











Calibration Tools & Software



Ready-to-Use Calibration Solutions

Pump Systems Designed for Your Specific Requirements

METEK offers a variety of solutions for pressure generation and measurement. Our line of products for pressure generation includes everything from small pneumatic hand pumps to a precision, hydraulic pressure comparator capable of generating up to 15 000 psi/1000 bar/100 MPa.

All of our pumps may be ordered as part of a Pump System, complete with a Crystal Reference Indicator and delivered in a sturdy carrying case with custom insert.

Key Features & Options

- ► Easy to use fine adjustments.
- ► CPF Fittings and Hoses.
- ▶ Oil or water compatible.
- ▶ Wide pressure ranges.

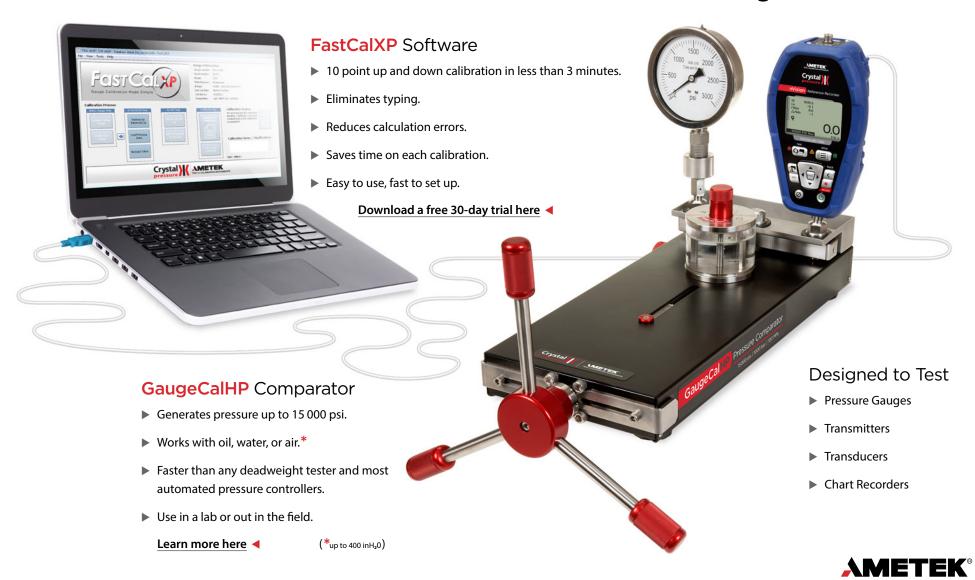




U.S. Patent No. 8,794,677

A Better Way to Calibrate

Automate Your Calibrations: 7 to 10 Times Faster than a Deadweight Tester



Precision Calibration

GaugeCalHP is a self-contained, precision **Connection Fitting Relief Valve** hydraulic pressure comparator intended for the With easy alignment swivel capability. No Mess Drip Tray calibration of pressure gauges, transmitters, sensors, Captures fluid from bleeding the system. and safety valves rated up to 15 000 psi / 1000 bar. You may fill the comparator with your choice of **Pivot Manifold** Fine Adjust Easy to use, even at 15000 psi. Manifold rotates for testing large size gauges. water or oil. Reservoir Clear, removable reservoir with a fill line. The GaugeCalHP is much faster than deadweight testers and most automated pressure controllers; and it's so quick and easy to use, it's ideal for calibrating those low cost gauges that are often Travel Indicator Shows the amount of stroke available. overlooked for ISO9000 compliance. Pump System **G** Learn more here For easy mounting to a table top. Removable Handle Assembly

For transport. Includes captive screw.



Portable Hand Pumps

T-600 Series is a lightweight and portable hydraulic hand pump, specially designed for high pressure applications. A fine adjust allows precise control of pressure, while a vent valve provides guick and positive shut-off and pressure release. The pump is compatible with petroleum-based oils or hydraulic fluids.

Pump Systems C H

- ► Two outlet ports.
- Large reservoir.
- ► Easy-to-use fine adjust .
- Generates up to 5000 psi/350 bar.

Learn more here ◀



T-900 Series pneumatic pressure pump features an extended range fine adjust for precise control of pressure. A built-in relief valve and dual pressure output enable safe and simple operation. The T-965 and T-975 are available with a button valve, making them capable of switching easily from pressure to vacuum generation.

Pump Systems A B H







Lightweight, compact design.

► Two outlet ports.

Adjustable stroke.

▶ Generates up to 580 psi/40 bar and vacuum.

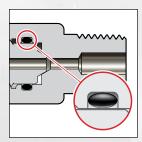
Learn more here



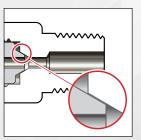
FITTINGS FOR LIFE

Crystal Pressure Fittings are machined in high-strength 316 Stainless Steel to operate with a 4:1 Safety Factor at 10000 psi/700 bar. A self-venting weep hole adds peace of mind, alerting you by leaking gas or test fluid before you fully disconnect from a pressurized system. Every pump and comparator is available in a CPF Version.

2 Ways to Seal



CPF to CPF O-ring seal. Finger-tight up to 10000 psi.

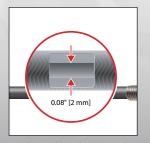


CPF to non-CPF metal seal. Use a wrench to create a seal.

Flexible, Lightweight Hose



Minimum 1" (2.5cm) bend radius, even under pressure.



Small inner hose diameter reduces pumping effort and saves time.



Bench-mount Pressure Sources

PO14 hydraulic jack pump is designed for high pressure oil applications. Its small size and light weight makes it a sensible, rugged and portable pressure generating solution.

Pump System (E)

- ump system **G**
- ► Generates 10 000 psi/700 bar.
- ► Small, and light weight.
- ► Easy-to-use fine adjust.
- ► Four pressure output manifold.

Learn more here

PO18 hydraulic screw pump produces pressure with superior control. The adjustable reference pressure port lets you set your reference gauge at the best viewing angle.

Pump Systems D

- ► Generates 5000 psi/350 bar.
- ► Easy-to-use fine adjust.
- ► Adjustable reference port.
- ► Compatible with water or oil.

Learn more here ◀



AMETEK pressure measurement and calibration solutions are in use every day across the globe in industries like offshore oil drilling, oil and gas refineries and distribution, traditional and nuclear power generation, water supply and waste water treatment, manufacturing, aircraft maintenance, aerospace, marine, and food & beverage.

AMETEK reference indicators and pressure sources are perfect for testing:

Pressure Gauges, Transmitters



Transducers, Flow Computers, Indicators,



Pressure Relief Valves, Valve Positioners,

Converters (I-P, P-I), Volume Correctors,

Leak Testing

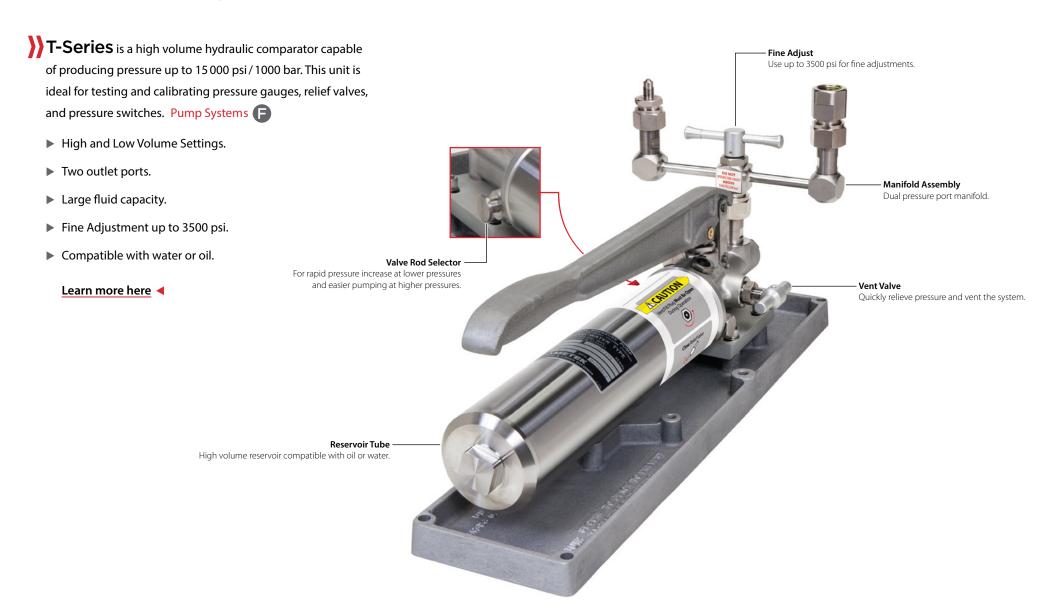


Chart Recorders, and

Pressure Switches.



High Volume Pressure Source





Ordering Information

ny Pump System may be ordered with or without a reference indicator. The table below provides an explanation of the Pump System ordering scheme when ordering a system without an indicator. For details on ordering the Pump Systems with an indicator, see the indicator data sheet.

Reference Indicator	Reference Indicator Included	Pump System
nVision NV	NoNONE	System A (T-960)AXX
30 Series IS30		System A (T-970)
XP2iXP2I		System B (T-965)
m1 M1		System B (T-975)BHX
		System C (T-620) CXX
Sample Part Numbers		System C (T-620H)CHX
A XP2I-NONE-AXX		System D (P016 or P-018) -DOX
System A (for XP2i) with an aluminum carrying case. B NV-NONE-BXX-W System B (for nVision) with a waterproof carrying case. 3KPSIXP2I-CXX System C with a 3000 psi XP2i gauge in an aluminum case.		System D (P017 or P-018) -DWX
		System E (P014) EXX
		System F (T-1) -FWB
		System G (GaugeCalHP–oil) GOX
		System G (GaugeCalHP–water) GWX
IS30-NONE-DOX System D (for 30 Series)	filled with oil.	System H (T-620H and T-975)HOX

Liquid*	Carrying Case **
Full (omit)	Aluminum (omit)
DrainedE	Waterproof W

- * Full is an option for Systems C, D, E, and H only. Drained is the only option for Systems F and G.
- ** The Waterproof Case is an option for Systems A, B, and C only. The Waterproof Case is the only option for Systems G and H.



Red & Black Test Leads and Clips (Included only with Pump Systems for the 30 Series Calibrator)

NV-NONE-EXX-E System E (for nVision) drained of fluid.

System D (for 30 Series) filled with oil.

- 15KPSIXP2i-FWV-E System F with a 15 000 psi XP2i gauge for use with water, drained.
- G NV-NONE-GOX-E-W System G (for an nVision) for use with oil, drained of fluid, in a waterproof case.
- IS30-NONE-HOX-E-W System H (for 30 Series) drained of fluid, in a waterproof case.





Dear Calibration Professional,

You're already familiar with the family of high quality AMETEK calibrators and pressure gauges. Perhaps you even own one.

The same relentless pursuit of perfection invested in our gauges; and that spurred the design of CPF the industry's safest test fitting line—also drives us to create top-quality pressure generation systems.

We know, just as you do, that the best calibrators are only as good as their support equipment.

Our pumps and Pump Systems deliver exactly what you need for field and lab calibration: reference indicators, fittings, hoses, and accessories, all packed inside sturdy and portable cases.

From rugged and effective pumps, to the best fittings and hoses, to time-saving software—we've thought of everything.

These are your tools for pressure calibration; the ones you use over and over, every day. Doesn't it make sense to buy the best?

Working for you,

The AMETEK Team

CrystalCalHP

Everything You Need for Ultra-Fast, Error-Free **Calibrations**

10-point up and down calibrations in under 3 minutes. **CrystalCalHP-PSI includes:**

- One GaugeCalHP pressure comparator.
- One copy of FastCalXP calibration software, with footswitch.
- Three XP2i gauges with 0.1% of Reading accuracy.

One Weatherproof carrying case.

Eliminates typing and guessworkautomatically generates

calibration reports.

Learn more here...









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