

Consolidated

a Baker Hughes business

Consolidated™ EVT™ PRO 2.0

Electronic Valve Tester



Helping You Comply With Global Safety Standards

Protection from Harmful Chemical Releases

Global Safety Standards like OSHA's Process Safety Management (PSM) standard was published to help minimize the consequences associated from a catastrophic release of toxic, reactive, flammable, or highly explosive hazardous chemicals. This standard covers several areas, specifically relief and vent systems and devices. It requires that written procedures, inspection and testing, [and] appropriate job skills be deployed, [and that] records and management of change be in place. Failure to do these things may result in severe consequences.

Failure to comply with OSHA 29 CFR 1910.119

Process Safety Management requirements is one of the most frequent infractions. There are several reasons for this: deficient pressure relief devices, inadequate documentation, and lack of pressure relief information, procedures, or training and associated documentation.

End-User Feedback:

"In the past I had to know where my test records were located to demonstrate compliance to our local inspector; this is very important for the OSHA Process Safety Management requirement. With ValvKeep and EVT PRO, my files are linked and updated so I have quick access to them. Several months ago an inspector was at my plant, standing next to me, asking for the paperwork on the safety relief valves. Using ValvKeep I was able to get the reports, show the inspector that the valves were all certified and had been serviced within the service guidelines."

The Compliance Solution

By integrating with Baker Hughes' ValvKeep™ and EVT PRO 2.0 lets you effectively manage the OSHA requirements. Since you can use the device to test any brand of pressure relief device, you don't need to manage multiple test suppliers. EVT PRO 2.0 and ValvKeep put all your documents in order, so test reports, procedures and other related documents are always available to meet compliance requirements. You are better prepared for audits and lessen the odds of receiving citations and penalties. EVT PRO 2.0's in-place functionality lets you keep plant operations going while it tests your valves.



How EVT PRO Works

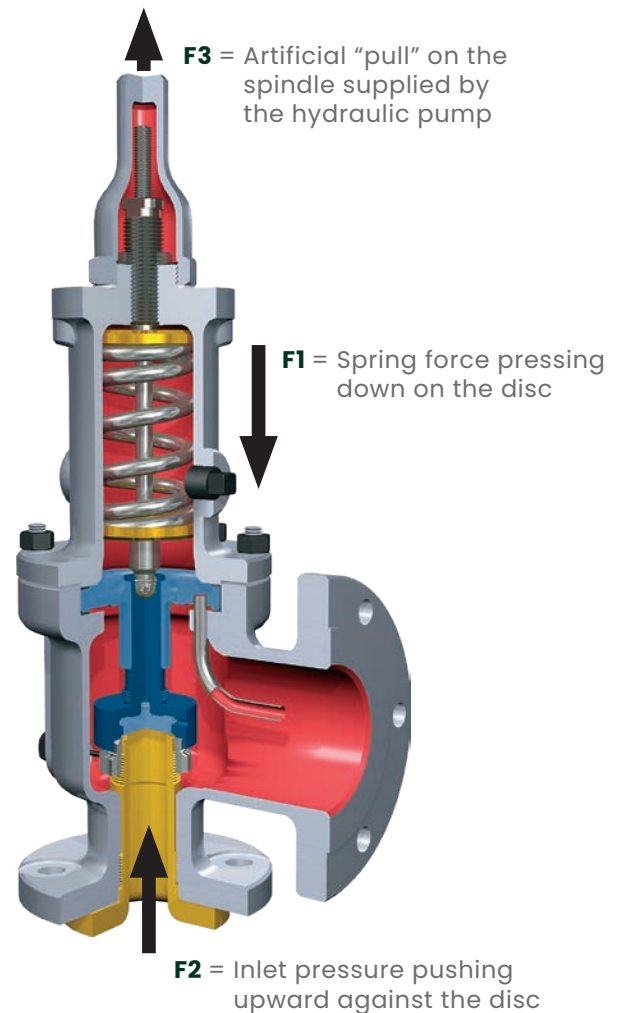
Force Balance Analysis:

$$F3 + F2 = F1$$

Normally, with the pressure relief valve online, the much stronger force of its spring— $F1$ —is all that is required to prevent system inlet pressure— $F2$ —from forcing the valve open. However, should $F2$ increase beyond the operational limit of the system, the valve will first simmer and then discharge.

To prevent the valve from discharging during the EVT PRO test, the Baker Hughes-trained service technician introduces just enough pull on the spindle— $F3$ —to balance the force of the spring. This causes the disc to only crack open or simmer.

At this point the GTC Technician can read the set pressure from the graphic display of the EVT PRO and determine if it is set properly.



EVT PRO and ValvKeep

Wide Scope of Documentation

Record keeping is important to providing proof of your efforts to comply with Global Safety Standards, OSHA included. The scope of documentation is wide, and the more accurately records are maintained, the better it is for audits. Using EVT PRO electronic diagnostics and ValvKeep software will lessen the stress of a Safety Inspection inspection and reduce the odds of receiving citations and penalties. As one well known safety organization, OSHA states, "OSHA's primary goal is correcting hazards and maintaining compliance, rather than issuing citations or collecting penalties."



EVT PRO 2.0 Technology

Some of the technology in the new EVT PRO 2.0 is a new time saving and patent pending claw clamp with micro-controlled fixture for quick connection to valves, a super-charged battery system for longer testing times, and advanced proprietary software for testing Baker Hughes valves and competitors.



Exclusively Available Through Your Local GTC

More than 125 Years of Expertise

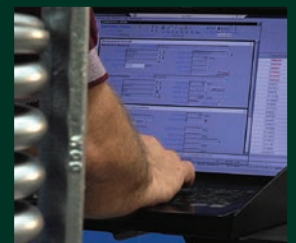
Consolidated pressure and safety relief valves have been available for more than 125 years. The EVT PRO 2.0 diagnostic tool is the most technologically advanced Consolidated field test device ever. EVT PRO testing meets high standards for quality and accuracy.

Consolidated's Green Tag Center (GTC) network is the only place you can access the advanced EVT PRO 2.0 testing technology. It tests any brand or type of safety or pressure relief valve you have thereby saving you time in coordinating testing suppliers. Make one call to your neighboring GTC and your headaches will be solved. Your local GTC has the EVT PRO electronic diagnostics, ValvKeep valve management software and factory-trained and certified technicians to meet your testing and compliance needs.

Green Tag Center Network



**Our GTC Network Consists of More Than
80 Facilities Located in More Than
30 Countries Worldwide**



Integrated Performance Solution

Asset Management ○

ValvKeep

Valve Management and Maintenance Software

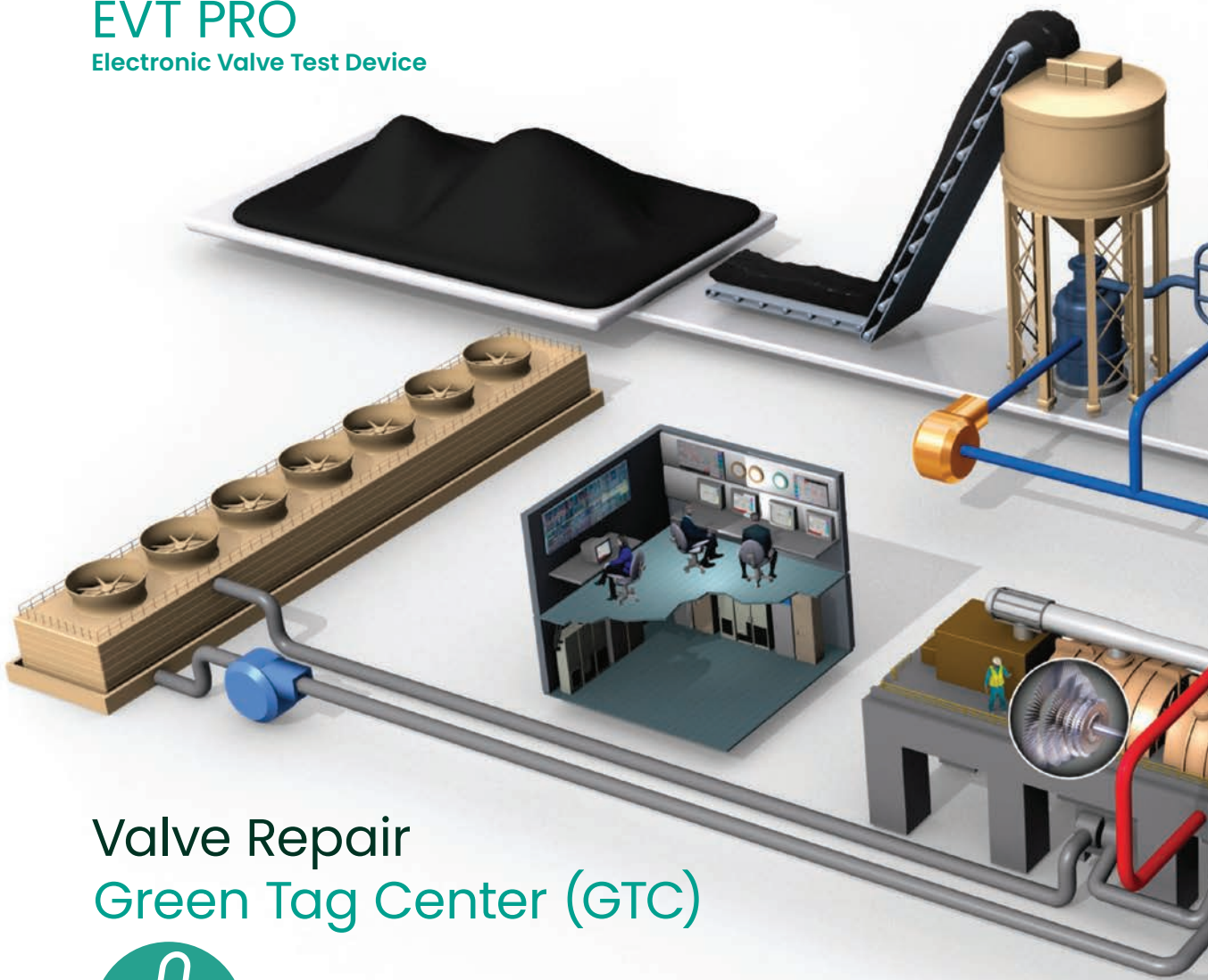


Compliance Testing ○

EVT PRO

Electronic Valve Test Device

Pressure Relief Valves

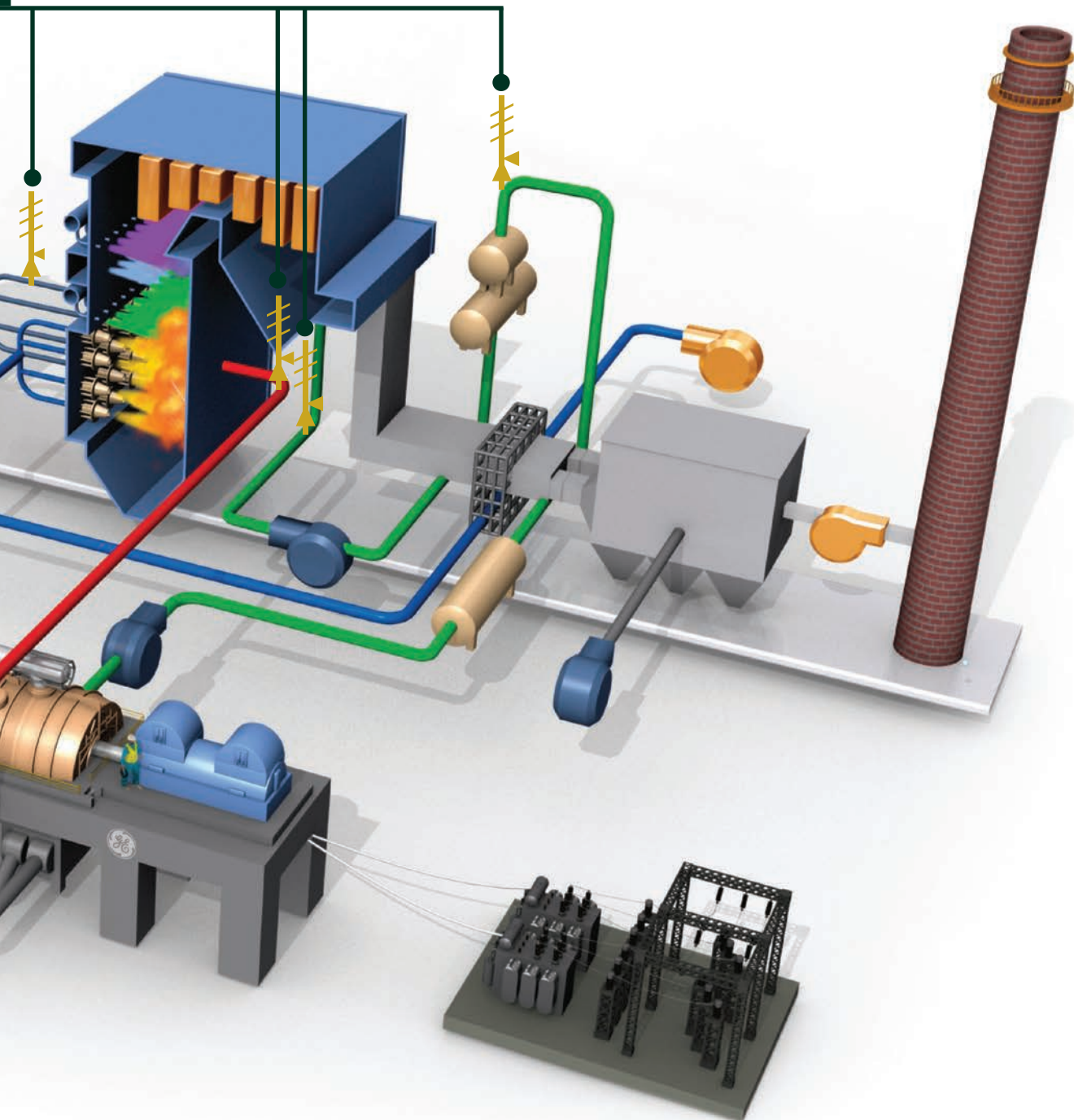


Valve Repair
Green Tag Center (GTC)



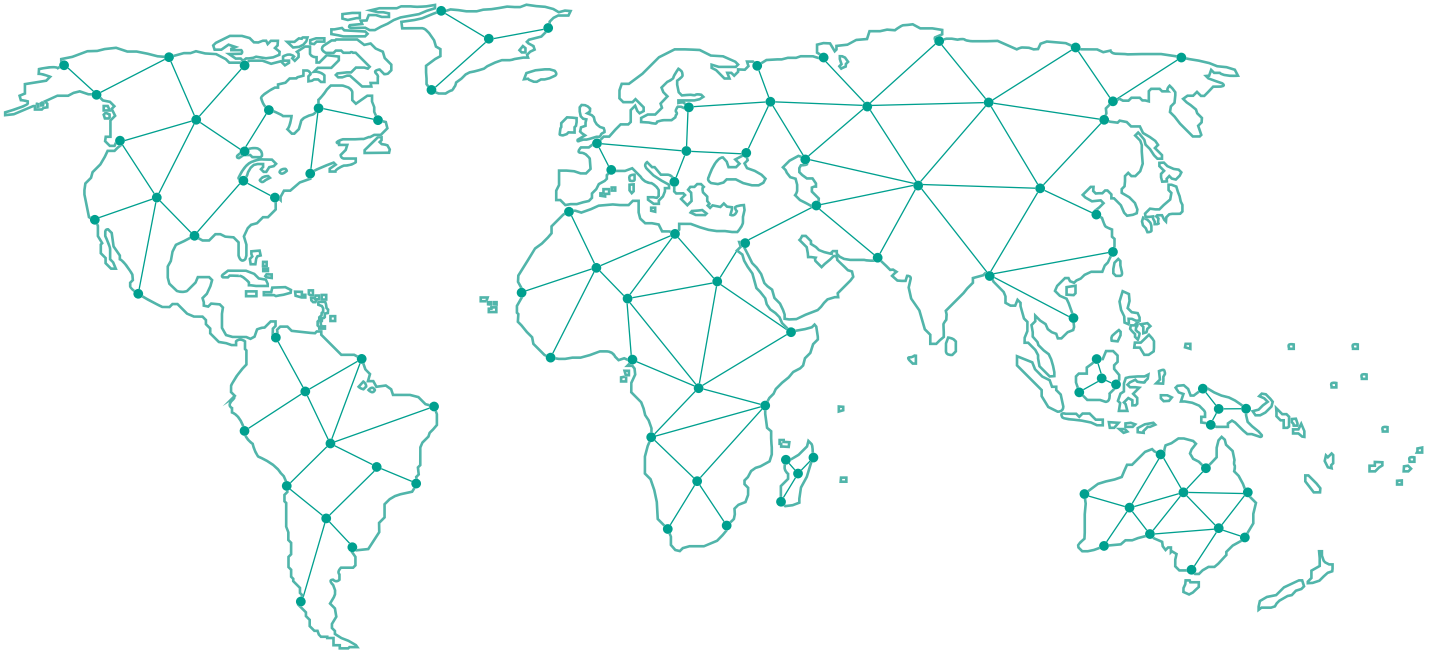


Coal-Fired Power Plant



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