debug and commissioning, and acceptance testing

39,000 psig water test pressure on gauge in our pressure test room



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Industrial Applications ... from Concept to Completion

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