

## ROBUST. EASE OF USE. STATE OF THE ART.

The CALDER SAFETY RELIEF VALVE TESTER can perform safety relief valve tests with unsurpassed quality and ease of use.



### ROBUST

All parts are designed to work at maximum specified testing pressure which allows you to perform all your tests with confidence.

Heavy-duty console walls built with 12 gage steel protects internal components from damage and allows for use in an industrial environment.

ISO 9001 certified ensures manufacturing to the highest quality standards.

CE certified for use in the European Union or any country where CE certification is required.

Safety interlock will not allow the operator to release the hydraulic clamp pressure while the valve under test is pressurized.

### EASE-OF-USE

Hydraulic clamping control panel is conveniently located at the clamp fixture for quick and secure valve positioning and clamping.

90 degree control panel location provides a splash shield between the operator and the clamp table.

Viewing window allows observation of the valve during the test process.

Intuitive control panel layout makes performing a test procedure efficient and easy for the operator.

Extensive operating manual contains easy to follow test procedures.

Only shop air, water, and a high pressure gas source needed for functionality.

### STATE OF THE ART

Unique J-tube design allows for free flow of air or water from the source to the valve being tested providing a cushion of air or water under the valve seat to reduce seat damage.

Test vessel option provides quick water fill and pressurization which allows the operator to test valves faster.

Nickel plated steel seal plates provide durable corrosion resistance.

Quick-connect test pressure gauges can be removed easily to calibrate or change out gauges quickly.

# 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



# CALDER SPECIFICATIONS

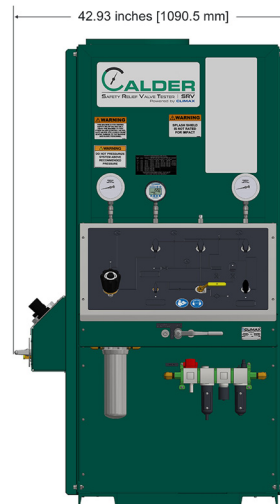
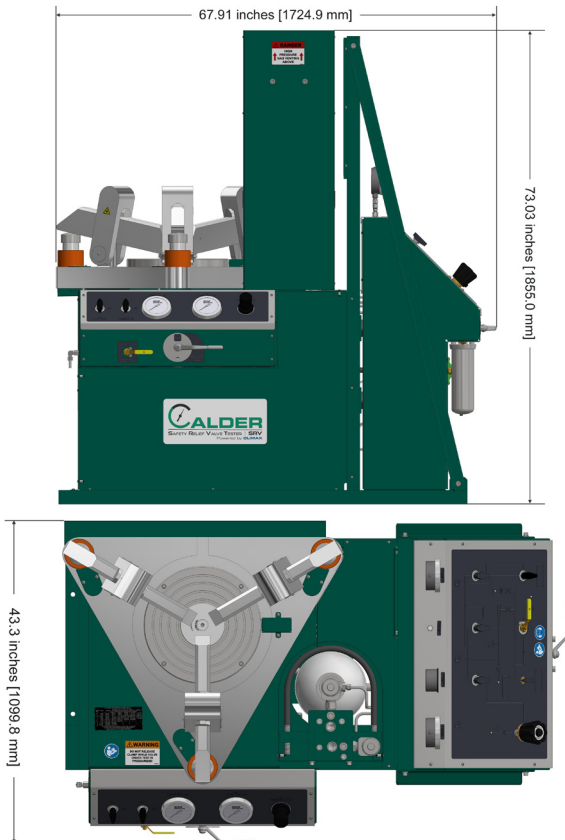
SRV-3K				
Valve Size (nominal) Inch (mm)	Maximum Test Pressure PSI (Bar)			
	600 PSI (41 Bar)	1000 PSI (69Bar)	2000 PSI (138 Bar)	2700 PSI (186 Bar)
.75 (19.1)	✓	✓	✓	✓
1 (25.4)	✓	✓	✓	✓
1.5 (38.1)	✓	✓	✓	✓
2 (50.8)	✓	✓	✓	✓
3 (76.2)	✓	✓	✓	✓
4 (101.6)	✓	✓	✓	✓
6 (152.4)	✓	✓	✓	
8 (203.2)	✓	✓		
10 (254)	✓	✓		
12 (304.8)	✓	✓		
Specifications	Hydraulic Clamping: 90 tons (81.6 tonnes)			
	Approximate overall dimensions: 65 L x 41 W x 73 H inches (1651 L x 1041.4 W x 1854.2 H mm)			
	Approximate machine weight: 2,500 lbs (1,134 kgs)			
	Approximate shipped weight: 3,000 lbs (1,361 kgs)			

SRV-6K						
Valve Size (nominal) Inch (mm)	Maximum Test Pressure PSI (Bar)					
	600 PSI (41 Bar)	1000 PSI (69Bar)	2000 PSI (138 Bar)	3000 PSI (207 Bar)	5000 PSI (345 Bar)	5400 PSI (372 Bar)
.75 (19.1)						
1 (25.4)						
1.5 (38.1)						
2 (50.8)	✓	✓	✓	✓	✓	✓
3 (76.2)	✓	✓	✓	✓	✓	✓
4 (101.6)	✓	✓	✓	✓	✓	
6 (152.4)	✓	✓	✓			
8 (203.2)	✓	✓				
10 (254)	✓	✓				
12 (304.8)	✓	✓				
Specifications	Hydraulic Clamping: 90 tons (81.6 tonnes)					
	Approximate overall dimensions: 65 L x 41 W x 73 H inches (1651 L x 1041.4 W x 1854.2 H mm)					
	Approximate machine weight: 2,500 lbs (1,134 kgs)					
	Approximate shipped weight: 3,000 lbs (1,361 kgs)					

**Power required:**

Shop compressed air, 40 SCFM at 10 - 150 PSI (6.9 - 10.3 bar)  
Water supply, 30 - 70 psi (2.1 - 4.8 bar) - for vessel option only

**Dimensional Drawings**



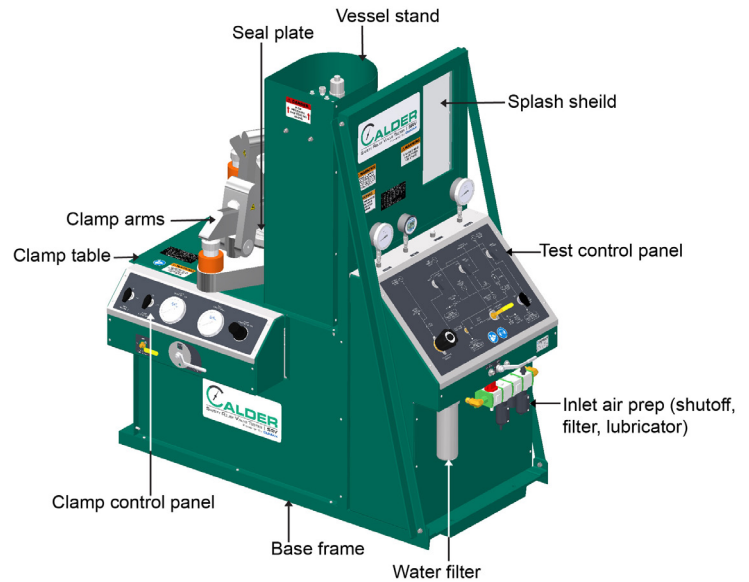
All dimensions should be considered reference. Contact your Calder Representative for precision dimensions. Specifications are subject to change without notice. There are no systems or components on this machine that are capable of producing hazardous EMC, UV or other radiation hazards. The machine does not use lasers nor does it create hazardous materials such as gasses or dust.



# CALDER SRV CONFIGURATIONS

To configure your **SAFETY RELIEF VALVE TESTER** simply select from the options you need then contact your CALDER representative.

The SAFETY RELIEF VALVE TESTER comes standard with hydraulic clamping with 10,000 PSI (689 bar) rated components and plumbing, air-operated hydraulic pump rated to 10,700 PSI (738 bar), and preset to 9850 PSI (679 bar), hydraulic clamping cylinders, nickel plated steel seal plates, analog clamp pressure gauge, digital test pressure gauge, hydraulic reservoir, air regulator kit, quick water fill inlet line, splash shield, hydraulic clamping chart and operators manual.



## SAFETY RELIEF VALVE TESTER

Model	Part Number	Vessel*	No-Vessel
SRV-3K	88845	√	
	88846		√
SRV-6K	88405	√	
	88406		√

\*Test vessel: ASME phenolic coated, 3,000 PSI (206 bar) or 6,000 PSI (413 bar) for water testing. Vessel includes, relief valve, pressure gauge, and assorted fitting / valve

## Accessories for use with SAFETY RELIEF VALVE TESTER

### DOT Bottle Assembly

2,700 PSI (186 bar), Max supply pressure 82488  
 5,400 PSI (372 bar), Max supply pressure 85758



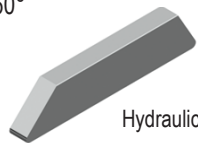
DOT Bottle Assembly

### Gas Compressors\*

3,000 psi, 5 HP, 460 v, 3 phase, 60 Hz 82487  
 6,000 psi, 7.5 HP, 480 v, 3 phase, 60 Hz 88860

### Hydraulic Clamp Arms (sets of 3)

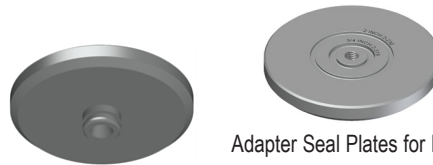
End type 45° / end type 60° 88852  
 End type 30° / end type 60° 88853  
 End type 20° / end type 60° 88854



Hydraulic Clamp Arm

### Adapter Seal Plates for Flanged SRV's

Valve size - .75 & 1.5 inches (19.1 & 38.1 mm) 88569  
 Valve size - 1 inch (25.4 mm) 88570



Adapter Seal Plates for Flanged SRV

### Adapter Seal Plates for NPT SRV's\*

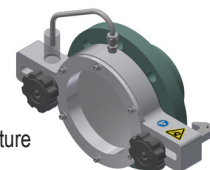
Thread - .5 inch (12.7 mm) 88681  
 Thread - .75 inch (19.1 mm) 88682  
 Thread - 1 inch (25.4 mm) 88683  
 Thread - 1.5 inches (38.1 mm) 88684  
 Thread - 2 inches (50.8 mm) 88685  
 Thread - 3 inches (76.2 mm) 88686



Adapter Seal Plates for NPT SRV

### Leak Detection Fixture (API 527 Compliant)

Nominal valve size range 2 - 2.5 (50.8 - 63.5 mm) 89051  
 Nominal valve size range 3 - 3.5 (76.2 - 88.9 mm) 89065  
 Nominal valve size range 4 - 5 (101.6 - 127 mm) 89066  
 Nominal valve size range 6 - 8 (152.4 - 203.2 mm) 89067  
 Nominal valve size range 10 - 12 (254 - 304.8 mm) 89068



Leak Detection Fixture

\*Other compressors, gas boosters, seal plates are available upon request - call your sales representative for more information.

# CALDER VALVE INSTITUTE AND CARE PROGRAM

## 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 VALVE 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.



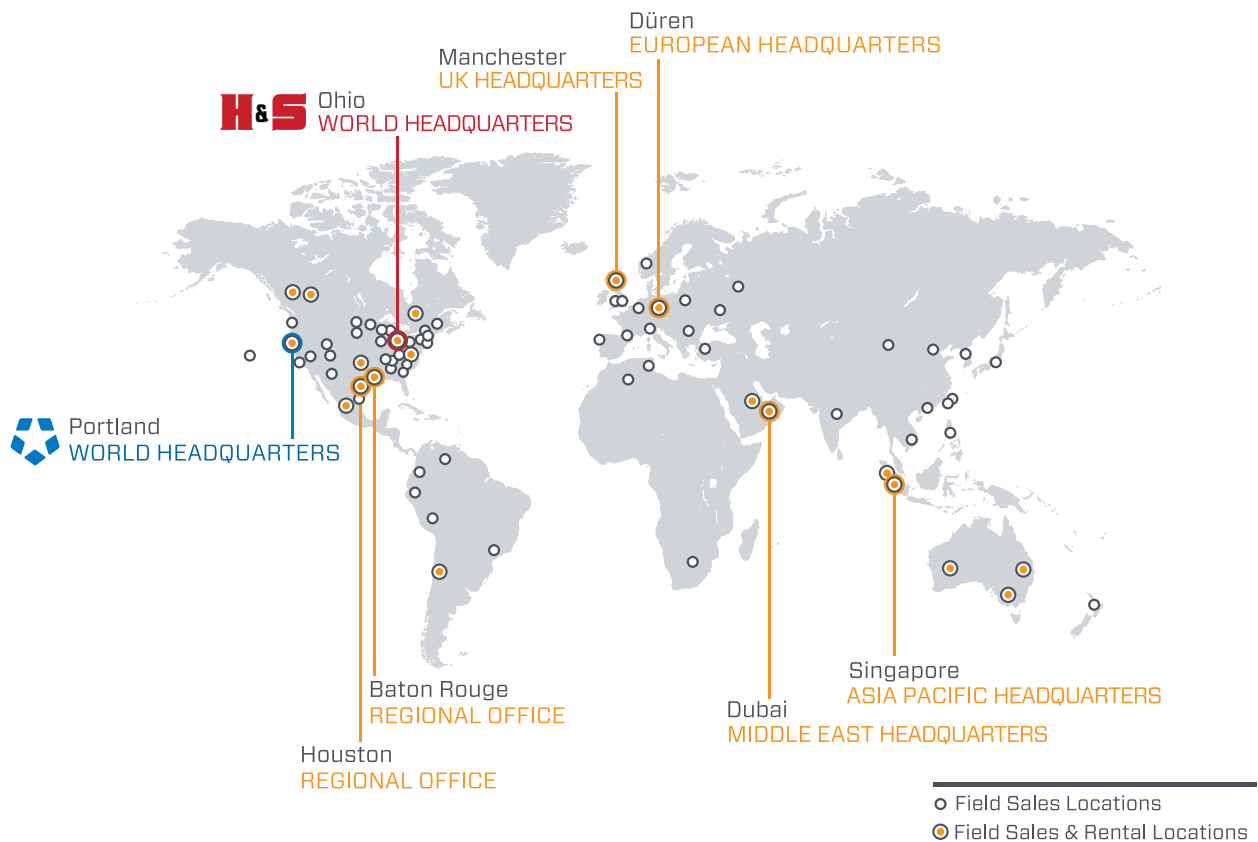
## CALDER CARE™ PROGRAM

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!



# GLOBAL LOCATIONS



## Call CALDER for:

### RENTALS

On selected models. With 20+ worldwide rental depot locations, you are never far away from a CALDER system.

### ON-SITE TRAINING

If you need training or on-site consultation, we're famous for it!

### CUSTOM PROJECTS

Custom turn-key system design services from the most experienced engineers and valve test experts in the business!

Connect with us:    

### CLIMAX World Headquarters - USA

Address: 2712 E. 2nd St, Newberg, Oregon 97132  
Tel: +1 503 538 2185  
Fax: +1 503 538 7600  
Email: [info@cpmt.com](mailto:info@cpmt.com)

### H&S World Headquarters - USA

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Tel: +1 330 336 4550  
Fax: +1 503 538 7600  
Email: [info@hstool.com](mailto:info@hstool.com)

### Asia Pacific Headquarters

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Fax: +65 6801 0699  
Email: [info@cpmt.com](mailto:info@cpmt.com)

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Fax: (+49) (0) 2421 9177 29  
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Tel: +971 4 321 0328  
Email: [info@cpmt.com](mailto:info@cpmt.com)

### United Kingdom Headquarters

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