



Ralston Instruments

Pressure Calibration Specialists

Connect

Hoses, Adapters, Valves and Verniers
The Ralston Quick-test™ System



Connect



Create



Control



Calibrate

MADE IN THE USA SINCE 1969

Visit ralstoninst.com

Made in the USA – The Ralston Way

When precise, reliable pressure calibration is essential, trust Ralston Instruments.

For over 40 years, we've engineered pressure calibration equipment and systems to serve a wide range of applications, saving time and taking the guesswork out of critical pressure testing, maintenance and repair jobs.

Doug Ralston, founder of Ralston Instruments, invented the first hand-held pneumatic pump in 1969, followed by the development of the first hydraulic hand pump in 1970. Ralston's passion for advancing pressure calibration components remains undiminished.

In 1993, Ralston Instruments launched the Ralston Quick-test™ system, the first fully-integrated system of hoses and adapters designed for low-volume, high-pressure connections to virtually any device being tested. The unique design offers secure,

time-saving connections without using a wrench or thread sealant. Ralston's integrated calibration pressure sources are the ultimate solution for performing differential or static pressure calibrations using nitrogen or compressed gas.

All Ralston products are made in the USA using superior design and manufacturing techniques. These products include hand pumps, compressed gas control devices, hoses, adapters and complete calibration kits.

The Four Keys to Pressure Calibration

The Ralston Engineering Team has created industry-tested, rugged, portable equipment to address 4 key aspects of calibration systems.

Connect

Adapt to any reference, pressure source, process and device under test with quick, reliable, leak free connections without thread tape and sealant.



Ralston Quick-test™ hose

Create

Rugged hand held and nitrogen-based pressure sources for high, low and medium pressure and vacuum calibrations.



Hydraulic hand pump

Control

Volume control over nitrogen pressure sources makes calibration even more precise and efficient.



Portable calibration nitrogen source

Calibrate

Specially configured pressure calibration systems complete with everything you need for your application.



Portable calibration volume controller

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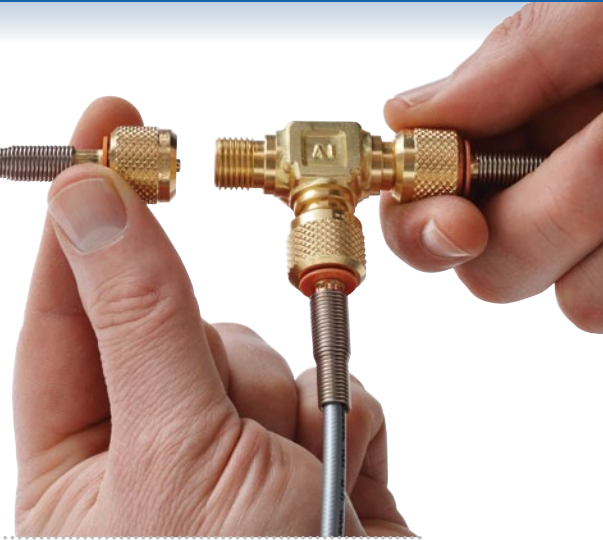
Find helpful reference guides on [pages 14–15](#) to compare seals and select the right adapter for your application.

It starts with the Connection...

Ralston Quick-test™ system allows for a faster workflow when connecting and reconnecting to all standard process connections.

The most precise, economical and efficient calibrations start with the best connections. Only Ralston Instruments offers Ralston Quick-test™ fittings and hoses that attach and detach without a wrench or thread sealant, saving valuable time and reducing the need to stock multiple hoses or adapters. Equally important, all Ralston Quick-test™ fittings make leak-tight connections you can count on. The O-ring inside each fitting forms a secure seal capable of sustaining high pressure. The Ralston Quick-test™ hoses are extremely lightweight and flexible, yet are engineered to perform in harsh environments. Ralston Quick-test™ XT hoses are ideal for the most demanding applications with a working pressure of 10,000 psi (690 bar).

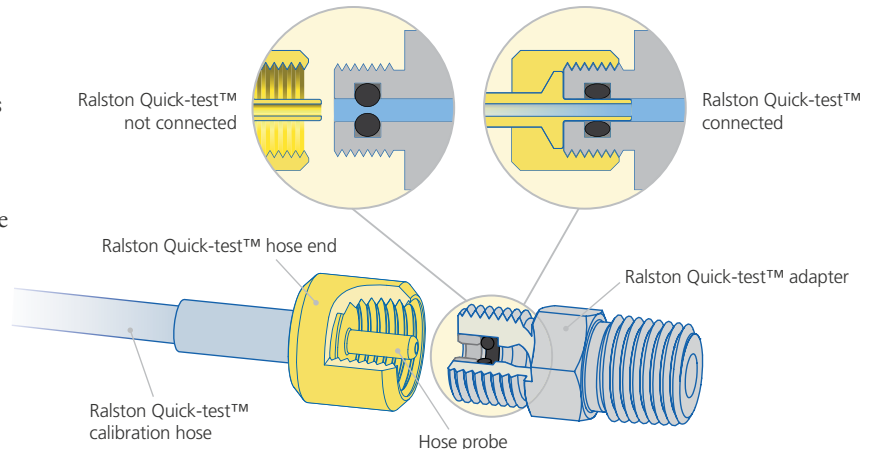
Ralston Quick-test™ hoses and tee



How the Ralston Quick-test™ System Works

No Wrench or Thread Tape

Ralston Quick-test™ connections use an integrated O-ring pressure seal for quick, leak-free connections every time — without the need for thread tape or a wrench! Our fittings don't weep — there is no need for weep holes to keep the O-ring from failing as the seals in our adapters cannot accidentally blow out, like they can in our competitors' adapters.



High Pressure Connections

With max pressure ranges well over 5,000 psi, Ralston Quick-test™ connections out-perform the competitors' quick connect and adapt to all standard connections.



Up to 6,900 psi



Up to 10,000 psi

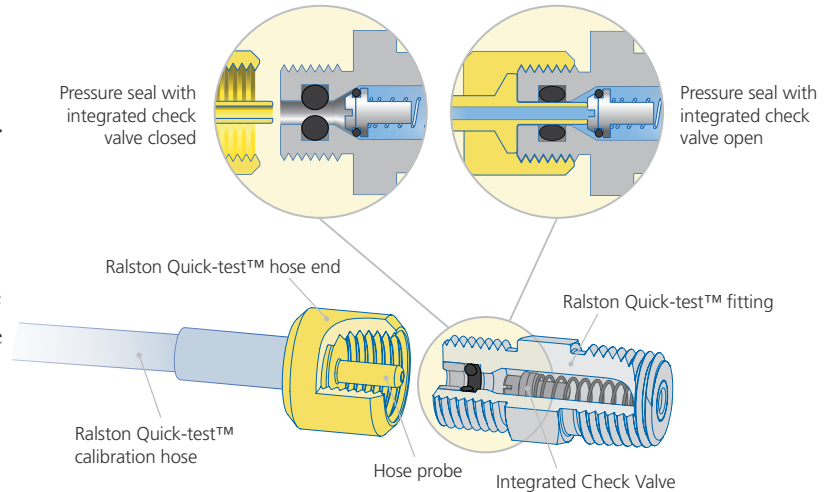


Make Direct, Live Pressure Connections Up to 3,000 psi Instantly

For faster connections with a device under live pressure, use Ralston Quick-test™ fittings and adapters with the integrated check valve. Connections can be created and disconnected without the need to vent and re-pressurize. Use a cap and chain for permanent installation.

How Ralston Quick-test™ Adapters with Check-valves Work

The probe in the Ralston Quick-test™ hose end pushes the check-valve in the adapter open, allowing pressure past the check-valve. When the probe is removed, the check-valve shuts, preventing any loss of liquid or gas pressure.



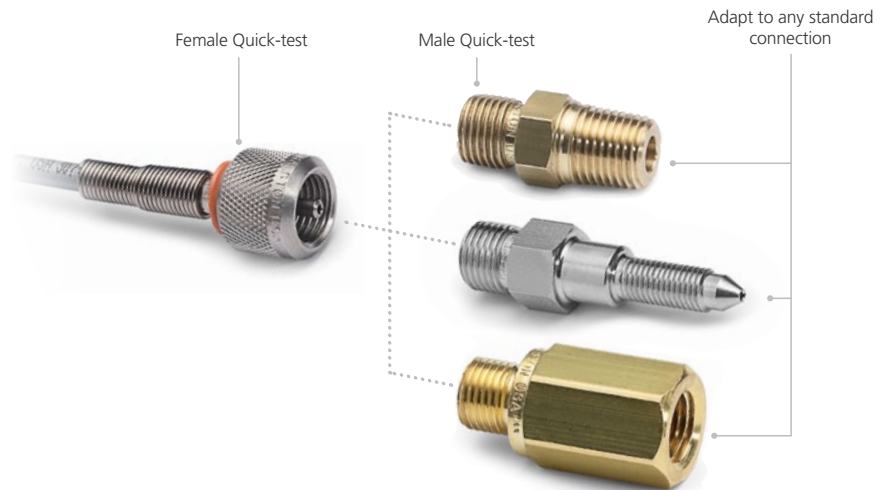
Ralston Quick-test™ Connections Can Adapt — No Matter What the Application

Ralston Quick-test™ Connections

Connect to any Ralston Quick-test™ or Ralston Quick-test™ XT adapter and from there to any standard connection and thread size. Adapters, valves, fittings, tees and unions are available for common applications and all popular brands and standards.

Note that the Quick-test and Quick-test XT hoses and adapters are not interchangeable.

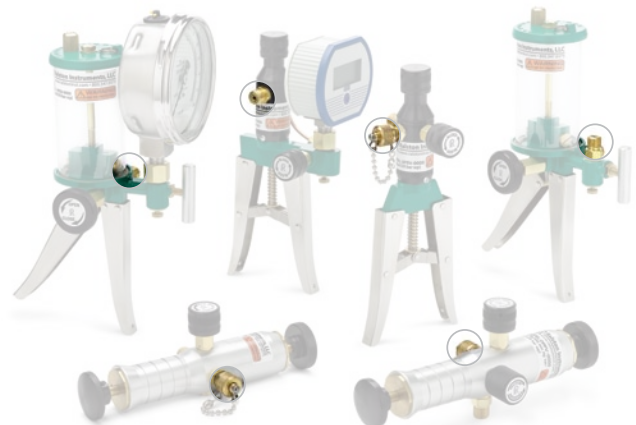
Find adapters beginning on page 9.



Ralston Quick-test™ Connections are Standard on All Ralston Instruments Pressure Sources & Volume Controllers

Ralston Quick-test™ connections come standard on all Ralston pressure sources and volume controllers making each device a platform readily adaptable to existing connections.

Ralston Quick-test™ fitting with cap & chain attached to a pneumatic hand pump



Adapt to Any Pressure Reference or Source Without Brute Force

Our adapters are available for nearly every popular gauge and in all standard connections.



Protect Your Precision Gauge

Keep your precision gauge separate from your hand pump. Quickly connect and disconnect to standard connections without any wear and tear on threads in your pressure calibrator or test gauge.



Adapt to any Pressure Source

Get more from your Pressure Reference by quickly connecting to multiple pressure sources.



Connect Directly or with Hoses

Connect to larger calibrators or get more flexibility for inconvenient configurations. Minimize measurement uncertainty when connecting directly to a primary standard.



Reference Connections

Connect to a pressure calibrator, pressure module or gauge directly or with a hose.

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Female Quick-connect Gauge Adapters

Connect to a gauge without a wrench or thread sealant.

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Ralston Quick-test™ Hose End

Connect to any Ralston Quick-test™ adapter.

(available in brass and stainless steel)

p. 11



Pressure Source & Control

Adapt to all popular hand pumps and nitrogen control devices.



Tube Quick-connect Hose End

Tube Quick-connect hose ends allow a user to connect directly to Swagelok®, Parker®, Hoke® or equivalent tube fittings without a wrench. They can be made and remade thousands of times.

p. 13



Male NPT Hose End

Connect to a different style Quick-connect or when connecting two pieces of equipment together permanently.

p. 13



Tube Stub Hose End

Connect to any tube fitting or quick-connect with tube fitting ends but keep the benefits of the flexible, low volume Ralston hose.

(Available in brass and stainless steel.)

p. 13

Adapt to Process Connections and Devices Under Test

It couldn't be easier. Ralston Quick-test™ connections make thread sealant a thing of the past.



Connect to Virtually Any Device



Connect Directly or with a Hose



Connect Adapters Either Permanently or Temporarily



Ralston Quick-test™ Adapters and Fittings

Install Ralston Quick-test™ adapters in all standard threads for quick hose connections. Use cap and chain models for permanent installation and leave capped when not in use.

[p. 16](#) [p. 18](#)

Transmitter Adapters

Connect directly to a Rosemount®, Honeywell, ABB®, Yokogawa® or equivalent transmitter using the bleeder port.

[p. 27](#)



Valves & Verniers

Install a valve with an integrated Ralston Quick-test™ port on any process that needs quick access for calibration.

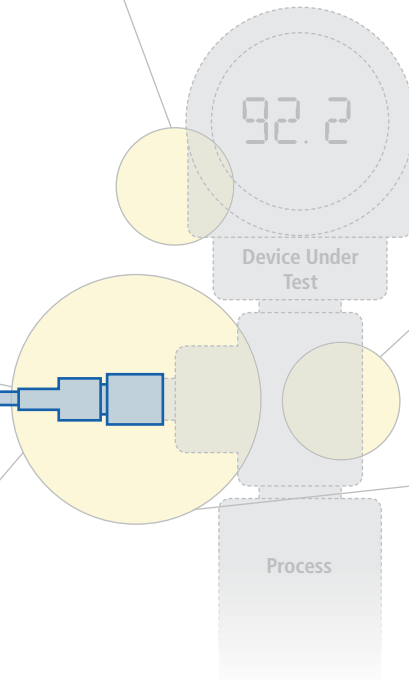
[p. 40](#)



Male Quick-connect

Connect a Ralston Quick-test™ hose to a female NPT port without using a wrench or thread sealant.

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Tube Fittings

Connect to Swagelok®, Parker®, Hoke® or equivalent tube fittings without a wrench. The fitting seals with an O-ring instead.

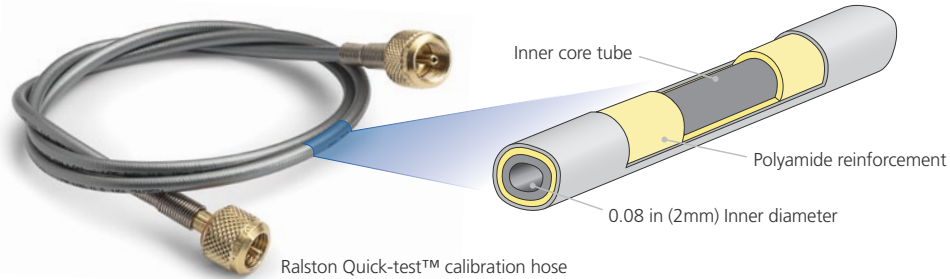
[p. 25](#)







Low Volume, High Pressure Ralston Quick-test™ Calibration Hoses

Keep calibrations quick and consistent.

The small inner diameter and low volume of Ralston Quick-test™ hoses make this hose ideal for transmitting high pressure while consuming very little compressed gas or fluid. Whether pressure is created hydraulically or pneumatically, less media is needed to generate and sustain the pressure required. This design makes calibrations faster and easier to complete while delivering precise results.



<h2>High Pressure Ralston Quick-test™ Hoses</h2> <p>Our standard Ralston Quick-test™ hoses provide a high pressure connection adaptable to all standard connection types and between all types of pressure references and pressure sources.</p> 	<h2>Hose Type</h2>	<h2>Extreme Pressure Ralston Quick-test™ XT Hoses</h2> <p>The Ralston Quick-test™ XT hoses provide one of the highest pressure ratings of any hose on the market. The Ralston Quick-test™ XT uses a unique, proprietary connection that cannot be accidentally mixed with the Ralston Quick-test™ hoses and adapters.</p> 
Up to 6,900 psi (475 bar)	<h3>Maximum Working Pressure</h3>	Up to 10,000 psi (689 bar)
27,000 psi (1,862 bar)	<h3>Burst Pressure</h3>	40,000 psi (2,758 bar)
Silver 	<h3>Hose Color</h3>	Blue 
1 in (25.4 mm)	<h3>Minimum Bend Radius</h3>	1 in (25.4 mm)

Hose Ends for Every Application

Get the right hose ends for your application.

After you determine which hose you need — either the silver, high pressure, Ralston Quick-test™ hose or the blue, extreme pressure, Ralston Quick-test™ XT hose — determine the hose length and the hose ends for your application. Ralston Instruments offers the Ralston Quick-test™ XT hose ends for extreme pressure, and Ralston Quick-test™, Male NPT, Tube Stub, and Tube Quick-connect hose ends for the high pressure Ralston Quick-test™ hoses.

Ralston Quick-test™ Hose Ends



Ralston Quick-test™ knurled nut and probe hose ends allow a pressure tight seal up to 6,900 psi (475 bar) to be created without thread sealant.



Ralston Quick-test™ Hose End
(Available in brass and stainless steel.)

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Male NPT Hose Ends

Male NPT hose ends provide a pressure tight connection up to 6,900 psi (475 bar) with any 1/8" or 1/4" NPT female process connection.

Thread sealant is required.



Male NPT 1/8" Hose End
(Available in 1/8" and 1/4")

[p. 13](#)

Tube Stub Hose Ends

Tube stub hose ends allow a pressure tight seal up to 6,900 psi (475 bar) to be created without thread sealant. These hose ends allow a tube fitting to be swaged onto the end of the hose. The nut and ferrules remain attached to the hose and can be remade as needed.



1/4" Tube Stub Hose End (Available in 1/8" brass and 1/8" stainless steel.)

[p. 13](#)

Tube Quick-connect Hose Ends

Tube Quick-connect hose ends allow a pressure tight seal up to 6,900 psi (475 bar) to be created without thread sealant.



Tube Quick-connect Hose End
(Available in 1/4" brass.)

[p. 13](#)

Female 37° Flare Hose Ends

Ralston Female AN hose ends connect directly to any male 37° flare AN JIC fitting to 5,000 psi (345 bar) without a wrench.



1/4" Female AN 37° Flare Hose End

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Ralston Quick-test™ XT Hose Ends



Ralston Quick-test™ XT hose ends allow a pressure tight seal up to 10,000 psi (689 bar) to be created without thread sealant.

Ralston Quick-test™ XT hose ends are not compatible with Ralston Quick-test™ hoses.



Ralston Quick-test™ XT Hose End

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Specialized Ralston Quick-test™ Kits

Kits take the guesswork out of selecting adapters by providing a selection of the most popular combinations of hoses and adapters.

Universal Ralston Quick-test™ Kit

The only hose and adapter kit you will ever need.

The Universal Ralston Quick-test™ Kit contains all the necessary fittings and hoses to connect to any pressure transmitter, gauge or manifold.

Model	Material
QTHA-KIT4	Brass and Stainless Steel
QTHA-KIT4-SS	Stainless Steel



Kit Includes:

- » 1/8" Male NPT x Male Quick-test Adapters, no check-valve
- » 1/4" Male NPT x Male Quick-test Adapters, no check-valve
- » 3/8" Male NPT x Male Quick-test Adapters, no check-valve
- » 1/2" Male NPT x Male Quick-test Adapters, no check-valve
- » 1/8" Female NPT x Male Quick-test Adapters, no check-valve
- » 1/4" Female NPT x Male Quick-test Adapters, no check-valve
- » 3/8" Female NPT x Male Quick-test Adapters, no check-valve
- » 1/2" Female NPT x Male Quick-test Adapters, no check-valve
- » 1/8" Female NPT Quick-connect x Male Quick-test Adapters, no check-valve
- » 1/4" Female NPT Quick-connect x Male Quick-test Adapters, no check-valve
- » 1/2" Female NPT Quick-connect x Male Quick-test Adapters, no check-valve
- » 1/4" Tube Fitting x Male Quick-test Adapter, no check-valve
- » 3/8" Tube Fitting x Male Quick-test Adapter, no check-valve
- » 1/2" Tube Fitting x Male Quick-test Adapters, no check-valve
- » Foxboro, Rosemount, Yokagawa 5/16"-24 UNF x Male Quick-test Adapters, no check-valve
- » Honeywell 1/4"-28 UNF X Male Quick-test Adapters, no check-valve
- » Hose Union – Male Quick-test x Male Quick-test Adapters
- » 1/8" Male NPT Quick-connect Adapter
- » 1/4" Male NPT Quick-connect Adapter
- » Quick-test Hose Hose Ends, 3 ft (92 cm) long
- » Quick-test Hose Hose Ends, 5 ft (1.52 m) long
- » Tee – Male Quick-test Run x Male Quick-test Run x Male Quick-test Branch

Ralston Quick-test™ Fitting Kits



The Ralston Quick-test™ Fitting kits include the most commonly used adapters so you have what you need in the field. Available in brass or stainless steel.

Kit Includes:

- » 1/8" Male NPT x Male Quick-test Adapters, no check-valve
- » 1/4" Male NPT x Male Quick-test Adapters, no check-valve
- » 1/8" Female NPT x Male Quick-test Adapters, no check-valve
- » 1/4" Female NPT x Male Quick-test Adapters, no check-valve
- » 1/4" Tube Fitting x Male Quick-test Adapters, no check-valve



Stainless steel shown. Also available in brass.

Model	Material
QTHA-KIT0	Brass
QTHA-KIT0-SS	Stainless Steel

Ralston Quick-test™ BSPP Fitting Kit



The Ralston Quick-test™ BSPP fitting kits allow you to connect to male or female BSPP gauges, hand pumps, pressure calibrators or transmitters.

Kit Includes:

- » G 1/8" Male BSPP (ISO 228/1) x Male Quick-test Adapters, no check-valve
- » G 1/4" Male BSPP (ISO 228/1) x Male Quick-test Adapters, no check-valve
- » G 1/8" Female BSPP (ISO 228/1) x Male Quick-test Adapters, no check-valve
- » G 1/4" Female BSPP (ISO 228/1) x Male Quick-test Adapters, no check-valve



BSPP sealing rings required. See page 44 for details.

Model	Material
QTHA-KIT1	Brass

Ralston Quick-test™ BSPT Fitting Kit



The Ralston Quick-test™ BSPT fitting kit allow you to connect to BSPT taper thread pressure gauges, transmitters and switches in the field.

Kit Includes:

- » 1/8" Male BSPT (ISO 7/1) x Male Quick-test Adapters, no check-valve
- » 1/4" Male BSPT (ISO 7/1) x Male Quick-test Adapters, no check-valve
- » 1/8" Female BSPT (ISO 7/1) x Male Quick-test Adapters, no check-valve
- » 1/4" Female BSPT (ISO 7/1) x Male Quick-test Adapters, no check-valve



Model	Material
QTHA-KIT2	Brass

Ralston Quick-test™ Replacement Outlet Hose Kits

Carrying a replacement hose and process connection will reduce down time due to not having the equipment needed to do the job.

Kit Includes:

- » 1/4" Male NPT x Male Quick-test, no check-valve
- » Quick-test 6,900 psi Hose, Brass Hose Ends, 3 ft (92 cm) long



Stainless steel shown. Also available in brass.

Model	Material
QTHA-KIT3	Brass
QTHA-KIT3-SS	Stainless Steel

Ralston Quick-test™ Hose Kits

The Ralston Quick-test™ hose kit allows you to connect to most pressure transmitters, manifolds or electronic flow measurement devices in the field.

Kit Includes:

- » (2) 1/8" Male NPT x Male Quick-test Adapters, no check-valve
- » (2) 1/4" Male NPT x Male Quick-test Adapters, no check-valve
- » (2) Quick-test 6,900 psi Hoses



Model	Length	Material
QTHA-KIT6-3ft	3 ft	Brass
QTHA-KIT6-6ft	6 ft	Brass

Accessories

Purchase a bag for your kit.

The nylon zippered bag holds coiled Ralston Quick-test™ hoses, calibration manifolds and adapters.

Model: QTHA-HSBG



Purchase a reel for long hoses.

The ABS plastic reel keeps 50 ft (15 meters) and longer Ralston Quick-test™ hoses from becoming tangled.

Model: QTHA-REEL



Hoses

Ralston Quick-test™ Hoses



Our hoses provide a very quick, low volume, high pressure way of connecting to any pressure instrumentation, hand pump, calibration source or device under test

- » Low volume reduces the pumping effort or compressed gas usage in pressure calibration
- » No thread sealant required — connect hoses to Ralston Quick-test™ adapters without wrenches, thread sealant or thread tape
- » Hose is hard to break and very flexible
- » Silver color dramatically reduces the effect that changing temperature has on pressure stability
- » Made in USA



Female Quick-test, Brass 3 ft shown

Pressure Range	0 to 6,900 psi (0 to 475 bar)	Minimum Bend Radius	1 in (25.4 mm)
Burst Pressure	27,000 psi (1,860 bar)	Color	Silver
Temperature Range	-40 to 140 °F (-40 to 60 °C)	Construction	Polyamide core tube, High tensile synthetic fiber and polyamide outer cover
Outer Diameter	0.2 in (5.1 mm)	Fluid Media	Water, Petroleum Based Oil, Air, Inert Gas
Inner Diameter	0.08 in (2.0 mm)		

Order Ralston Quick-test™ Hoses with Female Ralston Quick-test™ Ends

Model	Material	Length	Model	Material	Length
QTQT-HOS-3ft	Brass	3 ft	QSQS-HOS-3ft	Stainless Steel	3 ft
QTQT-HOS-5ft	Brass	5 ft	QSQS-HOS-5ft	Stainless Steel	5 ft
QTQT-HOS-6ft	Brass	6 ft	QSQS-HOS-6ft	Stainless Steel	6 ft
QTQT-HOS-1m	Brass	1 m	QSQS-HOS-1m	Stainless Steel	1 m
QTQT-HOS-2m	Brass	2 m	QSQS-HOS-2m	Stainless Steel	2 m

Also available in these standard lengths:

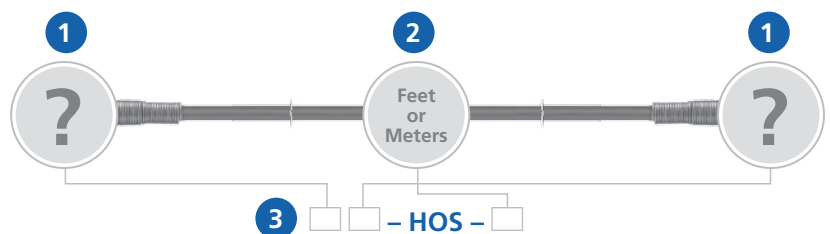
0.5ft, 1ft, 1.5ft, 2ft, 3ft, 5ft, 6ft, 8ft, 10ft, 15ft, 20ft, 25ft, 30ft, 50ft, 75ft, 100ft, 200 ft, 0.25m, 0.5m, 0.75m, 1m, 1.5m, 2m, 2.5m, 3m, 4m, 5m, 7.5m, 10m, 15m, 20m, 25m, 30m, 50m

Select from the list of standard lengths and add to QTQT-HOS- for brass, or QSQS-HOS- for stainless steel.

Create Custom Length Ralston Quick-test™ Hoses

Do you need a custom length hose? You can easily order a hose in any desired length from 0.5 ft to 200 ft with either brass or stainless steel female Ralston Quick-test™ ends. Hoses longer than 50 ft include a hose reel at no additional charge.

Note: Custom hoses are non-returnable except for warranty reasons.



- 1 Choose brass (QT) or stainless steel (QS) ends.
- 2 Choose length in feet (ft) or meters (m).
- 3 Create a custom Ralston model number.

Example: QTQT-HOS-16ft indicates a 16 ft long hose with brass, Female Ralston Quick-test™ ends.

Create custom hoses at
ralstoninst.com/hoses

Ralston Quick-test™ XT Hoses



Our 10,000 psi (689 bar) working pressure hoses provide a very quick, low volume, high pressure way of connecting to any pressure instrumentation, hand pump, calibration source or device under test

- » Low volume reduces the pumping effort or compressed gas usage in pressure calibration
- » No thread sealant required — connect hoses to Ralston Quick-test™ XT adapters without wrenches, thread sealant or thread tape
- » Bubble tight connections to 10,000 psi (689 bar) with no moving parts reduces maintenance to almost zero
- » Hose is hard to break and very flexible
- » Adapt from hose to virtually any device under test with only one connection
- » A corrosion resistant strain-relief on each hose end reduces wear and dramatically increases hose life
- » Note that these hoses are NOT compatible with QTHA adapters. Please use XTHA adapters
- » Made in USA



Stainless Steel 3 ft shown

Pressure Range	0 to 10,000 psi (0 to 689 bar)	Minimum Bend Radius	1 in (25.4 mm)
Burst Pressure	40,000 psi (2,756 bar)	Color	Blue
Temperature Range	-40 to 140 °F (-40 to 60 °C)	Construction	Polyamide core tube, High tensile synthetic fiber and polyamide outer cover
Outer Diameter	0.24 in (6.1 mm)	Fluid Media	Water, Petroleum Based Oil, Air, Inert Gas
Inner Diameter	0.08 in (2.0 mm)		

Order Ralston Quick-test™ XT Hoses with Female Ralston Quick-test™ XT Ends

Model	Material	Length	Model	Material	Length
XTXT-HOS-3ft	Stainless Steel	3 ft	XTXT-HOS-1m	Stainless Steel	1 m
XTXT-HOS-6ft	Stainless Steel	6 ft	XTXT-HOS-2m	Stainless Steel	2 m
XTXT-HOS-10ft	Stainless Steel	10 ft			

Also available in these standard lengths:

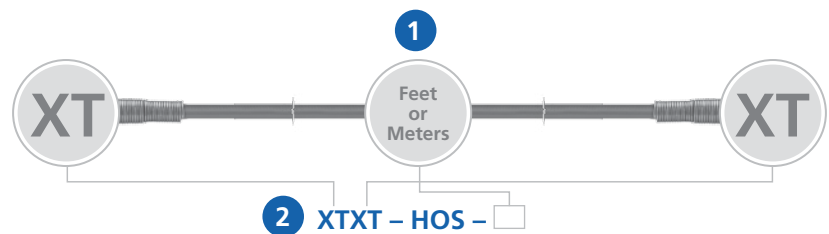
0.5ft, 1ft, 1.5ft, 2ft, 3ft, 5ft, 6ft, 8ft, 10ft, 15ft, 20ft, 25ft, 30ft, 50ft, 75ft, 100ft, 200 ft, 0.25m, 0.5m, 0.75m, 1m, 1.5m, 2m, 2.5m, 3m, 4m, 5m, 7.5m, 10m, 15m, 20m, 25m, 30m, 50m

Select from the list of standard lengths and add to XTXT-HOS-.

Create Custom Length Ralston Quick-test™ XT Hoses

Do you need a custom length hose? You can easily order a hose in any desired length from 0.5 ft to 200 ft with stainless steel female Ralston Quick-test™ XT ends. Hoses longer than 50 ft include a hose reel at no additional charge.

Note: Custom hoses are non-returnable except for warranty reasons.



- 1 Choose length in feet (**ft**) or meters (**m**).
- 2 Create a custom Ralston model number.

Example: XTXT-HOS-130ft indicates a 130 ft long hose with stainless steel, Female Ralston Quick-test™ XT ends.

Create custom hoses at
ralstoninst.com/hoses

Custom Ralston Quick-test™ Hoses

6,900 psi (475 bar) working pressure hoses with Ralston Quick-test™, Male NPT, Tube Stub, and Tube Quick-connect hose ends

- » Low volume reduces the pumping effort or compressed gas usage in pressure calibration
- » No thread sealant required — connect hoses to Ralston Quick-test™ adapters without wrenches, thread sealant or thread tape
- » Bubble tight connections to 6,900 psi with no moving parts
- » No moving parts reduces maintenance to almost zero
- » Hose is hard to break and very flexible
- » Adapt from hose to virtually any device under test with only one connection
- » Silver color dramatically reduces the effect that changing temperature has on pressure stability
- » A strain-relief on each hose end reduces wear and dramatically increases hose life
- » Made in USA

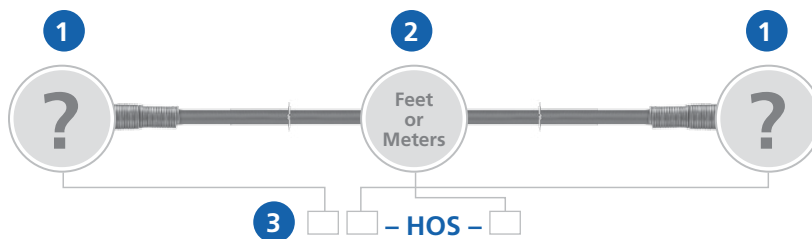


Stainless Steel 3 ft shown

Create Custom Ralston Quick-test™ Hoses

You can easily order a custom hose in any desired length from 0.5 ft to 200 ft with a large selection of hose ends to meet your specific application. Hoses longer than 50 ft include a hose reel at no additional charge.

Note: Custom hoses are non-returnable except for warranty reasons.



- 1 Choose hose ends from the table to the right.
- 2 Choose length in feet (**ft**) or meters (**m**).
- 3 Create a custom Ralston model number.

Example: 1MQT-HOS-16ft indicates a 16 ft long hose with a brass, 1/8"-27 NPT male end and a brass, Female Quick-test end.

1 Choose Any Standard Connection

Model	End	Material
QT	Female Quick-test	Brass
QS	Female Quick-test	Stainless Steel
1M	1/8" -27 NPT male	Brass
2M	1/4" -18 NPT male	Brass
1P	1/8" tube stub	Brass
1S	1/8" tube stub	Stainless Steel
2S	1/4" tube stub	Stainless Steel
2T	1/4" tube connection (Quick-connect)	Brass
2L	1/4" AN JIC Female Flare	Stainless Steel

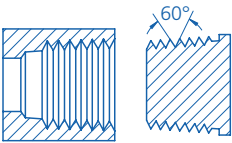
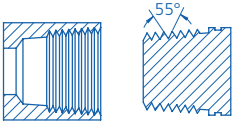
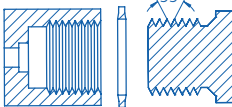
Create custom hoses at
ralstoninst.com/hoses

Select the Right Adapter for your Application

The reference guides below make it easy for you to determine which adapters or fittings you need for your application.

NPT, BSPT or BSPP Adapters — Which Do You Need?

Pressure systems in the process industry use different methods of sealing depending on the geographical region, size of the pressure system and the environment. There are regional differences in sealing types as well as industry preferences. For example, many pressure systems on-board ships use BSPP adapters while many applications in the oil and gas industry use NPT fittings. While one sealing style is not inherently better than another each style has its application.

Seal Type	Geographic Region	Application	Design	Standard
NPT (National Pipe Thread) 	It is the predominantly used connection in North America but is also used in Australia, parts of Europe and the rest of the world.	Oil and gas pressure systems, hydraulic and pneumatic systems throughout the world.	NPT male adapters have a taper thread that wedges into the female NPT connection. The male stretches the female fitting until there is enough force for the connection to hold pressure. The angle across the threads is 60 degrees. Thread sealant is required to form a pressure tight seal.	» ASME B1.20.1 » SAE AS71051
BSPT (British Standard Pipe Thread) 	Primarily Asia. Occasionally BSPT will be found in the UK and Europe but are less common there.	Oil and gas pressure systems, hydraulic and pneumatic systems throughout the world.	BSPT is similar to NPT except for one important difference. The angle across the flanks of threads is 55 degrees instead of 60 degrees as it is for NPT. Thus, an NPT male will fit into a BSPT fitting or vice versa but they will not seal . Thread sealant is required to form a pressure tight seal.	» ISO 7 » BS EN 10226-1 » JIS B0203
BSPP (British Standard Parallel Pipe) 	Most popular in the UK, Europe, Asia, Australia, New Zealand and South Africa but has less frequent use in the rest of the world.	Oil and gas pressure systems, hydraulic and pneumatic systems throughout the world. This is also used as the process connection on several of our competitors' hand pumps and pressure calibrators.	BSPP is a parallel thread fitting that uses a bonded seal ring to do the sealing. This bonded ring seal is sandwiched between a shoulder on the male fitting and the face of the female fitting and is squeezed in place. BSPP pressure gauges have a longer male thread and use a copper crush washer that is squeezed between the bottom of the male fitting and the bottom of the female BSPP hole forming a pressure tight seal. No thread sealant is needed to form a seal.	» ISO 228 » JIS B0202

Find the Right Adapter with NPT, BSPT or BSPP Seals

NPT Connections:

- » Male NPT Adapters [p. 16](#) [p. 18](#)
- » Male Quick-connect NPT adapters [p. 17](#) [p. 19](#)
- » Male NPT Calibrator Adapters [p. 20](#)
- » Female NPT Adapters [p. 21](#)
- » Female NPT Gauge Adapters [p. 22](#)
- » Female Quick-connect NPT Gauge Adapters [p. 23](#)
- » Female NPT Bulkhead Unions [p. 24](#)

BSPT Connections:

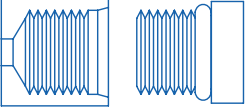
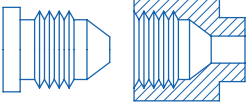
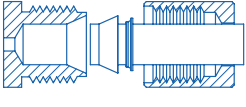
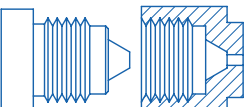
- » Male BSPT Adapters [p. 31](#) [p. 32](#)
- » Female BSPT Adapters [p. 32](#)

BSPP Connections:

- » Male BSPP Adapters [p. 28](#) [p. 29](#)
- » Female BSPP Adapters [p. 30](#)
- » Female BSPP Gauge Adapters [p. 30](#)
- » Female BSPP Quick-connect Gauge Adapters [p. 31](#)

How SAE O-ring, Flare Fittings, Tube Fittings, Medium Pressure and High Pressure Seals Work And Which Connection Is Right For You

There are several connections that are used for higher pressure connections where taper seals are not ideal. These connections use either a metal to metal seat or an O-ring seal to make a pressure tight seal at high pressures.

Seal Type	Geographic Region	Application	Design	Standard
SAE Straight Thread O-ring Seal 	Primarily US, Canada and Mexico although it is used in automotive applications throughout the world.	This seal is popular in automotive applications and in other situations where heating, cooling and vibration are an issue. All ports on Ralston Instruments hand pumps, calibration manifolds, volume controllers and fluid traps use an SAE O-ring boss seal.	The Society of Automotive Engineers (SAE) O-ring boss seal uses a male fitting with an O-ring to seal in a female port with an angled section where the O-ring seats. Unlike NPT seals that stretch the female portion, SAE seals use straight threads and therefore do not damage the mating part. No thread sealant is needed to form a seal.	» ISO 11926 » SAE J1926
37° Flare JIC (AN) Seal 	This type of fitting is used predominantly in the US, Canada with lesser usage in the UK and Australia	These seals are used for fluid power and hydraulic applications in military, aerospace, marine and chemical and petrochemical plants. Despite their effective sealing method, these fittings are time consuming to prepare and in newer applications have been replaced by flareless tube fittings.	The 37° flare AN seal is used for sealing tubing to end connections. It requires the end of the tube to have a nut slipped onto it and then flared out using a special tool. To seal properly, the nut is threaded into a flare fitting which clamps the flared tube in between the nut and flare fitting. No thread sealant is needed to form a seal.	» SAE J514 » MIL-F-18866
Flareless Tube Seal 	Worldwide usage. In North America primarily fractional tube fittings are used while metric tube fittings are used throughout the world.	This seal is used in the nuclear and process industries, oil and gas, chemical and petrochemical, power, semiconductor and alternative fuels applications	Flareless tube fitting connections such as those made by Swagelok®, Parker®, Hoke®, Gyrolok® and Tylok® use a set of ferrules and a nut to dig into a piece of tubing to form a pressure seal on a piece of copper, steel or stainless steel tubing. These are effective because there is no end preparation required to make a good seal. No thread sealant is needed to form a seal.	No international standard. Proprietary standards of Swagelok®, Parker Hannifin®, Hoke®, Tylok® and others
Medium and High Pressure Seals 	Worldwide for high pressure applications	These connections are used in product testing, down-hole tool testing, chemical and petrochemical, research, oil and gas or in any very high pressure application. A 1/4" Medium Pressure seal is also used as the process connection on one of our competitors' pressure gauges and calibrators.	Medium and High pressure adapters use a coned and threaded connection that provides leak-tight service to well over 60,000 psi pressure but require some tube preparation. Each tube must be coned and threaded with two separate tools before they are ready for use. No thread sealant is needed to form a seal.	No international standard. Proprietary standards of HiP®, Autoclave Engineers®, Butech®

Find Adapters with SAE, Flare, Tube Fitting, Medium and High Pressure Seals

SAE Seals:

- » SAE/MS Male Ralston Quick-test™ Adapters [p. 35](#)

37° Flare AN:

- » 37° Flare (AN) Quick-connect Adapters [p. 26](#)

Flareless Tube Seal:

- » Tube Fitting Ralston Quick-test™ Adapters [p. 25](#)
- » Tube Fitting Ralston Quick-test™ Bulkhead Unions [p. 26](#)

Medium and High Pressure Seals:

- » Medium Pressure Ralston Quick-test™ and Ralston Quick-test™ XT Adapters [p. 32](#) [p. 33](#)
- » High Pressure Ralston Quick-test™ and Ralston Quick-test™ XT Adapters [p. 33](#) [p. 34](#)

NPT Connections

NPT Male Ralston Quick-test™ Adapters



Connects Female NPT to Ralston Quick-test™ hoses.

- » Ideal for connecting to pressure transmitters or other devices under test using thread sealant
- » Quickly connect and disconnect Quick-test hoses for testing, calibrating and sampling
- » Made in USA



Insider Connection

This connection has saved technicians countless hours of thread taping and searching for wrenches. Install it once with thread sealant. After that, connect a Ralston Quick-test™ hose to it without thread sealant or a wrench.



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1MB0	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.2 in (3.05 cm)
QTHA-1MB1	1/8"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.2 in (3.05 cm)
QTHA-1MS0	1/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.2 in (3.05 cm)
QTHA-1MS1	1/8"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.2 in (3.05 cm)
QTHA-2MB0	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.29 in (3.28 cm)
QTHA-2MB1	1/4"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.29 in (3.28 cm)
QTHA-2MS0	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.29 in (3.28 cm)
QTHA-2MS1	1/4"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.29 in (3.28 cm)
QTHA-3MB0	3/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.4 in (3.56 cm)
QTHA-3MB1	3/8"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	3/4 in (19 mm)	1.4 in (3.56 cm)
QTHA-3MS0	3/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.4 in (3.56 cm)
QTHA-3MS1	3/8"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	3/4 in (19 mm)	1.4 in (3.56 cm)
QTHA-4MB0	1/2"	No	Brass	0 to 5,000 psi (0 to 345 bar)	7/8 in (23 mm)	1.57 in (3.99 cm)
QTHA-4MB1	1/2"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	7/8 in (23 mm)	1.57 in (3.99 cm)
QTHA-4MS0	1/2"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	7/8 in (23 mm)	1.57 in (3.99 cm)
QTHA-4MS1	1/2"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	7/8 in (23 mm)	1.57 in (3.99 cm)
QTHA-6MB0	3/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	1-1/16 in (27 mm)	1.81 in (4.60 cm)
QTHA-6MB1	3/4"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	1-1/16 in (27 mm)	1.81 in (4.60 cm)

NPT Male Quick-connect Adapters

Make a bubble-tight seal on any Female NPT pressure device without using thread sealant or a wrench.

- » A unique design allows connection to standard female NPT ports using a pressure-assisted O-ring seal
- » Pressure helps to seal the fitting better
- » Stainless steel construction
- » Made in USA



1/8" NPT Quick-connect shown (QTHA-1MS0-QD)

Insider Connection

This adapter is great for contractors or in cases where users do not have the option of leaving an adapter installed in the pressure transmitter. Just thread the adapter into any female NPT port and apply pressure. The O-ring seals do the rest. When finished, simply unthread the fitting from the transmitter — all without a wrench or thread sealant.



Model	Size	Check Valve	Material	Pressure Range	Length
QTHA-1MS0-QD	1/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.75 in (4.45 cm)
QTHA-2MS0-QD	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.88 in (4.78 cm)

NPT Male Ralston Quick-test™ XT Adapters

Connects Female NPT to Ralston Quick-test™ XT 10,000 psi hoses

- » Ideal for connecting to pressure transmitters or other devices under test using thread sealant
- » Quickly connect and disconnect Ralston Quick-test™ XT hoses for testing, calibrating and sampling
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA



Stainless Steel 1/8" NPT shown (XTHA-1MS0)

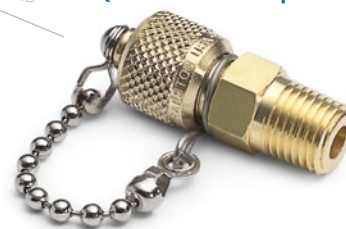
Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
XTHA-1MS0	1/8"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	5/8 in (16 mm)	1.31 in (3.33 cm)
XTHA-2MS0	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	5/8 in (16 mm)	1.29 in (3.28 cm)

NPT Male Ralston Quick-test™ Fittings

Install permanently on pressure devices. A removable cap provides easy access to connect a Ralston Quick-test™ hose to the process for calibration purposes and is easily sealed bubble-tight again when calibration is complete

- » Connect to pressure transmitters, EFM's, Flow Computers and other NPT devices under test using thread sealant for a permanent connection
- » A cap and chain makes calibration easy and quick by connecting and disconnecting a hose without a wrench or thread sealant
- » Made in USA

 Male Quick-test with Cap and Chain



Brass 1/4" shown (QTFT-2MB0)

 Male NPT

Insider Connection

Many users leave the Ralston Quick-test™ fitting installed in the pressure transmitter vent port. When they need to calibrate the transmitter they simply have to remove the cap and chain to conduct the test. When they are done they just take the hose off and replace the cap and chain — it couldn't be easier.



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTFT-1MB0	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.76 in (4.47 cm)
QTFT-1MB1	1/8"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.76 in (4.47 cm)
QTFT-1MS0	1/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.76 in (4.47 cm)
QTFT-1MS1	1/8"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.76 in (4.47 cm)
QTFT-2MB0	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.85 in (4.70 cm)
QTFT-2MB1	1/4"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.85 in (4.70 cm)
QTFT-2MS0	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.85 in (4.70 cm)
QTFT-2MS1	1/4"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.85 in (4.70 cm)
QTFT-3MB0	3/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.97 in (5.00 cm)
QTFT-3MB1	3/8"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	3/4 in (19 mm)	1.97 in (5.00 cm)
QTFT-3MS0	3/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.97 in (5.00 cm)
QTFT-3MS1	3/8"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	3/4 in (19 mm)	1.97 in (5.00 cm)
QTFT-4MB0	1/2"	No	Brass	0 to 5,000 psi (0 to 345 bar)	7/8 in (23 mm)	2.14 in (5.44 cm)
QTFT-4MB1	1/2"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	7/8 in (23 mm)	2.14 in (5.44 cm)
QTFT-4MS0	1/2"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	7/8 in (23 mm)	2.14 in (5.44 cm)
QTFT-4MS1	1/2"	Yes	Stainless Steel	0 to 3,000 psi (0 to 207 bar)	7/8 in (23 mm)	2.14 in (5.44 cm)
QTFT-6MB0	3/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	1-1/16 in (27 mm)	2.38 in (6.05 cm)
QTFT-6MB1	3/4"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	1-1/16 in (27 mm)	2.38 in (6.05 cm)



NPT Male Quick-connect Fittings

Make calibrating pressure transmitters a snap by eliminating the need for thread sealant or wrenches when connecting to any female NPT connection

- » A unique design allows connection to standard female NPT ports using a pressure-assisted O-ring seal
- » Pressure helps to seal the fitting better
- » A cap and chain makes calibration easy and quick by connecting and disconnecting a hose without a wrench or thread sealant
- » Stainless steel construction
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Length
QTFT-1MS0-QD	1/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	2.29 in (5.82 cm)
QTFT-2MS0-QD	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	2.34 in (5.94 cm)

NPT Male Ralston Quick-test™ XT Fittings



Connects Female NPT to Quick-test XT 10,000 psi hoses for permanent installation

- » Connect to pressure transmitters, EFMs, Flow Computers and other NPT devices under test using thread sealant for a permanent connection
- » Cap and chains make calibration easy and quick by connecting and disconnecting without a wrench or thread sealant
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
XTFF-1MS0	1/8"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	5/8 in (16 mm)	1.88 in (4.78 cm)
XTFF-2MS0	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	5/8 in (16 mm)	1.85 in (4.70 cm)

NPT Male Ralston Quick-test™ Pressure Calibrator Adapters



Quickly connect a pressure calibrator or other pressure device with Female NPT connections to Ralston hand pumps or nitrogen calibration equipment

- » Connect to any pressure calibrator or pressure module with Female NPT connections
- » Allows the calibrator and pressure source to be easily disconnected and stored separately
- » Made in USA

Female Quick-test



Brass 1/8" NPT shown
(QTHA-1MBA)

Male NPT

Insider Connection

This fitting works well on any pressure calibrator or pressure module with female NPT process connections. Install this fitting into the calibrator with thread sealant once. After that, use the Ralston Quick-test™ connection to connect and disconnect by hand without a wrench or thread sealant. This allows the user to disconnect a pressure calibrator from their pressure source for storage or to switch pressure ranges.



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1MBA	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.55 in (3.94 cm)
QTHA-1MSA	1/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.55 in (3.94 cm)
QTHA-2MBA	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.68 in (4.27 cm)
QTHA-2MSA	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.68 in (4.27 cm)

NPT Male Ralston Quick-test™ XT Pressure Calibrator Adapters



Quickly connect a pressure calibrator or other pressure device with Female NPT connections to Ralston hand pump or nitrogen calibration equipment to 10,000 psi

- » Connect to any pressure calibrator or pressure module with Female NPT connections
- » Allows the calibrator and pressure source to be easily disconnected and stored separately
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA

Female Quick-test XT



Stainless Steel 1/8" NPT shown
(XTHA-1MSA)

Male NPT

Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
XTHA-1MSA	1/8"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	9/16 in (15 mm)	1.44 in (3.66 cm)
XTHA-2MSA	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	9/16 in (15 mm)	1.67 in (4.24 cm)

NPT Female Ralston Quick-test™ Adapters

Connect a Quick-test hose to a pressure gauge or any device with a male NPT connection using thread sealant and a wrench

- » Connect to pressure gauges with NPT connections
- » Adapt to a wide range of Male NPT process connections
- » Made in USA

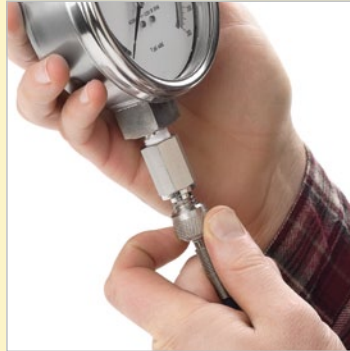

Male Quick-test


1/4" Brass NPT shown
(QTHA-2FB0)


Female NPT

Insider Connection

This fitting is great for connecting to a pressure gauge on the end of a hose. It allows the user to position the gauge so that it is easier to read and calibrate.



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1FB0	1/8"	No	Brass	0 to 5000 psi (0 to 345 bar)	5/8 in (16 mm)	1.38 in (3.51 cm)
QTHA-1FB1	1/8"	Yes	Brass	0 to 3000 psi (0 to 207 bar)	5/8 in (16 mm)	1.38 in (3.51 cm)
QTHA-1FS0	1/8"	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)	5/8 in (16 mm)	1.38 in (3.51 cm)
QTHA-1FS1	1/8"	Yes	Stainless Steel	0 to 3000 psi (0 to 207 bar)	5/8 in (16 mm)	1.38 in (3.51 cm)
QTHA-2FB0	1/4"	No	Brass	0 to 5000 psi (0 to 345 bar)	3/4 in (19 mm)	1.57 in (3.99 cm)
QTHA-2FB1	1/4"	Yes	Brass	0 to 3000 psi (0 to 207 bar)	3/4 in (19 mm)	1.57 in (3.99 cm)
QTHA-2FS0	1/4"	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)	3/4 in (19 mm)	1.57 in (3.99 cm)
QTHA-2FS1	1/4"	Yes	Stainless Steel	0 to 3000 psi (0 to 207 bar)	3/4 in (19 mm)	1.57 in (3.99 cm)
QTHA-3FB0	3/8"	No	Brass	0 to 5000 psi (0 to 345 bar)	15/16 in (24 mm)	1.32 in (3.35 cm)
QTHA-3FB1	3/8"	Yes	Brass	0 to 3000 psi (0 to 207 bar)	15/16 in (24 mm)	1.32 in (3.35 cm)
QTHA-3FS0	3/8"	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)	15/16 in (24 mm)	1.32 in (3.35 cm)
QTHA-3FS1	3/8"	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)	15/16 in (24 mm)	1.32 in (3.35 cm)
QTHA-4FB0	1/2"	No	Brass	0 to 5000 psi (0 to 345 bar)	1-1/8 in (29 mm)	1.66 in (4.22 cm)
QTHA-4FS0	1/2"	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)	1-1/8 in (29 mm)	1.66 in (4.22 cm)
QTHA-6FB0	3/4"	No	Brass	0 to 5000 psi (0 to 345 bar)	1-3/8 in (35 mm)	1.59 in (4.04 cm)

NPT Female Ralston Quick-test™ XT Adapters



Connect a Ralston Quick-test™ XT hose to an NPT pressure gauge or any Male NPT device using thread sealant and a wrench

- » Connect to pressure gauges with NPT connections
- » Adapt to a wide range of Male NPT process connections to 10,000 psi
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA

Male Quick-test XT



1/4" NPT shown (XTHA-2F50)

Female NPT

Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
XTHA-1F50	1/8"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	5/8 in (16 mm)	1.38 in (3.51 cm)
XTHA-2F50	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	3/4 in (19 mm)	1.56 in (3.96 cm)

NPT Female Ralston Quick-test™ Gauge Adapters



Connect a pressure gauge or other device with Male NPT connections to a Ralston hand pump or nitrogen calibration device

- » Install with thread tape onto a male NPT pressure gauge. Then use the Ralston Quick-test™ connection to quickly connect or disconnect from any Ralston hand pump, nitrogen calibration device or other Ralston Quick-test™ adapter
- » Saves the threads on a pressure gauge by not needing to make and remake the connection with thread sealant
- » Made in USA

Female Quick-test



Brass 1/4" NPT shown (QTHA-2FBA)

Female NPT

Insider Connection

These adapters are perfect for connecting pressure gauges to hand pumps or other pressure sources. Install the fitting onto the gauge once with thread sealant. After that, the user can connect and disconnect from a hand pump, pressure source or sampling cylinder without a wrench or thread sealant.



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1FBA	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	5/8 in (16 mm)	1.3 in (3.30 cm)
QTHA-2FBA	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.52 in (3.86 cm)
QTHA-2FSA	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.52 in (3.86 cm)

NPT Female Quick-connect Adapters

Connect a Ralston Quick-test™ hose to a male NPT pressure gauge, calibrate the gauge and disconnect from the gauge, all without thread sealant or a wrench.

- » A unique design allows connection to any male NPT pressure gauge connection using a pressure-assisted O-ring seal that seals against the bottom of a pressure gauge
- » Pressure helps to seal the fitting better
- » Stainless steel construction
- » Made in USA

Male Quick-test

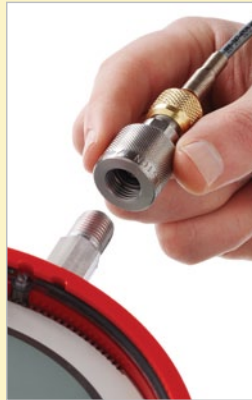


1/8" NPT Quick-connect shown (QTHA-1FS0-QD)

Female NPT Quick-connect

Insider Connection

Connect these adapters with male Ralston Quick-test™ ends to a Ralston Quick-test™ hose on one end, and to a pressure gauge on the other. They allow the user to position the pressure gauge for easy calibration.



Insider Connection

Connect these adapters with female Ralston Quick-test™ ends directly to a Ralston hand pump, volume controller, nitrogen source or calibration manifold. The user can switch NPT sizes depending on the process connection of the gauge they are calibrating.



Model	Size	Check Valve	Quick-test end	Material	Pressure Range	Length
QTHA-1FS0-QD	1/8"	No	Male Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.52 in (3.86 cm)
QTHA-1FSA-QD	1/8"	No	Female Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.78 in (4.52 cm)
QTHA-2FS0-QD	1/4"	No	Male Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.67 in (4.24 cm)
QTHA-2FSA-QD	1/4"	No	Female Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.94 in (4.93 cm)
QTHA-4FS0-QD	1/2"	No	Male Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.69 in (4.29 cm)
QTHA-4FSA-QD	1/2"	No	Female Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.95 in (4.95 cm)

NPT Female Ralston Quick-test™ Bulkhead Unions

Connect a hose on one side of a panel, wall or enclosure with female NPT on the other side

- » Bulkhead seals prevent liquid or moisture from getting into a control panel or enclosure
- » Use to connect fittings on the inside of an enclosure to a Ralston Quick-test™ hose on the outside of the enclosure
- » Will connect through a wall that is up to 0.5 in (1.3 cm) thick
- » Made in USA

Male Quick-test

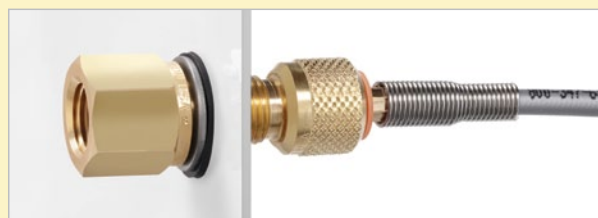


Brass 1/4" NPT shown
(QTHA-HFBB-2F)

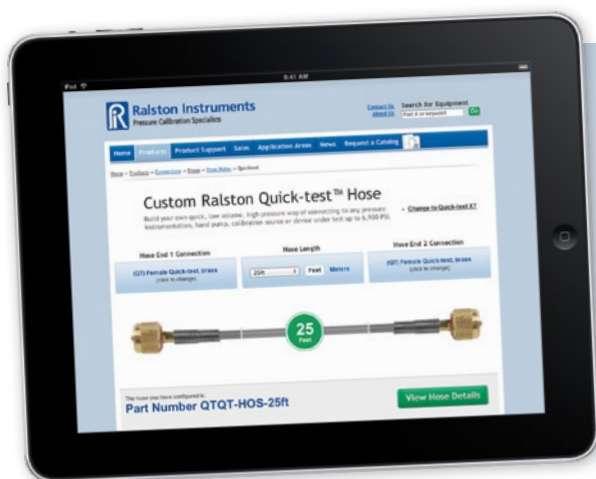
Female NPT

Insider Connection

These adapters are excellent for connecting a Ralston Quick-test™ hose to a system which uses NPT fittings inside an enclosure. Just connect to an NPT fitting on the inside and a Ralston Quick-test™ hose on the outside.



Model	Size	Check Valve	Cap and Chain	Material	Pressure Range	Wrench Size	Length
QTHA-HFBB-2F	1/4"	No	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.79 in (4.55 cm)
QTHA-HFSB-2F	1/4"	No	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.79 in (4.55 cm)
QTFT-HFBB-2F	1/4"	No	Yes	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	2.36 in (5.99 cm)
QTFT-HFSB-2F	1/4"	No	Yes	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	2.36 in (5.99 cm)



Ralston Hose Configurator

Create custom, low volume, high pressure Ralston Quick-test™ hoses with any combination of hose ends.

- » Choose hose ends and desired length
- » Get a custom data sheet for each hose
- » Get sales info specific to your hose

ralstoninst.com/hoses

Tube Fitting Adapters

Tube Fitting Ralston Quick-test™ Adapters



Make a bubble-tight connection to any Swagelok®, Parker®, Hoke®, SSP®, Tylok® or equivalent tube fitting without a wrench

- » An excellent solution for connecting to tube fittings for pressure calibration, gas sampling, pressure reading and testing
- » A unique design that seals on an O-ring to prevent damage to a tube fitting
- » Make and remake hundreds of times without over-tightening a tube fitting
- » Made in USA

Male Quick-test

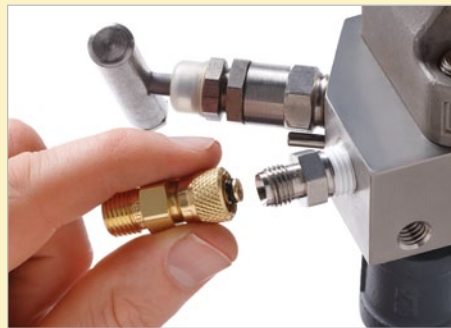


Brass 1/4" Tube Adapter shown (QTHA-2TB0)

Female Tube Quick-connect

Insider Connection

Instead of connecting to a pressure transmitter with a tube fitting using a wrench, the user can connect with a Ralston tube adapter which uses an O-ring seal. This design allows the user to connect repeatedly without over-tightening a tube fitting or damaging it.



Model	Size	Check Valve	Material	Pressure Range	Length
QTHA-1TS0-QD	1/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.65 in (4.19 cm)
QTHA-2TB0	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.47 in (3.73 cm)
QTHA-2TS0	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.47 in (3.73 cm)
QTHA-3TB0	3/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.53 in (3.89 cm)
QTHA-3TS0	3/8"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.53 in (3.89 cm)
QTHA-4TB0	1/2"	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.7 in (4.32 cm)
QTHA-4TS0	1/2"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.7 in (4.32 cm)
QTHA-MTB0-6mm	6 mm	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.47 in (3.73 cm)
QTHA-MTB0-10mm	10 mm	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.5 in (3.81 cm)

Tube Fitting Ralston Quick-test™ Bulkhead Unions



Connect a Quick-test hose on one side of a panel, wall or enclosure and a tube fitting on the other

- » Bulkhead seals prevent liquid or moisture from getting into a control panel or enclosure
- » Use to connect tube fittings on the inside of an enclosure to a Ralston Quick-test™ hose on the outside of the enclosure
- » Will connect through a wall that is up to 0.5 in (1.3 cm) thick
- » Made in USA



Model	Size	Cap and Chain	Material	Working Pressure	Wrench Size	Length
QTHA-HTBB-2T	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.12 in (2.84 cm)
QTFT-HTBB-2T	1/4"	Yes	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	2.35 in (5.97 cm)

Flare Fitting

37° Flare (AN) Quick-connect Adapters



Connect a male 37° flare fitting to a Ralston Quick-test™ hose without a wrench

- » A unique design allows connection to standard male 37° flare fitting using a pressure-assisted O-ring seal
- » Pressure helps to seal the fitting better
- » Stainless steel construction
- » Made in USA



Insider Connection

Whether it is in military, marine or aerospace applications, AN fittings are very popular. This connection allows the user to connect to an AN 37° male connection without a wrench, greatly saving time and effort.



Model	End 1	End 2	Check Valve	Material	Working Pressure
QTHA-2FSF-QD	1/4" Female Flare with Quick-Disconnect	Male Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)
QTHA-2FSA-AN-QD	1/4" Female Flare with Quick-Disconnect	Female Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)

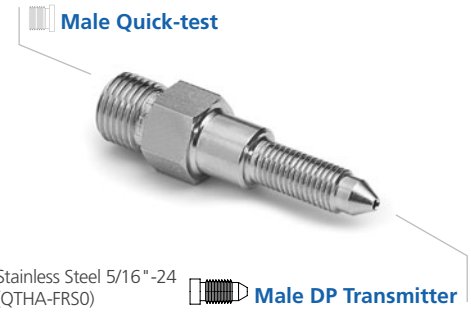
DP Transmitter Bleed Port

DP Transmitter Ralston Quick-test™ Adapters



Connect a Ralston Quick-test™ hose directly to a Differential Pressure (DP) transmitter using the bleeder port.

- » This unique fitting makes a metal to metal seat on the transmitter and a Ralston Quick-test™ hose can be attached on the other side
- » Connects where the bleeder screw goes into a DP transmitter
- » Made in USA



Insider Connection

Simply remove the bleeder screw in a DP pressure transmitter manifold and thread in a DP transmitter adapter. This saves having to remove and connect the NPT plug using a wrench and thread sealant each time the user calibrates the transmitter.



Model	Size	Check Valve	Material	Working Pressure	Wrench Size	Length	Types of Transmitters
QTHA-FRSO	5/16"-24	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	2.16 in (5.49 cm)	Foxboro, Rosemount, Yokogawa, ABB
QTHA-HNSO	1/4"-28	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	2.02 in (5.13 cm)	Honeywell

DP Transmitter Ralston Quick-test™ Fittings



Ideal for situations where frequent calibration of a Differential Pressure (DP) transmitter using the bleeder port is required

- » This unique fitting makes a metal to metal seat on the transmitter and a Ralston Quick-test™ hose can be attached on the other side
- » Connects where the bleeder screw goes into a DP transmitter
- » A cap and chain makes permanent installation possible
- » Made in USA



Model	Size	Check Valve	Material	Working Pressure	Wrench Size	Length	Types of Transmitters
QTFT-FRSO	5/16"-24	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	2.7 in (6.86 cm)	Foxboro, Rosemount, Yokogawa, ABB
QTFT-HNSO	1/4"-28	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	2.58 in (6.55 cm)	Honeywell

BSPP

BSPP Male (RS) Ralston Quick-test™ Adapters



Connect Female BSPP (ISO 228/1) parallel thread to Ralston Quick-test™ hose for temporary installation

- » Connect Quick-test hoses to any device with Female BSPP connections such as Druck™, SI™, Fluke™ hand pumps or pressure calibrators
- » Pressure tight seal is made on a bonded seal ring (Refer to page 44 for bonded seals — sold separately)
- » Made in USA

Male Quick-test



Brass 1/4" shown (QTHA-2MB0-RS)

Male BSPP

Insider Connection

Several hand pumps use BSPP connections on them but have few options for connecting hoses, gauges or pressure calibrators. Just connect a male BSPP adapter into the hand pump and then use any Ralston Quick-test™ female adapter or hose to connect.



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1MB0-RS	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1 in (2.54 cm)
QTHA-2MB0-RS	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.25 in (3.18 cm)
QTHA-2MS0-RS	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.25 in (3.18 cm)
QTHA-3MB0-RS	3/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	7/8 in (23 mm)	1.28 in (3.25 cm)

BSPP Male (RS) Ralston Quick-test™ XT Adapters



Connect Female BSPP (ISO 228/1) parallel thread to Ralston Quick-test™ XT 10,000 psi hose for temporary installation

- » Connect Ralston Quick-test™ XT hoses to any device with Female BSPP connections such as Druck™, SI™, Fluke™ hand pumps or pressure calibrators
- » Pressure tight seal is made on a bonded seal ring (Refer to page 44 for bonded seals — sold separately)
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA

Male Quick-test XT



Stainless Steel 3/8" shown (XTHA-3MS0-RS)

Male BSPP

Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
XTHA-2MS0-RS	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	3/4 in (19 mm)	1.27 in (3.23 cm)
XTHA-3MS0-RS	3/8"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	7/8 in (23 mm)	1.25 in (3.18 cm)

BSPP Male (RS) Ralston Quick-test™ Fittings



Connect Female BSPP (ISO 228/1) parallel thread to Ralston Quick-test™ hose for permanent installation where frequent calibrations are performed

- » Connect Ralston Quick-test™ hoses to any device with Female BSPP connections such as Druck™, SI™, Fluke™ or other hand pumps or pressure calibrators
- » Pressure tight seal is made on a bonded seal ring (Refer to page 44 for bonded seals — sold separately)
- » A cap and chain makes permanent installation possible on any process with Female BSPP connections
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTFF-1MB0-RS	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.58 in (4.01 cm)
QTFF-2MB0-RS	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.82 in (4.62 cm)
QTFF-2MS0-RS	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.82 in (4.62 cm)
QTFF-3MB0-RS	3/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	7/8 in (23 mm)	1.82 in (4.62 cm)

BSPP Male (RS) Ralston Quick-test™ XT Fittings



Connect Female BSPP (ISO 228/1) parallel thread to Ralston Quick-test™ XT 10,000 psi hose for permanent installation where frequent calibrations are performed

- » Connect Ralston Quick-test™ XT hoses to any device with Female BSPP connections such as Druck™, SI™, Fluke™ or other hand pumps or pressure calibrators
- » Pressure tight seal is made on a bonded seal ring (Refer to page 44 for bonded seals — sold separately)
- » A cap and chain makes permanent installation possible on any process with Female BSPP connections
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
XTFF-2MS0-RS	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	3/4 in (19 mm)	1.85 in (4.70 cm)
XTFF-3MS0-RS	3/8"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	7/8 in (23 mm)	1.85 in (4.70 cm)

BSPP Female (RG) Ralston Quick-test™ Adapters



Connect Male BSPP (ISO 228/1) parallel thread to Ralston Quick-test™ hose for temporary installation

- » Ralston Quick-test™ connection makes connecting to any Female BSPP connection quick and easy
- » A seal is made using a bonded seal ring or copper crush washer for pressure gauges with male BSPP connections (refer to page 44 for bonded seals — sold separately)
- » Made in USA

Male Quick-test



Brass 1/4" shown
(QTHA-2FB0-RG)

Female BSPP

Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1FB0-RG	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	5/8 in (16 mm)	1.1 in (2.79 cm)
QTHA-2FB0-RG	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.12 in (2.84 cm)
QTHA-3FB0-RG	3/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	15/16 in (24 mm)	1.29 in (3.28 cm)
QTHA-4FB0-RG	1/2"	No	Brass	0 to 5,000 psi (0 to 345 bar)	1-1/16 in (27 mm)	1.54 in (3.91 cm)

BSPP Female (RG) Ralston Quick-test™ Gauge Adapters



Connect Male BSPP (ISO 228/1) parallel thread to a Ralston hand pump or nitrogen calibration equipment

- » Connect pressure gauges with Male BSPP connection to Ralston hand pumps, nitrogen calibration devices or any male Ralston Quick-test™ adapter
- » A seal is made using a bonded seal ring or copper crush washer for pressure gauges with male BSPP connections (refer to page 44 for bonded seals — sold separately)
- » Made in USA

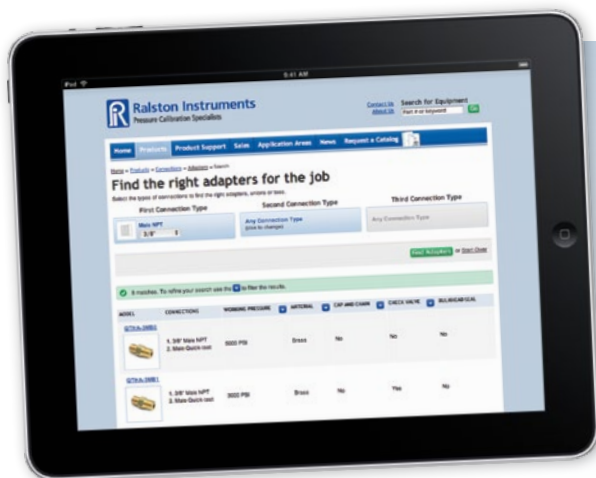
Female Quick-test



Brass 1/4" shown
(QTHA-2FBA-RG)

Female BSPP

Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-2FBA-RG	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.57 in (3.99 cm)
QTHA-3FBA-RG	3/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	15/16 in (24 mm)	1.65 in (4.19 cm)
QTHA-4FBA-RG	1/2"	No	Brass	0 to 5,000 psi (0 to 345 bar)	1-1/16 in (27 mm)	1.76 in (4.47 cm)



Ralston Adapter Finder

Find the right adapter or fitting for the job in seconds! Choose your desired connections and sizes — then find all the models that match your needs.

- » Sort by working pressure, material
- » Specify check valve, cap and chain, or bulkhead versions

ralstoninst.com/adapters

BSPP Female (RG) Quick-connect Adapters



BSPT

Connect directly to the bottom of BSPP (ISO 228/1) pressure gauges without a bonded seal or crush washer

- » A unique design allows connection to any male BSPP connections using a pressure-assisted O-ring seal that seals on the bottom of a pressure gauge
- » Pressure helps to seal the fitting better
- » Stainless steel construction
- » Made in USA



Model	Size	Check Valve	Quick-test end	Material	Pressure Range	Length
QTHA-2FS0-RG-QD	1/4"	No	Male Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.7 in (4.32 cm)
QTHA-2FSA-RG-QD	1/4"	No	Female Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	2 in (5.08 cm)
QTHA-3FS0-RG-QD	3/8"	No	Male Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.74 in (4.42 cm)
QTHA-3FSA-RG-QD	3/8"	No	Female Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.97 in (5.00 cm)
QTHA-4FS0-RG-QD	1/2"	No	Male Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.72 in (4.37 cm)
QTHA-4FSA-RG-QD	1/2"	No	Female Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.95 in (4.95 cm)

BSPT

BSPT Male (RT) Ralston Quick-test™ Adapters



Connects Female BSPT (ISO 7/1) taper pipe thread to Ralston Quick-test™ hose using thread sealant and a wrench

- » Ideal for connecting to female BSPT connections
- » Note that this is NOT an NPT adapter and is not compatible with NPT connections
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1MB0-RT	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.2 in (3.05 cm)
QTHA-1MB1-RT	1/8"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.2 in (3.05 cm)
QTHA-2MB0-RT	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.29 in (3.28 cm)
QTHA-2MB1-RT	1/4"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.29 in (3.28 cm)

BSPT Male (RT) Ralston Quick-test™ Fittings



Connects Female BSPT (ISO 7/1) taper pipe thread to Ralston Quick-test™ hose using thread sealant and a wrench

- » Ideal for connecting to female BSPT connections
- » Note that this is NOT an NPT adapter and is not compatible with NPT connections
- » A removable cap provides easy access to connect a Ralston Quick-test™ hose to the process for calibration purposes and is easily sealed bubble-tight again when calibration is complete
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTFT-1MB0-RT	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.76 in (4.47 cm)
QTFT-1MB1-RT	1/8"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.76 in (4.47 cm)
QTFT-2MB0-RT	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.85 in (4.70 cm)
QTFT-2MB1-RT	1/4"	Yes	Brass	0 to 3,000 psi (0 to 207 bar)	9/16 in (15 mm)	1.85 in (4.70 cm)

BSPT Female (RT) Ralston Quick-test™ Adapters



Connect to any Male BSPT (ISO 7/1) taper thread connection using thread sealant and a wrench

- » Ideal for connecting to male BSPT connections
- » Note that this is NOT an NPT adapter and is not compatible with NPT connections
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-1FB0-RT	1/8"	No	Brass	0 to 5,000 psi (0 to 345 bar)	5/8 in (16 mm)	0.98 in (2.49 cm)
QTHA-2FB0-RT	1/4"	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.13 in (2.87 cm)

Medium and High Pressure Adapters

Medium Pressure Ralston Quick-test™ Adapters



Connect to any Medium Pressure connection

- » Connect Ralston Quick-test™ hoses to pressure calibrators or graphing reference recorders with 1/4" Medium pressure coned and threaded connections
- » Ideal for connecting to Autoclave Engineers®, Butech®, HiP® (High Pressure Equipment) or Parker® Medium Pressure connections
- » Made in USA



Model	Size	Check Valve	Material	Working Pressure	Wrench Size	Length
QTHA-2MS0-MP	1/4"	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1/2 in (13 mm)	1.82 in (4.62 cm)

Medium Pressure Ralston Quick-test™ XT Adapters



Connect to any female Medium Pressure adapter from HiP® (High Pressure Equipment), Autoclave Engineers® or Butech®

- » Connect Ralston Quick-test™ XT hoses to pressure calibrators or graphing reference recorders with 1/4" Medium Pressure coned and threaded connections
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA



Model	Size	Check Valve	Material	Working Pressure	Wrench Size	Length
XTHA-2MS0-MP	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	1/2 in (13 mm)	1.81 in (4.60 cm)

High Pressure Ralston Quick-test™ Adapters



Connect a Female High Pressure 60 degree coned and threaded pressure fitting to a Ralston Quick-test™ hose

- » Excellent for connecting to Autoclave Engineers®, Butech®, HiP® (High Pressure Equipment), Parker® or equivalent high pressure coned and threaded connections, valves, tees and unions
- » Metal to metal seal provides leak-free service
- » Made in USA



Insider Connection

These adapters are excellent for connecting to high pressure valves in thermal test chambers, burst chambers, and in down-hole tool calibration.



Model	Size	Quick-test end	Check Valve	Material	Working Pressure	Wrench Size	Length
QTHA-2MS0-XH	1/4"	Male Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	5/8 in (16 mm)	1.65 in (4.19 cm)
QTHA-2MSA-XH	1/4"	Female Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	5/8 in (16 mm)	1.88 in (4.78 cm)

High Pressure Ralston Quick-test™ XT Adapters



Connect a Female 60 degree coned and threaded pressure fitting to a Ralston Quick-test™ XT 10,000 psi hose

- » Excellent for connecting to Autoclave Engineers®, Butech®, HiP® (High Pressure Equipment), Parker® or equivalent high pressure coned and threaded connections, valves, tees and unions
- » Metal to metal seal for 10,000 psi service
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA



Model	Size	Check Valve	Material	Pressure Range	Wrench Size	Length
XTHA-2MS0-XH	1/4"	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	5/8 in (16 mm)	1.88 in (4.78 cm)

Minimess Adapters

Minimess Ralston Quick-test™ Adapters



Connect a Ralston Quick-test™ hose to a 1620 connection

- » Adapt any Hydrotechnik Minimess™, Stauff™ 1620 or equivalent 16 x 2.0 connection to a Ralston Quick-test™ adapter
- » Made in USA



Insider Connection

Where there is already an installed base of 1620 connections, use this adapter to connect to Ralston Quick-test™ hoses and adapters.



Model	End 1	End 2	Check Valve	Material	Pressure Range
QTHA-MFB0-1620	1620 Minimess Female	Male Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)

SAE/MS Adapters

SAE/MS Male Quick-test Adapters



Connect to SAE/MS ports on pressure calibrators, pipelines and other processes

- » Connect using an O-ring seal avoids issues with vibration, heating and cooling
- » Excellent for aerospace and automotive connections with female SAE/MS ports
- » Made in USA



Model	End 1	End 2	Material	Pressure Range	Length
QTHA-5SB0	5/16" -24 Male (-02) SAE	Male Quick-test	Brass	0 to 5000 psi (0 to 345 bar)	1.14 in (2.90 cm)
QTHA-3SB0	3/8" -24 Male (-03) SAE	Male Quick-test	Brass	0 to 5000 psi (0 to 345 bar)	1.14 in (2.90 cm)
QTHA-3SS0	3/8" -24 Male (-03) SAE	Male Quick-test	Stainless Steel	0 to 5000 psi (0 to 345 bar)	1.14 in (2.90 cm)
QTHA-7SS0	7/16" -20 Male (-04) SAE	Male Quick-test	Stainless Steel	0 to 5000 psi (0 to 345 bar)	1.52 in (3.86 cm)

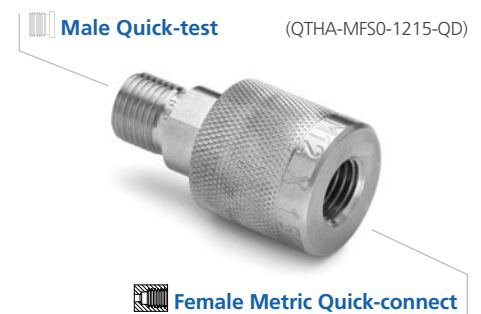
Metric Thread Adapters

Metric Female Quick-connect Adapters



Connect a pressure gauge with Metric male parallel thread to a Ralston Quick-test™ hose

- » A unique design allows connection to any male metric connections using a pressure-assisted O-ring seal against the bottom of a pressure gauge
- » Pressure helps to seal the fitting better
- » Stainless steel construction
- » Made in USA



Insider Connection

Connect to male metric threaded pressure gauges easily and without a wrench or thread sealant — it makes pressure calibration a snap.



Model	Size	Check Valve	Quick-test End	Material	Pressure Range	Length
QTHA-MFS0-1215-QD	12 x 1.5mm"	No	Male Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.67 in (4.24 cm)
QTHA-MFSA-1215-QD	12 x 1.5mm"	No	Female Quick-test	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.94 in (4.93 cm)

Unions, Bulkhead Unions, Elbows & Tees

Ralston Quick-test™ Unions




Connect two Ralston Quick-test™ hoses or two Ralston Quick-test™ adapters together, depending on the union

- » Ralston Quick-test™ unions make connecting two hoses or two adapters together quick and easy
- » Made in USA

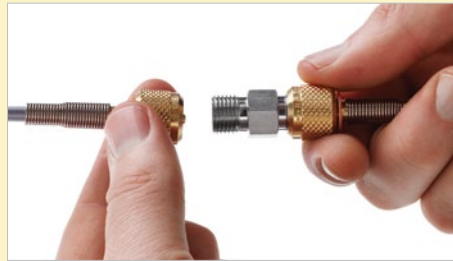
 Female Quick-test



Brass shown (QTHA-CCBU)  Female Quick-test

Insider Connection

Add to the number of jobs you can do with your hoses by joining them together to form longer hoses when necessary. Use the female Ralston Quick-test™ union to join two adapters together.



Model	End 1	End 2	Check Valve	Material	Pressure Range	Length
QTHA-HSHS	Male Quick-test	Male Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.25 in (3.18 cm)
QTHA-HHSU	Male Quick-test	Male Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.25 in (3.18 cm)
QTHA-CCBU	Female Quick-test	Female Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.72 in (4.37 cm)

Ralston Quick-test™ XT Unions



Connect two Ralston Quick-test™ XT 10,000 psi hoses together quickly and easily

- » Ralston Quick-test™ XT connection makes connecting two high pressure hoses together quick and easy
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA

 Male Quick-test XT



 Male Quick-test XT

Model	End 1	End 2	Check Valve	Material	Pressure Range	Wrench Size	Length
XTHA-HHSU	Male Quick-test XT	Male Quick-test XT	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	5/8 in (16 mm)	1.29 in (3.28 cm)

Ralston Quick-test™ Bulkhead Connections

Excellent for safely connecting two Ralston Quick-test™ hoses through an enclosure, truck, or panel wall

- » Bulkhead seals prevent liquid or moisture from getting into a control panel or enclosure
- » Use to connect a Quick-test hose on the inside of an enclosure to a Ralston Quick-test™ hose on the outside of the enclosure
- » Will connect through a wall that is up to 0.5 in (1.3 cm) thick
- » Made in USA



Insider Connection

This is ideal for connecting through carrying case or enclosure walls. For example, it works perfectly when a user wants to install a pressure gauge inside a case and connect to it from outside using the bulkhead connection.



Model	End 1	End 2	Check Valve	Material	Pressure Range	Wrench Size	Length
QTHA-HHSB	Male Quick-test	Male Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	1.73 in (4.39 cm)
QTFT-HHSB	Male Quick-test with Cap and Chain	Male Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	2.29 in (5.82 cm)

Ralston Quick-test™ XT Bulkhead Connections

Excellent for safely connecting two Ralston Quick-test™ XT 10,000 psi hoses through an enclosure, truck, or panel wall

- » Bulkhead seals so no liquid or moisture can get into a control panel or enclosure
- » Use to connect a Ralston Quick-test™ XT hose on the inside of an enclosure to a Ralston Quick-test™ XT hose on the outside of the enclosure
- » Will connect through a wall that is up to 0.5 in (1.3 cm)
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA



Model	End 1	End 2	Check Valve	Material	Pressure Range	Wrench Size	Length
XTHA-HHSB	Male Quick-test XT	Male Quick-test XT	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	3/4 in (19 mm)	1.76 in (4.47 cm)
XTFT-HHSB	Male Quick-test XT with Cap and Chain	Male Quick-test XT	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	3/4 in (19 mm)	2.33 in (5.92 cm)

Ralston Quick-test™ 90° Elbows



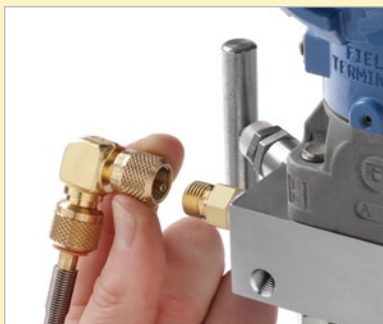
Connect a hose to an adapter that is in a hard to reach place

- » Ideal for accessing pressure transmitter ports and other equipment that is hard to reach
- » Position pressure gauges for easy reading
- » Durable forged construction
- » Made in USA



Insider Connection

Reach around corners without bending your hose into dangerously tight angles. It makes connecting to DP pressure transmitters at the back of meter sheds, up against walls and in other tough to access locations very safe and easy.



Model	End 1	End 2	Check Valve	Material	Working Pressure	Length
QTHA-HCBL	Male Quick-test	Female Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.5 in (3.81 cm)
QTHA-2MBL	1/4" Male NPT	Male Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.33 in (3.38 cm)
QTFT-2MBL	1/4" Male NPT	Male Quick-test with Cap and Chain	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.91 in (4.85 cm)

Ralston Quick-test™ 45° Elbows



Connect to pressure gauges, pressure calibrators and adapters easily and quickly

- » Position a pressure gauge for easy reading
- » Connect a Ralston Quick-test™ hose to an adapter in hard to reach places
- » Durable forged construction
- » Made in USA



Model	End 1	End 2	Check Valve	Material	Working Pressure	Length
QTHA-HCBL-45	Male Quick-test	Female Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.85 in (4.70 cm)

Ralston Quick-test™ Tees



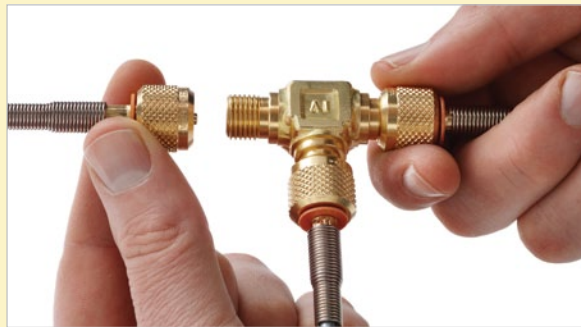
Connect three hoses or a combination of up to three hoses, adapters and hand pumps to manifolds or pressure gauges together

- » Durable forged construction
- » Tee has full flow through each of the ports
- » Made in USA



Insider Connection

Connect three hoses together or connect two hoses to a pressure gauge with NPT connections. The user can also connect an adapter to two other hoses. There are several configurations to choose from depending on the user's application.



Model	End 1	End 2	End 3	Check Valve	Material	Pressure Range	Length
QTHA-HSTE	Male Quick-test	Male Quick-test	Male Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.96 in (4.98 cm)
QTHA-HSTS	Male Quick-test	Male Quick-test	Male Quick-test	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	1.96 in (4.98 cm)
QTHA-HCCB	Male Quick-test	Female Quick-test	Female Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	2.2 in (5.59 cm)
QTHA-HCHB	Male Quick-test	Female Quick-test	Male Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	2.2 in (5.59 cm)
QTHA-HHCB	Male Quick-test	Male Quick-test	Female Quick-test	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.96 in (4.98 cm)
QTHA-HSTB-1F	Male Quick-test	Male Quick-test	1/8" Female NPT	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.96 in (4.98 cm)
QTHA-HSTB-2F	Male Quick-test	Male Quick-test	1/4" Female NPT	No	Brass	0 to 5,000 psi (0 to 345 bar)	1.96 in (4.98 cm)
QTHA-HFCB-1F	Male Quick-test	Female Quick-test	1/8" Female NPT	No	Brass	0 to 5,000 psi (0 to 345 bar)	2.2 in (5.59 cm)
QTHA-HFCB-2F	Male Quick-test	Female Quick-test	1/4" Female NPT	No	Brass	0 to 5,000 psi (0 to 345 bar)	2.2 in (5.59 cm)

Ralston Quick-test™ XT Tees



Connect three Ralston Quick-test™ XT 10,000 psi hoses together without a wrench or thread sealant

- » Durable forged construction
- » Full flow through all ports
- » Note that these are not compatible with QT or QS hoses. Please use Ralston Quick-test™ XT hoses
- » Made in USA



Model	End 1	End 2	End 3	Check Valve	Material	Pressure Range	Length
XTHA-HSTS	Male Quick-test XT	Male Quick-test XT	Male Quick-test XT	No	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	1.9 in (4.83 cm)

Valves

Valved Fittings



Install between a pressure gauge and the process and isolate the process from the gauge to perform a calibration of the gauge. After completing the calibration open the valve and place the gauge on-line, all without blowing down the system.

- » Available in brass and stainless steel
- » Use whenever there is a gauge that needs frequent calibration or verification



Insider Connection

In applications where the user needs to isolate a pressure gauge from the process, vent off the gauge and calibrate it. When finished simply remove the hose, replace the cap and bring the process back on-line.



Model	End 1	End 2	End 3	Block Valve	Vent Valve	Material	Pressure Range
QTVF-000B	1/4" Male NPT	1/4" Female NPT	Male Quick-test with Cap and Chain	Yes	No	Brass	0 to 3000 psi (0 to 207 bar)
QTVF-000B-2F-2F	1/4" Female NPT	1/4" Female NPT	Male Quick-test with Cap and Chain	Yes	No	Brass	0 to 3000 psi (0 to 207 bar)
QTVF-000S	1/4" Male NPT	1/4" Female NPT	Male Quick-test with Cap and Chain	Yes	Yes	Stainless Steel	0 to 3000 psi (0 to 207 bar)
QTVF-000S-2F-2F	1/4" Female NPT	1/4" Female NPT	Male Quick-test with Cap and Chain	Yes	No	Stainless Steel	0 to 3000 psi (0 to 207 bar)

In-line vent valves

Use to slowly or quickly bleed pressure from a line after a calibration is complete

- » Easily connect between the end of a Quick-test hose and the process connection
- » Keep fluid or contaminants out of the hand pump, pressure gauge, calibrator or nitrogen control device



Insider Connection

Easily vent down a hose or pressure device prior to disconnecting the hose from the device.



Model	End 1	End 2	Block Valve	Vent Valve	Material	Pressure Range
QTHA-TVLB	Male Quick-test	Male Quick-test	No	Yes	Brass	0 to 3,000 psi (0 to 207 bar)
QTHA-TVLB-HC	Male Quick-test	Female Quick-test	No	Yes	Brass	0 to 3,000 psi (0 to 207 bar)
QTHA-TVLS	Male Quick-test	Male Quick-test	No	No	Stainless Steel	0 to 5,000 psi (0 to 345 bar)
QTHA-TVLS-HC	Male Quick-test	Female Quick-test	No	Yes	Stainless Steel	0 to 5,000 psi (0 to 345 bar)

Block and Bleed Valves

Keep a calibration system pressurized with a fluid or gas while venting the pressure from the device being calibrated

Insider Connection

This valve is great for blocking pressure in a hose, venting off a pressure instrument and disconnecting the hose. The user can then pressurize another device without blowing down the hose.



Model	End 1	End 2	Block Valve	Vent Valve	Material	Pressure Range
QTHA-BLB0-HH	Male Quick-test	Male Quick-test	Yes	Yes	Brass	0 to 3,000 psi (0 to 207 bar)
QTHA-BLB0-HC	Male Quick-test	Female Quick-test	Yes	Yes	Brass	0 to 3,000 psi (0 to 207 bar)
QTHA-BLB0-1F-1F	1/8" Female NPT	1/8" Female NPT	Yes	Yes	Brass	0 to 3,000 psi (0 to 207 bar)
QTHA-BLB0-2F-2F	1/4" Female NPT	1/4" Female NPT	Yes	Yes	Brass	0 to 3,000 psi (0 to 207 bar)
QTHA-BLS0-HH	Male Quick-test	Male Quick-test	Yes	Yes	Stainless Steel	0 to 5,000 psi (0 to 345 bar)
QTHA-BLS0-HC	Male Quick-test	Female Quick-test	Yes	Yes	Stainless Steel	0 to 5,000 psi (0 to 345 bar)
QTHA-BLS0-2F-2F	1/4" Female NPT	1/4" Female NPT	Yes	Yes	Stainless Steel	0 to 5,000 psi (0 to 345 bar)

Verniers

In-line Verniers



Connect one end to a Quick-test hose and the other to the process connection then turn the knob to control the pressure

- » Easily control pressure of a closed system
- » Fine tune pressure to a precise pressure test point
- » Easily attach and remove from a system

Insider Connection

When a small change in pressure is required the user can just turn the knob to adjust pressure up or down. This is ideal for floating a piston gauge or calibrating a pressure transmitter.



Male Quick-test



Brass shown (QTHA-TEVR)

Male Quick-test

Model	End 1	End 2	Material	Pressure Range
QTHA-TEVR	Male Quick-test	Male Quick-test	Brass	0 to 5000 psi (0 to 345 bar)
QTHA-TEVR-HC	Male Quick-test	Female Quick-test	Brass	0 to 5000 psi (0 to 345 bar)
QTHA-TEVR-SS	Male Quick-test	Male Quick-test	Stainless Steel	0 to 5000 psi (0 to 345 bar)
QTHA-TEVR-HC-SS	Male Quick-test	Female Quick-test	Stainless Steel	0 to 5000 psi (0 to 345 bar)

Replacement Swivel Fittings and Outlet Ports

Replacement Gauge Swivels



Use to mount gauges on Ralston Instruments model APGV, HPOV, HPGV, XH0V, XHGV hand pumps

- » Swivels allow the user to easily switch gauges on a single hand pump
- » Made in USA

Insider Connection

First, equip each test gauge with a swivel fitting. Switching between the gauges while performing a calibration is easy and quick — no thread sealant required.



Gauge Swivel



1/4" Female NPT shown (SWIV-2FBW)

End 1

Model	End 1	End 2	Check Valve	Material	Pressure Range	Wrench Size	Length
SWIV-2FBW	1/4" Female NPT	Gauge Swivel	No	Brass	0 to 5,000 psi (0 to 345 bar)	3/4 in (19 mm)	1.89 in (4.80 cm)
SWIV-4GBW	1/2" Female BSPP	Gauge Swivel	No	Brass	0 to 5,000 psi (0 to 345 bar)	1-1/16 in (27 mm)	2.35 in (5.97 cm)
SWIV-QTBW	Male Quick-test	Gauge Swivel	No	Brass	0 to 5,000 psi (0 to 345 bar)	9/16 in (15 mm)	2.04 in (5.18 cm)

Replacement Outlet Ports



Outlet ports used on hand pumps, nitrogen sources, volume controllers

- » Made in the USA



Model	End 1	End 2	Check valve	Material	Pressure Range
QTHA-3SB0	3/8"-24 Male SAE	Male Quick-test	No	Brass	0 to 5000 psi (0 to 345 bar)
QTFT-3SB0	3/8"-24 Male SAE	Male Quick-test with Cap and Chain	No	Brass	0 to 5000 psi (0 to 345 bar)
QTHA-3SB1	3/8"-24 Male SAE	Male Quick-test	Yes	Brass	0 to 3000 psi (0 to 207 bar)
QTHA-3SB0-LV	3/8"-24 Male SAE	Male Quick-test	No	Brass	0 to 5000 psi (0 to 345 bar)
QTFT-3SB0-LV	3/8"-24 Male SAE	Male Quick-test with Cap and Chain	No	Brass	0 to 5000 psi (0 to 345 bar)
QTHA-3SS0	3/8"-24 Male SAE	Male Quick-test	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)
QTHA-3SBA	3/8"-24 Male SAE	Female Quick-test	No	Brass	0 to 5000 psi (0 to 345 bar)
QTHA-3SSA	3/8"-24 Male SAE	Female Quick-test	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)
QTHA-3S1F	3/8"-24 Male SAE	1/8" Female NPT"	No	Brass	0 to 5000 psi (0 to 345 bar)
QTHA-3S2F	3/8"-24 Male SAE	1/4" Female NPT"	No	Brass	0 to 5000 psi (0 to 345 bar)
QTHA-2S2F-SS	3/8"-24 Male SAE	1/4" Female NPT"	No	Stainless Steel	0 to 5000 psi (0 to 345 bar)
QTHA-5SB0	5/16"-24 Male SAE	Male Quick-test	No	Brass	0 to 5000 psi (0 to 345 bar)
QTFT-5SB0	5/16"-24 Male SAE	Male Quick-test with Cap and Chain	No	Brass	0 to 5000 psi (0 to 345 bar)

Ralston Quick-test™ Accessories

Ralston Quick-test™ Cap and Chains



Cap and chain for any male Ralston Quick-test™ adapter with a cap and chain

- » Seals any male Ralston Quick-test™ adapter to 5,000 psi (345 bar)
- » Install on any Ralston Quick-test™ adapter for permanent installation in the field
- » Made in USA



Model	End 1	Material	Pressure Range	Length
QTFT-CAPB	Female Quick-test with Cap and Chain	Brass	0 to 5,000 psi (0 to 345 bar)	0.85 in (2.16 cm)
QTFT-CAPS	Female Quick-test with Cap and Chain	Stainless Steel	0 to 5,000 psi (0 to 345 bar)	0.85 in (2.16 cm)

Ralston Quick-test™ XT Cap and Chains



Turn any Ralston Quick-test™ XT adapter into a permanent installation with the addition of a cap and chain

- » Seals any male Ralston Quick-test™ XT adapter
- » Install on any Ralston Quick-test™ XT adapter for permanent installation in the field
- » Note that these are not compatible with QT or QS hoses. Please use only on Ralston Quick-test™ XT adapters
- » Made in USA

 Female Quick-test XT Cap



Chain

Stainless steel shown (XTFF-CAPS)

Model	End 1	Material	Pressure Range	Length
XTFF-CAPS	Female Quick-test XT with Cap and Chain	Stainless Steel	0 to 10,000 psi (0 to 689 bar)	0.95 in (2.41 cm)

Bonded Seals for RS Ralston Quick-test™ Adapters



Bonded seals provide replacement seals for male and female BSPP adapters.

Model	Size	Material	Seal Material
QTHA-1BR-RS	1/8 "	Plated Steel	Buna-N
QTHA-2BR-RS	1/4 "	Plated Steel	Buna-N
QTHA-3BR-RS	3/8 "	Plated Steel	Buna-N
QTHA-4BR-RS	1/2 "	Plated Steel	Buna-N



1/8" shown (QTHA-1BR-RS)

Copper Washers for RG Ralston Quick-test™ Adapters



Copper washers provide replacement seals for female BSPP RG adapters when connected to male BSPP pressure gauges.

Model	Description	Material
QTHA-2CR-RG	G 1/4" female RG crush washer	Copper
QTHA-3CR-RG	G 3/8" female RG crush washer	Copper
QTHA-4CR-RG	G 1/2" female RG crush washer	Copper



1/4" shown (QTHA-2CR-RG)

Replacement Seals and Seal Kits

Replacement seals and retaining ring kits for Ralston Quick-test™ adapters



Replacement seal kit for QTHA-1TS0-QD (QTHA-1TS0-SK)

Model	Description	Seal Material
QTHA-1TS0-SK	Replacement seal kit for QTHA-1TS0-QD	Buna-N, Teflon
QTHA-2006	Replacement O-ring for QTHA-2TB0 and QTHA-2TS0	Buna-N
QTHA-2010	Replacement O-ring for QTHA-3TB0 and QTHA-3TS0	Buna-N
QTHA-2012	Replacement O-ring for QTHA-4TB0 and QTHA-4TS0	Buna-N
QTHA-1MS0-SK	Replacement seal kit for QTHA-1MS0-QD and QTFT-1MS0-QD	Buna-N, Teflon
QTHA-1FS0-SK	Replacement seal kit for QTHA-1FS0-QD and QTHA-1FSA-QD	Buna-N, Teflon
QTHA-2MS0-SK	Replacement seal kit for QTHA-2MS0-QD and QTFT-2MS0-QD	Buna-N, Teflon
QTHA-2FS0-SK	Replacement seal kit for QTHA-2FS0-QD and QTHA-2FSA-QD	Buna-N, Teflon
QTHA-2FS0-RG-SK	Replacement seal kit for QTHA-2FS0-QD, QTHA-2FSA-RG-QD	Buna-N, Teflon
QTHA-2FSF-SK	Replacement seal kit for QTHA-2FSF-QD	Buna-N, Teflon
QTHA-3FS0-RG-SK	Replacement seal kit for QTHA-3FS0-RG-QD, QTHA-3FSA-QD	Buna-N, Teflon
QTHA-4FS0-SK	Replacement seal kit for QTHA-4FS0-QD and QTHA-4FSA-QD	Buna-N, Teflon
QTHA-4FS0-RG-SK	Replacement seal kit for QTHA-4FS0-RG-QD, QTHA-4FSA-QD	Buna-N, Teflon
QTHA-MFS0-1215-SK	Replacement seal kit for QTHA-MFS0-1215-QD	Buna-N, Teflon



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