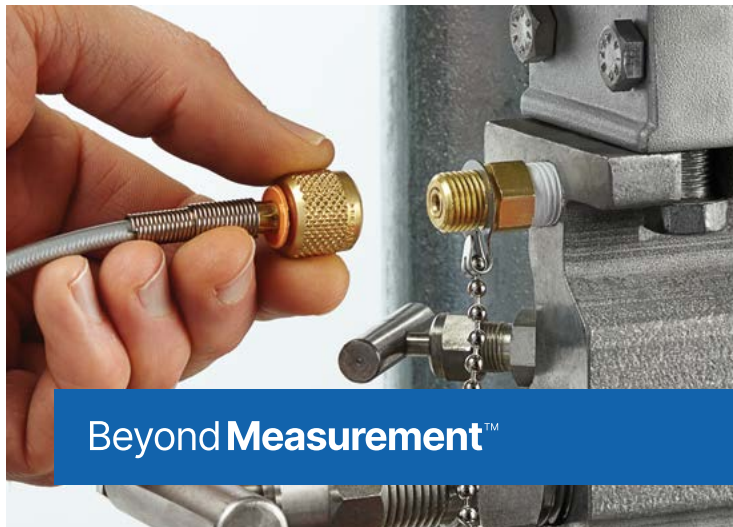


Complete Pressure & Temperature Calibration Solutions From Connection to Documentation



Beyond Measurement™

MADE IN THE USA

Solutions for Real-World Calibration Challenges

Across plants, pipelines, labs, and job sites, Ralston tools perform where precision matters most.



Made in USA, the Ralston Way

Everything we produce, from precision components and instrumentation to desktop and mobile software, is designed, engineered, and built in the United States. That means faster lead times, fewer supply chain surprises, and results you can trust — every time.

The Ralston Approach

Progress Through Practical Design

Since our founding in 1969, Ralston Instruments has focused on creating practical tools that simplify calibration work. Our products are designed to reduce setup time and eliminate unnecessary complexity, helping technicians achieve consistent, more reliable results. From hardware and software to documentation and support, everything we develop is designed to work together and support the way work actually gets done in the field.

Across energy, aerospace, manufacturing, laboratories, and service industries, companies rely on Ralston systems for dependable performance and easy integration into established workflows. Our unique solutions make it easy to tailor test setups to specific requirements while integrating compatible third-party hardware and software as needed. That flexibility reflects decades of practical engineering experience and a continued focus on the real-world demands of calibration work.

Complete Calibration Solutions

From generating and controlling pressure to measuring and recording results, Ralston provides a complete calibration system for field or bench work, with Quick-test hoses and adapters connecting every part of the setup.

MEASUREMENT

Calibrators, gauges, and software

p.6

PRESSURE GENERATION

Test pumps

p.12

PRESSURE CONTROL

Compressed gas control devices

p.14

CONNECTIONS

Hoses and adapters

p.16

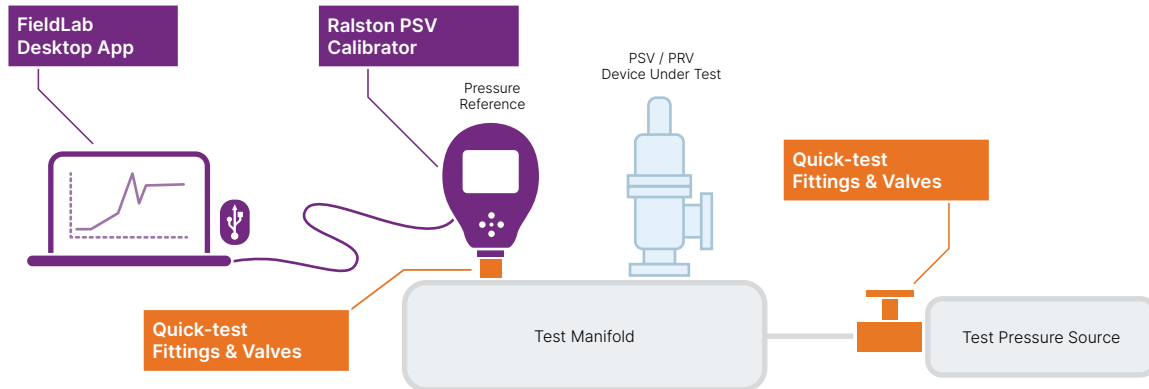
KITS & ACCESSORIES

p.26

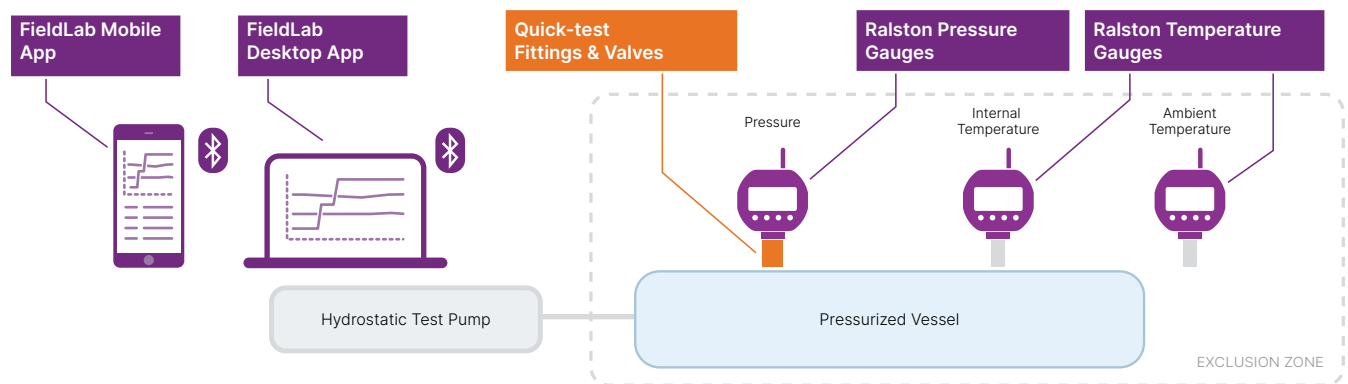
The Ralston Calibration Platform

Ralston products are functionally developed for the precision and durability needs of your calibration applications, with ergonomic design and components that can be simply serviced. Our durable hoses and wide array of fittings support every stage of the calibration process.

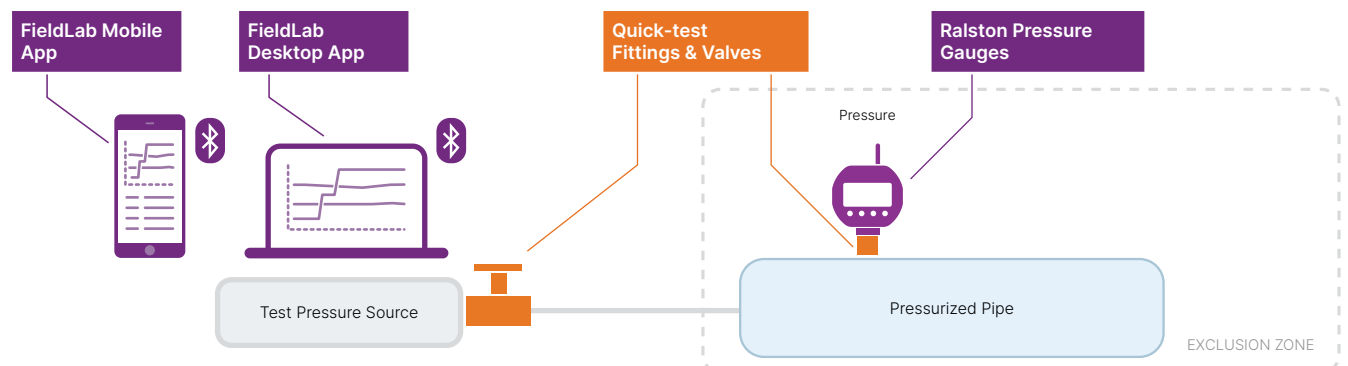
PSV/PRV TEST



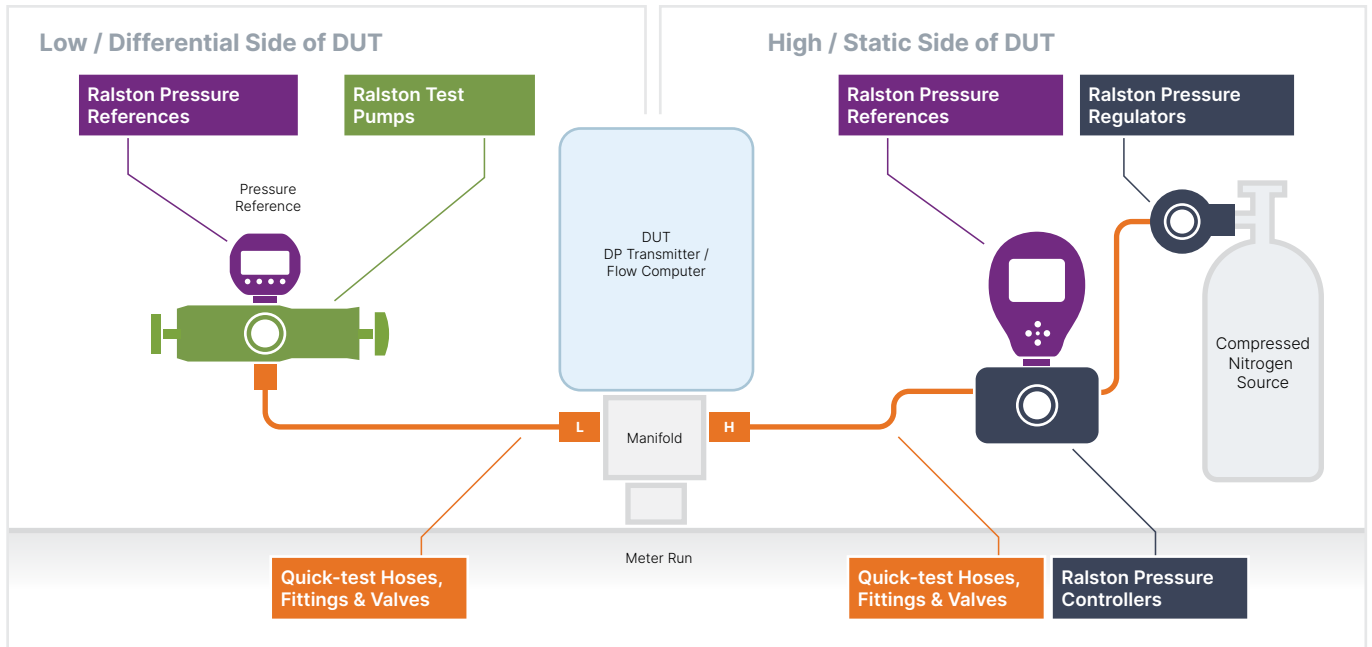
HYDROSTATIC TEST



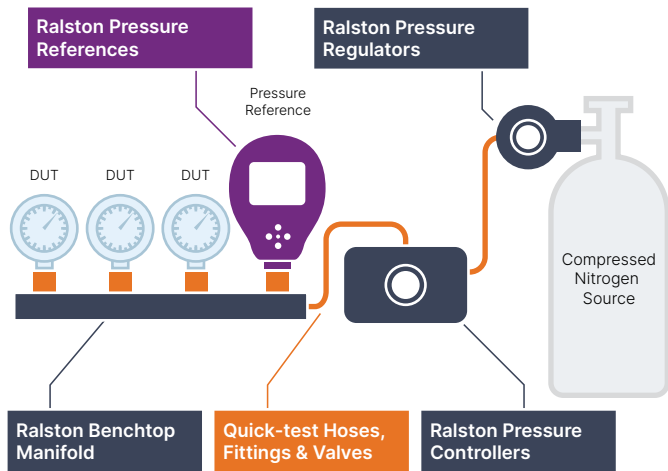
PNEUMATIC TEST



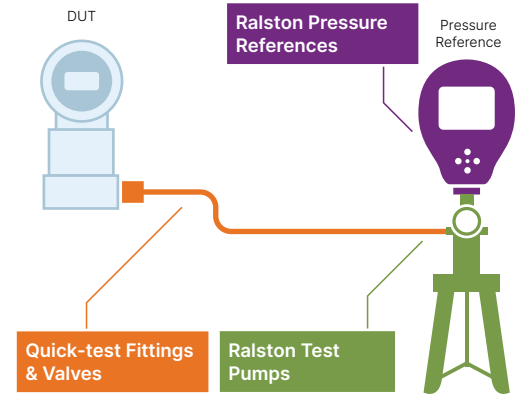
DP TRANSMITTER CALIBRATION



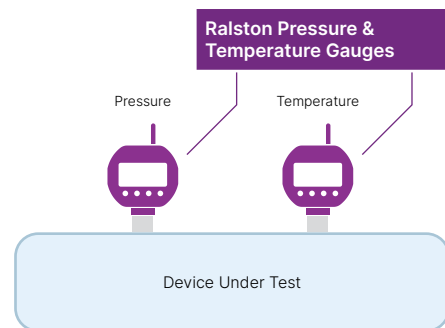
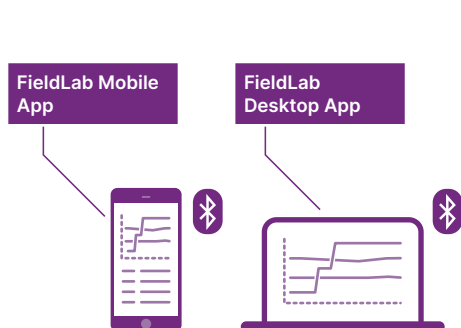
PRESSURE GAUGE CALIBRATION



PRESSURE TRANSMITTER CALIBRATION



PRESSURE AND TEMPERATURE MONITORING



The FieldLab Pressure Calibrator

The FieldLab lets you **plan and manage tests, view live readings, and download results instantly** with digital control and data management through our FieldLab Desktop software.

Key Features

- **Accuracy:** +/- 0.02% of Full Scale (0-20% of Full Scale)
+/- 0.1% of Reading (20-100% of Full Scale)
- **Range:** Up to 10,000 psi / 70 MPa
- **Logging:** 2 million points onboard
- **Flexibility:** Custom test modes
- **Durability:** IP67 rugged housing
- **Mobility:** Optional RF module for long distance connection to your PC
- **Connectivity:** USB with optional wireless
- **Connection:** Male NPT bottom connection
- **Safety:** Certified Intrinsically Safe for use in hazardous locations



**Lab-grade accuracy
wherever the job takes you.**



PSV TESTING



Capture PSV crack and reseal pressures with digital sampling at 200 readings per second.

HYDROSTATIC TESTING



Create complete hydrostatic test reports with wirelessly logged pressure and temperature data.

SNAPSHOT LOGGING



Log pressure readings on demand with named test points and saved test routines.

PRESSURE MONITORING



Monitor pressure trends for hours or months with customizable intervals and up to 2 million data points of storage.

Pressure & Temperature Gauges

Ralston digital gauges keep your work moving, with smart solutions that streamline how your data is captured, managed, and shared.

Key Features

- **Accuracy:** $\pm 0.1\%$ or $.25\%$ full scale options
- **Range:** Vacuum to 30,000 psi / 205 MPa
- **Durability:** Rugged, waterproof construction (IP67)
- **Versatility:** 15+ engineering units with customization options, one-button Zero function, High/Low pressure tracking, and more
- **USB connectivity** for data and calibration
- **Bluetooth models** with data logging using our mobile or PC desktop software



Scan to learn
more about
Ralston
Gauges

Standard Gauge Options



Field Gauge LC10

The Everyday Workhorse

- $\pm 0.25\%$ full scale accuracy
- 15 pressure ranges from 5 psi to 10,000 psi, plus compound and vacuum gauges to 30,000 psi / 205 MPa



Field Gauge LC20

Lab-Grade Accuracy on the Go

- $\pm 0.1\%$ full scale accuracy
- 15 pressure ranges from 5 psi to 30,000 psi, plus compound and vacuum gauges
- Optional Bluetooth with data logging



Process Meter LC30

Panel-Mounted Precision

- $\pm 0.1\%$ full-scale accuracy
- 15 pressure ranges from 5 psi to 30,000 psi, plus compound and vacuum gauges to 30,000 psi / 205 MPa
- Optional Bluetooth with data logging
- A/C power with battery backup

Specialty Gauges for Common Applications



Gas Service and Regulator Testing

A single gauge for recording both high and low pressures levels.



Hydrostatic Testing

Combines both pressure and temperature measurement with real-time data logging and sharing.



Pipeline and Ambient Temperature Monitoring

Measures pipeline and ambient temperatures remotely for safer, more efficient field testing.



Pharma and Food & Beverage

Features a 3-A certified tri-clamp design for contamination-free measurement and easy cleaning.



Ralston FieldLab Desktop Software

Get more from your Ralston gauges with desktop software that makes it easy to create tests, organize results, and manage your gauges.

Log Pressure & Temperature from Connected Gauges

Design custom data logging tests to monitor pressure and export data set results.

Manage Gauges

Manage custom units, custom data fields, firmware updates, localization, and power manage features on all Ralston gauges.

Create Test Reports

Create test report documentation in PDF format from data logs test data or calibration tests.

Standardize Tests Across Teams

Easily plan and create your tests based on ASME standards or custom test points complete with permissible error. Set up tests for:

- Pressure monitoring
- Hydrostatic testing
- PSV testing
- Snapshot logging
- Calibration testing

Scan to learn more about Ralston FieldLab Software



Calibration Test

Test Mode Name: ASME G4

DUT Full Scale: 500 psi

Test Points

% of Scale	Test Point	Permissible Error	% Reading	% Full Scale
1. 0%	0.00	± 0.50		0.10%
2. -10.00%	50.00	± 0.50	1.00%	0.10%
3. -20.00%	100.00	± 0.50	0.50%	0.10%
4. -30.00%	150.00	± 0.50	0.33%	0.10%
5. -40.00%	200.00	± 0.50	0.25%	0.10%

Ralston FieldLab Mobile App

Take pressure and temperature testing into the field with a mobile app designed to simplify data collection, monitoring, and reporting.

Hydrostatic Testing

Log multiple pressure and temperature readings across Ralston LC20 gauges.

Cross-Connection Testing

Collect multiple pressure readings together on one timeline for wastewater cross-connection tests.

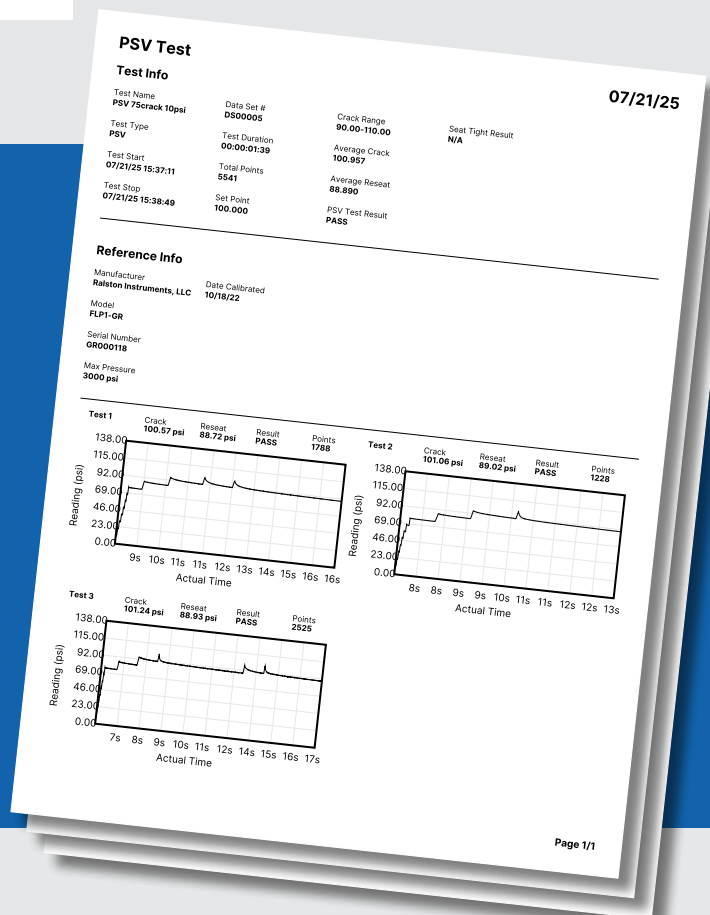
Long-Range Remote Monitoring

View and log pressure and/or temperature readings from the comfort of your vehicle up to 330 ft / 100 m line-of-site range via Bluetooth BLE.



Share Results & Test Reports in Seconds

FieldLab Desktop and Mobile App allow quick export of test results for easy documentation and sharing.





Test Pumps

Comfortable grips and fine adjustment pistons make it easy to build precise calibration pressure in seconds.

Key Features

- **Range:** Vacuum and/or pressure generation (depending on the model)
- **Durability:** Rugged construction for demanding field use
- **Stability:** Stable pressure output
- **Maintenance:** Simple maintenance with common tools
- **Connection:** No tools needed to connect fittings and hoses for fast setup and leak-free tests using Ralston Quick-test™ connections



Scan to learn more about Test Pumps

Low Pressure/Vacuum Pneumatic Test Pumps

Designed for low-pressure, vacuum, and differential pressure calibration applications.



Scan to learn more about Pneumatic Test Pumps



DP0V Pressure

Precise, controlled pressure for sensitive low-pressure work up to 125 psi / 860 kPa



DPPV Pressure/Vacuum

Switch easily between pressure and vacuum for versatile field testing from -23 inHg / -78 kPa to 125 psi / 860 kPa



DV0V Vacuum

For precise, low-level vacuum control in inch-of-water applications down to -23 inHg / -78 kPa

Gas Sampling Pumps

Easily sample low-pressure gas directly from the well.

SP0V Gas Sampling Pump

The SP0V boosts gas pressure up to 25 psi for easy transfer into a sample cylinder.



Scan to learn more about Gas Sampling Pumps



Pneumatic Calibration Pumps

Well suited for calibration of pressure and vacuum transmitters.

DCAP Models

Squeeze with ease, up to
650 psi / 4.50 MPa



DCAP-PV Models

Switch between vacuum and
pressure on one pump, from
-28.5 InHg / -96.5 kPa to
650 psi / 4.50 MPa



Scan to learn
more about
Pneumatic
Calibration
Pumps

Hydraulic Test Pumps

Ideal for pressure transmitter calibration, flow
computer validation, and pressure switch testing.

QTHP Hydraulic Test Pump

Built for smooth, stable
pressure control up to
5,000 psi / 35 MPa



XTHP Hydraulic Test Pump

Designed for higher
pressure applications up
to 10,000 psi / 70 MPa



Scan to learn
more about
Hydraulic Test
Pumps





Compressed Gas Pressure Control

For applications that depend on steady, controlled pressure, our pressure control line makes accurate regulation easy with a complete range of compressed gas solutions for field, laboratory, and training facilities.



Scan to learn more about the NitroPak



NitroPak Calibration System

Portable, regulated nitrogen pressure wherever the job takes you.

Key Features

- Refillable on-board 15.2 ft³ / 430 liter storage cylinder
- Pressure-balanced fine adjust for ultra precise control at any pressure up to 3000 psi / 20 MPa
- Nitrogen pressure regulator
- Heavy-duty case
- Quick-test hoses and adapters

ControlPak Manual Pressure Controller

Connect your own regulated nitrogen source and run precision tests right at the site of your device under test.

Key Features

- Pressure-balanced fine adjust for ultra precise control at any pressure up to 3000 psi / 20 MPa
- Heavy-duty case
- Quick-test hoses and adapters



Scan to learn more about the ControlPak

QTVC Pressure Controller

Ultra-fine-adjust pressure control. Dial and lock in your set points within 0.0005 psi / 3 Pa. Ideal for lab and shop use.

Includes:

- Precision pressure controller
- Quick-test hoses and adapters



Calibration Manifold

An essential tool for every technician's field test kit for static pressure calibration. Just hook up a compressed gas cylinder at one end, a device to be calibrated on the other, and a gauge in the middle. It's that simple.



Scan to learn more about Pressure Control Devices

XREG Pressure Regulator

Great for test stands and test benches, with models available for all standard inert compressed gas cylinder valves used in North America, Germany, France, UK, and Australia up to 3000 psi / 20 MPa.



Ralston Quick-test™ Connection System

The Backbone of Accuracy and Repeatability

Ralston Quick-test™ is a complete system of low-volume, high pressure hoses and adapters that install quickly and seal tightly without tools or sealant.

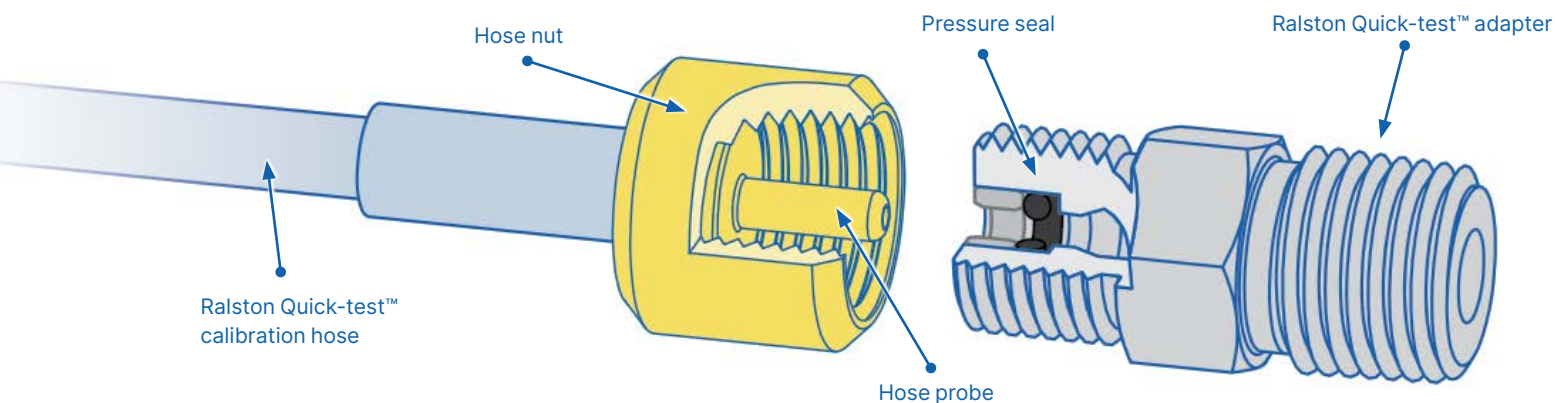
All Quick-test hoses adapt easily to tube fittings, NPT, BSPP and BSPT threads, pressure gauges, pressure transmitters, and pressure calibrators, and there are Quick-test adapters for virtually any process connection.

Connect and disconnect in seconds, without tools or sealant.

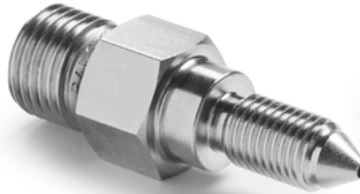
How the Quick-test System Works

Fast, Leak-Free Connections

Quick-test fittings and adapters use an integrated O-ring pressure seal that creates a secure fit every time. Simply tighten by hand for fast, reliable connections without tools, thread tape, or sealant.



A Smarter Way to Connect



Low-Volume, High-Pressure Hoses

Low internal volume improves response time, reduces gas consumption, and helps pressure stabilize quickly.



Quick-test Adapters

Bubble-tight pressure seals ensure secure, leak-free connections without tools, tape, or sealant.



Faster, Simpler Calibration and Testing Workflows

The Quick-test system brings every part of your testing setup together, making the job faster and easier from start to finish.



Quick-test Adapter Kits

Choose from a variety of Quick-test kits to get started or build out your tool set to adapt to any standard connections.

- **Kits by Application**

Built around common test setups.

- **Kits by Connection Type**

Designed for standard connection types.

- **Universal Connection Kits**

The most common fittings and hoses used to connect to any pressure transmitter, gauge, or manifold.



Scan to learn more about Quick-test Adapter Kits

Microbore Test Hoses

Low Volume, High Stability

The small inner diameter and low volume of Ralston microbore hoses make them ideal for transmitting high pressure while consuming very little compressed gas or fluid.

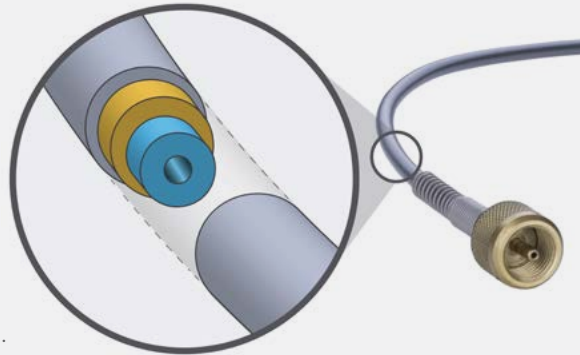
Whether pressure is created hydraulically, pneumatically, or from compressed gas, less media is needed to generate and sustain the required pressure. This design makes calibrations faster and easier to complete while delivering precise results.



A Closer Look

Each layer of a Ralston hose is engineered with a specific purpose to help ensure stability, reduce temperature effects, and maintain consistent volume, even through twists and turns.

- 
Reflective Outer Cover
 Reduced temperature sensitivity through a reflective surface.
- 
Reinforced Inner Core
 Polyamide inner core prevents twisting and bending from changing the volume across the hose.
- 
Small Inner Diameter
 Ideal for transmitting high pressure while consuming very little compressed gas or fluid.



High Pressure & Extreme Pressure Hose Options

No matter the application, there's a Quick-test hose to match. Quick-test hoses are available in QT (standard) for pressures up to 6,900 psi, including gas and vacuum, and Quick-test XT for pressures up to 10,000 psi in gas and hydraulic applications.



6,900 psi / 475 bar



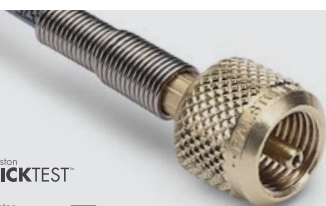
10,000 psi / 689 bar

Build a Custom Ralston Quick-test™ Hose

Design a hose that fits your setup. Specify your hose length and choose from 11 industry-standard connection types.

Scan to Build
a Custom
Ralston
Quick-test™
Hose

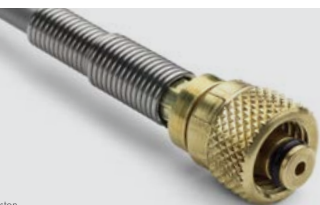




Ralston Quick-test™ Hose Ends

Make fast, low-volume, high-pressure connections to pressure instruments, hand pumps, calibration sources, or devices under test with Quick-test connections up to 6900 psi (475 bar).

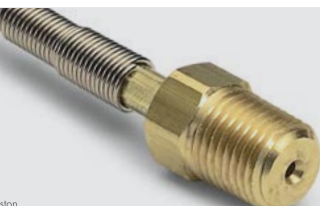
Available in: Quick-test | Quick-test XT



Tube Fitting Hose Ends

Connect to Swagelok, Parker, Hoke, SSP, Tylok, and similar tube fittings for flexible, high-pressure use in permanent or quick-connect applications.

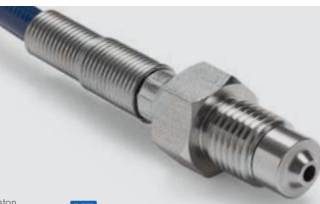
Available in: Quick-test



Male NPT Hose Ends

Designed for use with any female NPT device. Ideal for permanent installations or adapting to alternative Quick-connects.

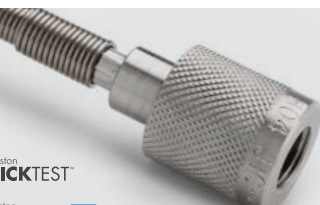
Available in: Quick-test



Medium Pressure Hose Ends

Connect to Autoclave Engineers, High Pressure Equipment, Butech, Ametek Crystal, or other 7/16-20 UNF connections.

Available in: Quick-test XT



Flare Hose Ends

Connect to -04 male Flare connections up to 10,000 psi. Excellent for military, aerospace, and other applications where AN flare fittings are used.

Available in: Quick-test | Quick-test XT

The QTHR Hose Reel Go the Distance

Run tests from farther away and keep Quick-test hoses organized with a heavy-duty hose reel that'll stand up to years of use.

Leave the nitrogen cylinder on your truck and deliver precision-controlled pressure right at the test site from up to 150 feet away.



Scan to learn
more about the
QTHR Hose Reel



Ralston Quick-test™ Adapters and Fittings

With hundreds of adapters and fittings available, the **Quick-test Connection System** makes it easy to connect pressure gauges, calibrators, hand pumps, transmitters, and process equipment for virtually any application.

Connections for Calibrating Differential Pressure Transmitters

Some differential pressure transmitters connect with standard NPT or tube fitting adapters, while others require dedicated transmitter adapters. Quick-test offers both, making it easy to build fast, leak-free calibration setups.

Compatible With

- Emerson/Rosemount
- Yokogawa
- Endress+Hauser
- Honeywell
- ABB



STANDARD PROCESS CONNECTIONS



DEDICATED TRANSMITTER ADAPTERS



Find the right connection for your differential pressure transmitter



Faster Connections to Hand Pumps, Gauges & Pressure Calibrators

Standardize virtually any pressure source or reference instrument with Quick-test connections that make setup faster and help protect instrument threads.

Compatible with all major pumps and gauges including:

- Ralston
- Druck
- Additel
- Fluke
- Crystal
- Beamex
- Ashcroft
- Wika
- East Hills
- Sika



Connections to Test Pumps

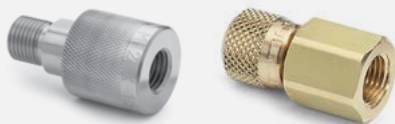
Quick-test adapters convert common pump ports into fast, leak-free connections. Instead of threading hoses on and off with wrenches and sealant, technicians can connect quickly and start generating pressure right away.



Find the right adapter for your test pump

Connections to Gauges and Calibrators

Install **Ralston Quick-test™ adapters** on your gauges and connect your hoses by hand without tools or tape.



Find the right connection for your pump, gauge, or calibrator



Connecting to BSPP Equipment

Convert BSPP pressure ports into fast, reliable Quick-test connections.



Find the
right connection
for your
BSPP equipment



Connecting to BSPT Equipment

Standardize BSPT connections for faster pressure testing and calibration.



Find the
right connection
for your
BSPT equipment

Connecting to Flare Fittings

Designed for hydraulic, aerospace, and marine systems that use 37° flare (AN/JIC) fittings.



Find the right
connection
for your
flare fittings



Connecting Hoses Together

Join Quick-test hoses to reach distant pressure ports and hard-to-access equipment.



Find the right connection for your Quick-test hoses.



Delivering Pressure to Multiple Devices

Split a single pressure source to supply multiple gauges, calibrators, or test instruments.



Browse tees, manifolds, and multiport adapters



Connecting Through Panels & Enclosures

Extend pressure connections through panels, cabinets, and test stands for fast, repeatable access.



Find the right bulkhead connection for your panel or enclosure



Connecting to Medium & High-Pressure Equipment

Adapt medium- and high-pressure connections for fast, tool-free Quick-test hose connections.



Find the right connection for your medium- and high-pressure equipment



Connecting to Roots Rotary Meter Test Ports

Connect to Roots rotary meter test ports quickly using adapters designed specifically for the job.



Find the right connection for your ROOTS® rotary meter



Connecting to Nitrogen Cylinders

Connect Quick-test hoses to nitrogen cylinders with regulators, adapters, and fittings.



Find the right nitrogen cylinder connection



Connecting to Metric-Threaded Equipment

Bridge male and female metric threads to Quick-test.



Find the right connection for your metric-threaded equipment



Adapting to Minimess Test Points

Turn Minimess test points into convenient Quick-test connections for faster pressure testing and calibration.



Find the right connection for your Minimess test points

Connecting to SAE/MS Ports

Ideal for aerospace, automotive, and industrial equipment with female SAE/MS ports.



Find the right connection for your SAE/MS ports

Controlling Pressure with Quick-test Valves

Add Quick-test valves and valved fittings wherever you need to isolate, vent, or control pressure during testing and calibration.



Find the right valve for your application

Dialing In Exact Calibration Pressure

Inline and panel-mounted Quick-test verniers add fine pressure adjustment to virtually any pressure testing setup.



Find the right vernier for your application

Ralston Quick-test™ Adapter & Fitting Finder



Use our Adapter Search to quickly and easily find the adapter that's right for the job.





Calibration Kits

Ralston makes it easy when you are looking for a complete pressure calibration kit. We bring all the right hand pump and nitrogen control components together so that you don't have to. Kits are available for all pressure creation and control products.



Scan to learn
more about
Calibration Kits

HAND PUMP CALIBRATION KITS



Include:

- Ralston hand pump
- Ralston gauge or FieldLab digital pressure reference
- All cables, chargers, manuals, and accessories

NITROGEN PRESSURE CONTROL KITS



Include:

- Ralston nitrogen pressure control device
- Ralston gauge or FieldLab digital pressure reference
- All cables, chargers, manuals, and accessories

Hydrostatic Test Kits

No more fumbling around with cables and dried-out pens. FieldLab hydrostatic test kits replace bulky chart recorders with a simple digital solution for monitoring both pressure and temperature. The result is faster setup, easier documentation, and up to 10 times greater accuracy.



Scan to learn
more about
Hydrostatic
Test Kits



Include:

- FieldLab digital pressure reference & data logger
- LC20-TA thermal probe gauge (1 or 2 probes, depending on the model)
- All cables, chargers, manuals, and accessories
- Durable waterproof case that protects all test equipment and accessories



Benchtop Manifolds

Free up workspace and test multiple pressure instruments at once.

- Mount gauges with different process connections and sizes in seconds
- Vertically mounted ports are spaced far enough apart so larger gauges will fit easily
- Easily switch between pressure connections on devices under test without a wrench
- Available in both Quick-test and Quick-test XT versions supporting up to 10,000 psi

Equipment Protection

Keep compressed gas systems clean and protected with simple, cost-effective filtration and moisture control accessories.



- Filter particulate to protect calibration instruments
- Rated for pneumatic systems to 5,000 psi / 350 bar
- Easy cleaning by flushing with alcohol

- Prevent liquid and debris from entering instruments
- Rated for pneumatic systems to 3,000 psi / 210 bar
- Quick-release lid for easy emptying and cleaning

Accessories and Replacement Parts

Complete your setup with accessories and supporting components designed to simplify maintenance and extend equipment life.



Adapter Bags



Protective Rubber Boots



Carrying Cases



Replacement Hoses

Scan here for a complete list of Replacement Parts & Accessories



...and more!



Beyond Measurement™

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+1-440-564-1480

EMAIL
sales@ralstoninst.com



WARNING: Products containing Brass can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information, visit www.P65Warnings.ca.gov.

Find your nearest
Ralston distributor:

