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CLIMAX | CALDER: PRODUCT BROCHURE

PERFORMANCE UNDER PRESSURE



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CALDER VALVE INSTITUTE

CALDER has been teaching the fundamentals and fine points of valve testing operation for as long as we've been inventing and building the systems. CALDER institute offers:

- Training Institutes in Portland OR, Houston TX, Manchester UK, Duren Germany, and Dubai UAE, among others
- Safety training
- Machine set up and operation
- Technical tips and tools to improve operational performance and efficiency
- Hands on training and valve testing skill development

Whether it's a regularly scheduled course at one of our CALDER Institutes, or a custom curriculum conducted at your facility, your valve test operators will benefit from courses developed by the most experienced and respected professionals in the business.

CALDER CARE PROGRAM

Preventative maintenance and service package includes:

- **Parts Replacement Guarantee** - All parts replaced for the term of the package
- **Technical Assistance by Phone** - A CALDER Care Hotline for 24-7 US based expert advice from repair professionals
- **On-Site Preventive Maintenance** - Yearly PM visit by a Certified CALDER Service Technician
- **Extended Warranty Coverage** - CALDER is the *only* company in our industry with a standard 2 year warranty and offering extended warranty programs out to 5 years



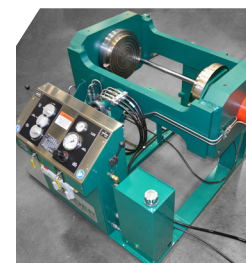
WHY CHOOSE CALDER

- The modular, highly configurable and field-upgradable design of the new CALDER tester platform is the most flexible and cost-effective way to manage all your valve testing requirements. It can grow and evolve your business
- The new CALDER test systems are designed to be more accurate and precise than other comparable products
- Unique to the valve testing industry, every CALDER component is OEM certified to the maximum pressure specification of the system, for enhanced safety, quality and durability
- CALDER offers users the ability to simultaneously test multiple valves with one system
- Unmatched in the industry, all CALDER systems are backed by a 2 year warranty
- CALDER has global reach and local support through CLIMAX's vast world-wide network
- CALDER offers a complete line of Valve Repair Machines for lapping, grinding and specialized valve machining operations
- CALDER offers a full portfolio of Test Barriers and Hydraulic Seal Clamps among other products
- CALDER offers SmarTEST™ intelligent data acquisition, analysis and control systems for use with our testers
- Custom turn-key system design services from the most experienced engineers and valve test experts in the business
- **Outrageously** good customer service. We are available 24/7!
- End-to-End Solutions; from products, consulting, engineering, custom design, training, start-up, after-sale service, spare parts, repair, and rentals, CALDER offers unmatched value in our industry
- All CALDER products are CE certified and manufactured in our ISO 9001 certified factory
- All CALDER products are proudly made in the USA



HPC HydroPro™ TEST CONSOLE

The HPC is the most versatile and user-friendly tester in the industry, capable of performing a wide variety of valve tests when paired with a CALDER hydraulic clamping system or even blind flanging. Every component in the tester is OEM-certified to the maximum allowable working pressure of the system. This is by far the most flexible and cost-effective way to manage your valve testing program.



USV HydroPro™ UNIVERSAL STRAIGHT VALVE TESTER

Clamps and seals straight-bodied valves for pressure testing. Capable of hydrostatic tests up to 9,700 psi and low-pressure air tests up to 125 psi.* Our unique tilting feature rotates clamped valves 90° from horizontal to vertical, ensuring removal of all air prior to pressurizing the system. Our patented Easy-Out™ Seal Plate Holders allow quick change-out of seal plates from flanged to other valve end type connections without the use of special tools, bolts, nuts or gaskets.



UVF HydroPro™ UNIVERSAL FLANGE VALVE TESTER

Clamps and seals flanged valves for pressure testing. Capable of hydrostatic tests up to 9,700 psi and low-pressure air tests up to 125 psi.* Our unique tilting feature rotates clamped valves 90° from horizontal to vertical, ensuring removal of all air prior to pressurizing the system. Paired with an HFS this is the best way to test API valves, where cross body pressure on the valve is not an option.



HFS HydroPro™ HYDRAULIC FLANGE SEALS

Clamps and seals flanged valves for pressure testing and eliminates all those blind flanges. Paired with the HYDROPRO™ Universal Flange Valve Tester, it is capable of hydrostatic tests up to 9,700 psi and low pressure air tests up to 125 psi*, enabling the user to test API valves that have multiple flanges as well as valves that aren't straight, like elbow valves, 90's and T's.



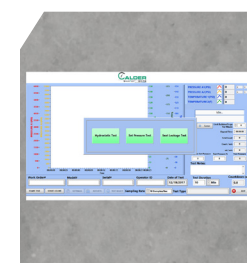
SAFETY RELIEF VALVE TESTER

The Safety Relief Valve Tester performs SRV set pressure and seat leakage tests. Our unique 'J' tube design allows for a free flow of air or water from the source to the SRV being tested providing a cushion of air under the SRV seat to prevent seat damage. The control panel is ergonomically designed 90 degrees from the clamp fixture to provide splash shield partition between the operator and the clamp table.



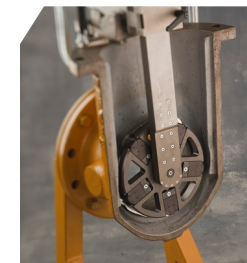
TAT Turn-Around-Tester™

Designed for easy transportation to job sites making it ideal for valve servicing companies or plant turnarounds, eliminating the need for taking valves back to the shop. The self-contained flanged valve testing system allows the operator to perform valve testing in a non-traditional environment. Capable of hydrostatic tests up to 9,700 psi and low-pressure air tests up to 125 psi.* Complete with clamp fixture and control console, the Turn-Around-Tester™ is a one-stop shop for valve testing on-site.



DAAS SmarTEST™ DACS SmarTEST Plus™

The DAAS captures the performance of your valve test digitally and produces test reports and data files. The DACS automates the valve testing process for guaranteed repeatability. Built-in Wi-Fi capability allows for easy and secure sharing of data and automatic emailing of test reports and data files. The variable sample rate provides a high-density data stream which can be adjusted for short or long duration tests. This rugged splash-proof (IP67) unit is ideal for industrial valve testing environments.



VALVE REPAIR MACHINES

Lightweight for easy handling and installation, our valve grinding and lapping machines span working ranges for gate valves from 1.3 to 39.4 inches (32 to 1000 mm). You can quickly change grinding disks and adjust the grind pressure during operation. We also have many specialty and custom products for valve repair applications. Give us a call, there's no job we can't do!



SRV CONTROL VALVE COMBO TESTER

The combination valve tester (CVT) family will support safety relief valves with flanges from 0.5 to 12 inches (12.7 to 304.8 mm) and control valves from 2 to 12 inches (50.8 - 304.8 mm). The patent-pending pressure-sensing safety interlock prevents releasing the valve while under test pressure. This universal platform will test gas valves up to 5,400 psi (372 bar) and hydrostatically test control valves up to 9,700 psi (669 bar). When paired with the HydroPro™ console and a SmarTest™ system the operator will have the ability to support a wide range of applications throughout their facility.