

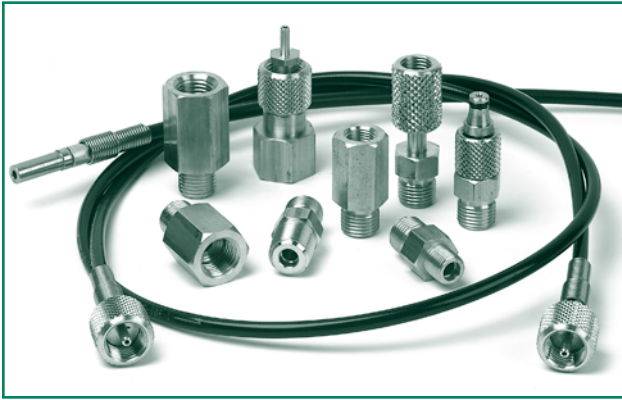


Hoses + Fittings

Quick-test System™

Ralston Instruments, LLC





Introduction:

Ralston Instruments Quick-test™ hoses and adapters are designed to provide highly reliable, leak-free connections for use in pressure calibration to 6900 psi (475 bar). These hoses and adapters are used in instrumentation, process industries, the armed forces and power applications throughout the world. Quick-test™ hoses and adapters are manufactured to exacting standards from the highest quality materials available. Quick-test™ adapters are available in a wide range of sizes, types and process connections.

Features:

Ralston Instruments Quick-test™ hoses are unique because they can be attached and detached without a wrench or thread sealant. Quick-test™ hoses are small in diameter, flexible and low in volume. These hoses provide an ideal way of transmitting pressure during a vacuum or pressure calibration. A wide variety of adapters provide connections for most calibration applications. Adapters can be ordered with an optional internal check-valve or with a cap and chain as well as with different seal materials. The adapters shown in this catalog have been designed to meet the most demanding applications.

Materials:

Ralston Instruments Quick-test™ hoses are made from Kevlar™ braided nylon tubing. All adapters come in brass with some sizes available in 304 stainless steel. Buna-N seals are standard but Viton™ and silicone seals are also available. All adapters are precision machined to stringent tolerances to ensure the highest quality.

Pressure Ratings:

For working pressures of Quick-test™ hoses and adapters please see the technical information for each specific hose or adapter. In many cases the material into which the adapter is installed may be the limiting factor, and design precautions should be taken into consideration.

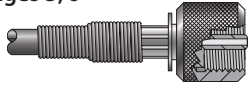
About Ralston Instruments LLC

Ralston Instruments LLC is a world renowned manufacturer of pressure calibration hoses and adapters. Ralston Instruments was founded in 1969 and remains committed to providing customers with lasting value and exceptional service. We are proud of our products' ruggedness, dependability and unique features. Our calibration hoses and adapters allow the customer to work more efficiently, reduce the cost of each calibration and have confidence in the accuracy of their pressure calibration.



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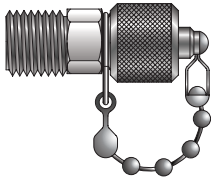


NPT Adapters

NPT Male Adapters
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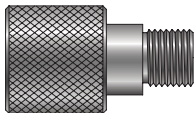
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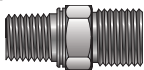


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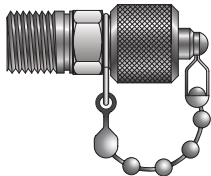


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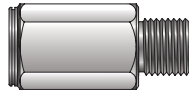
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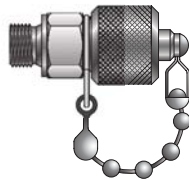


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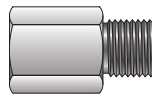
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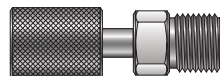
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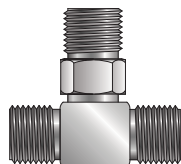
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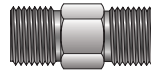
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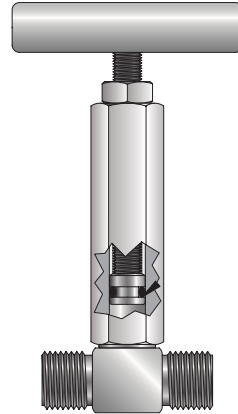
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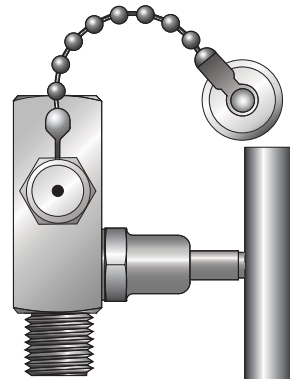
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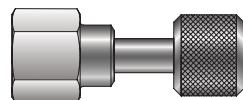
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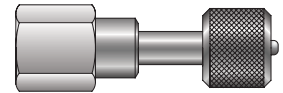
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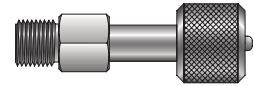
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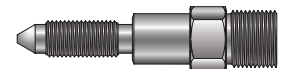
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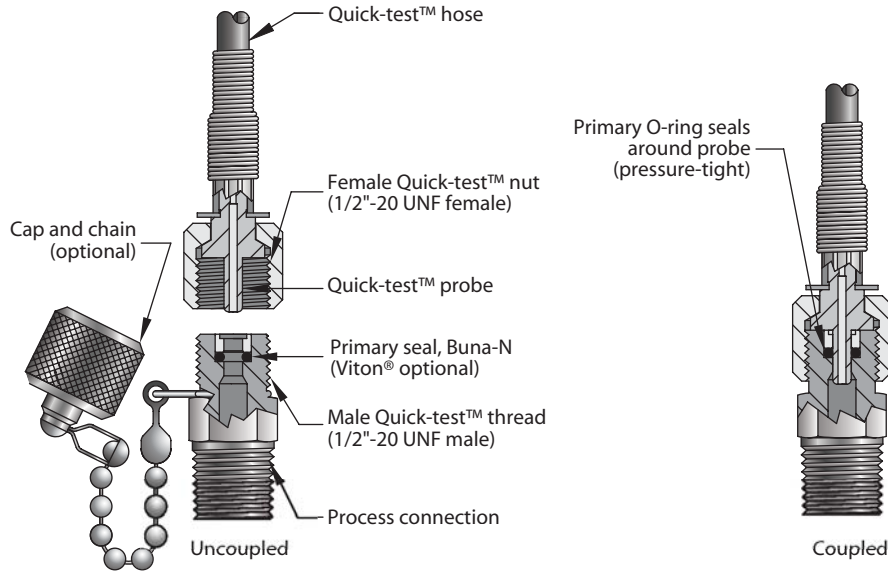
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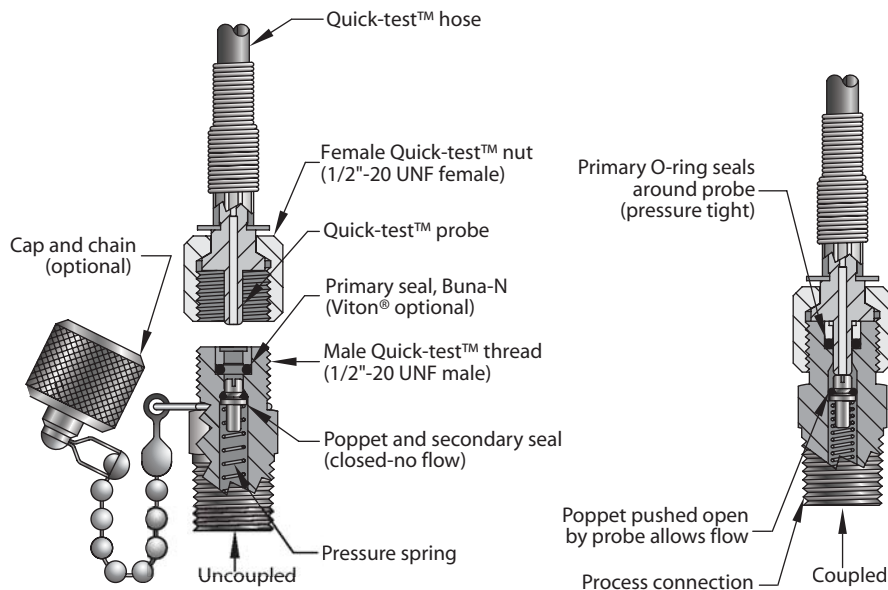


Quick-test™ Adapters with no Integral Check Valve



Ralston Instruments Quick-test™ hose and adapters seal via an o-ring and probe. This simple and reliable method provides leak-free connections. The probe slides into the o-ring and provides the seal. The threads are there to keep the probe in place without using a wrench or thread sealant.

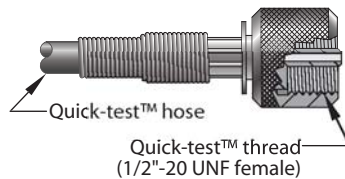
Quick-test™ Adapters with Integral Check Valve



Adapters with integral check valves seal via the same o-ring and probe method as shown above. When the hose probe is pushed into the o-ring, the probe in the adapter opens a check valve poppet and allows flow. When the hose probe is removed the check-valve poppet in the adapter shuts and keeps the fluid media from leaking.

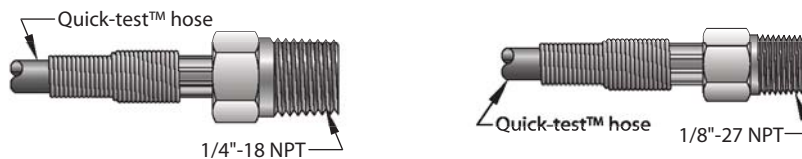


QT and QS Hose Ends



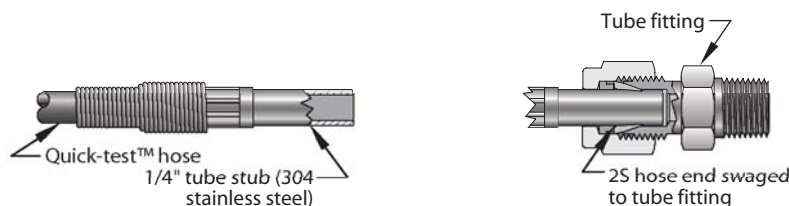
QT (brass) or QS (304 stainless steel) knurled nut and probe hose ends are the Quick-test™ standard. They allow a pressure tight seal to be created without thread sealant. Quick-test™ hoses adapt to a variety of process connections with the use of a Quick-test™ adapter (see pages 7-18).

2M and 1M Hose Ends



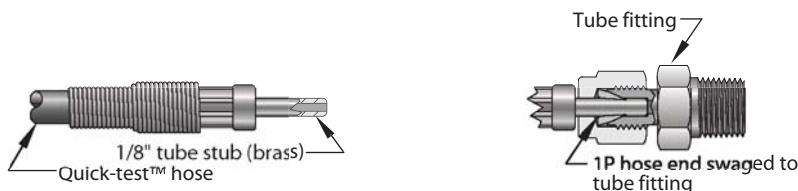
These hose ends provide a pressure tight connection with any NPT 1/8" or 1/4" female process connection. Thread sealant is required.

2S Hose Ends



2S hose ends are 1/4" diameter stainless steel stub ends. These allow a 1/4" tube fitting to be swaged onto the end of the hose as though the hose end was 1/4" diameter stainless steel tubing. The nut and ferrules remain attached to the hose and can be remade as needed.

1P Hose Ends



1P hose ends are 1/8" diameter brass stub ends. These allow a 1/8" brass tube fitting to be swaged onto the end of the hose as though the hose end was 1/8" diameter tubing. The nut and ferrules remain attached to the hose and can be remade as needed.

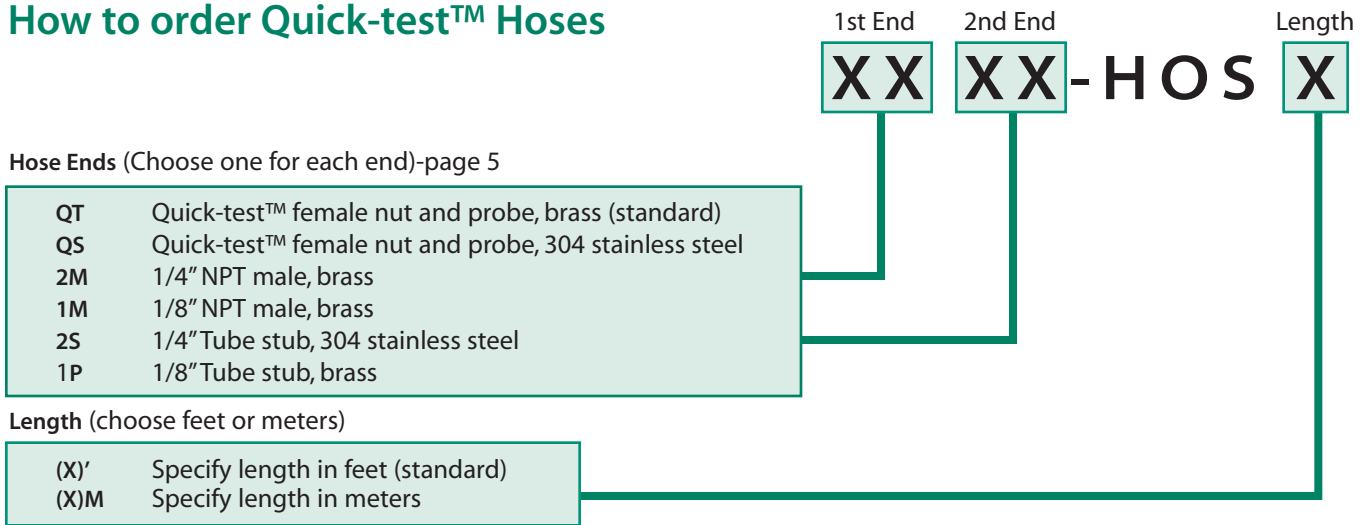
Hose specifications

Working Pressure:	6900 psi (475 bar)
Burst Pressure:	27,000 psi (1860 bar)
Working Temperature:	-40°F to 140°F (-40°C to 60°C)
Construction:	Polyamide core tube, high tensile synthetic fiber (Kevlar™) reinforced and polyamide outer cover, brass or 304 stainless steel hose ends
Outer Diameter:	0.20 in (5 mm)
Inner Diameter:	0.08 in (2 mm)
Minimum Bend radius:	1" (25.4 mm)
Fluid Media:	Water, petroleum based oils, air, inert gas, compressed natural gas

Warning: Always wear eye protection and take appropriate precautions when using high pressure equipment. Surge pressures higher than the maximum recommended working pressure can cause failure or shorten hose life. Be certain that the fluid and ambient temperature of the hose do not exceed maximum recommended working temperature. Immediately discontinue use of hose assembly if fitting slippage, wear, cracks or leaks appear in the hose.

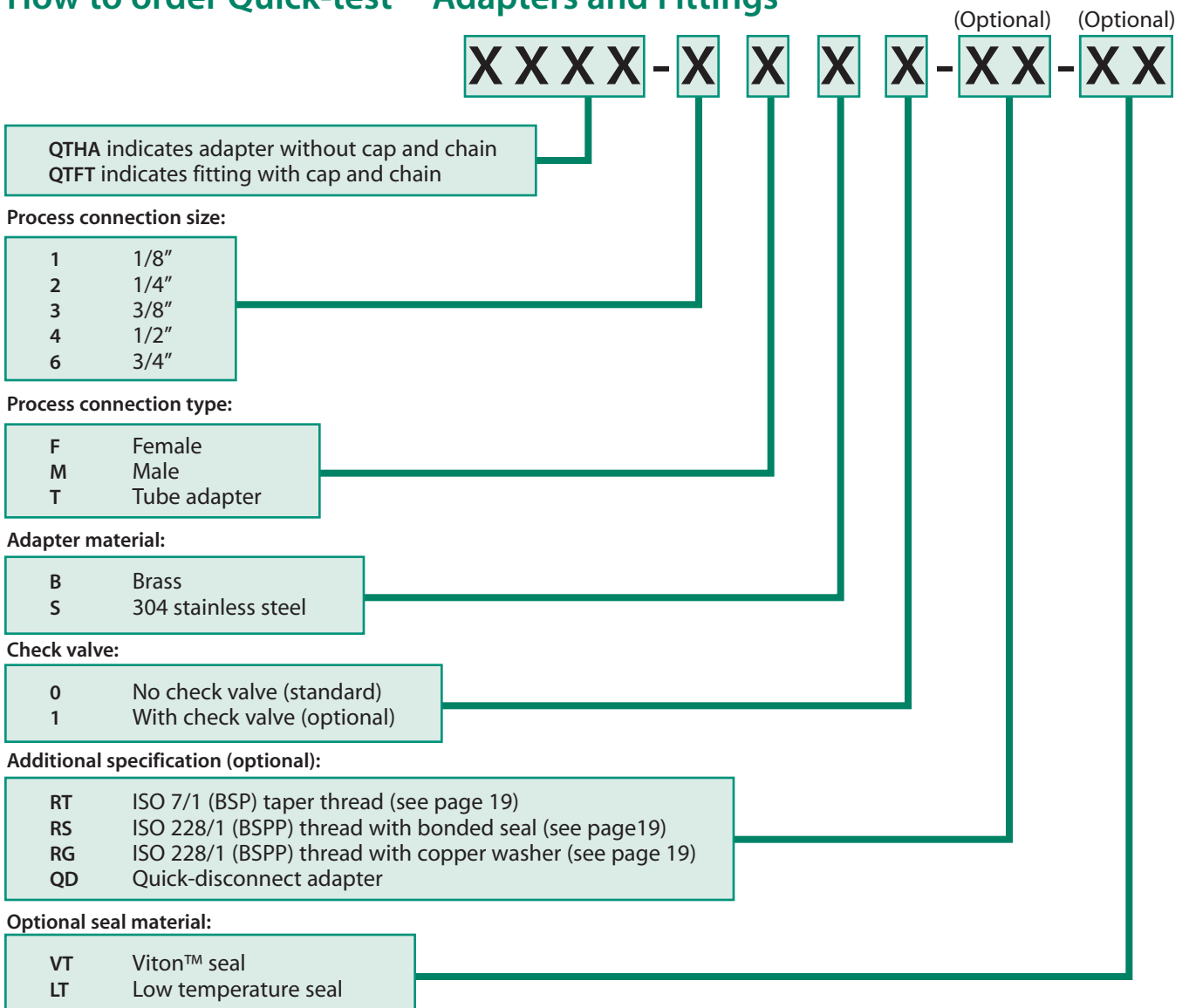


How to order Quick-test™ Hoses



Example: QT1M-HOS12' indicates hose with 1st end QT (Quick-test™), 2nd end 1M (1/8" male NPT), 12' long.

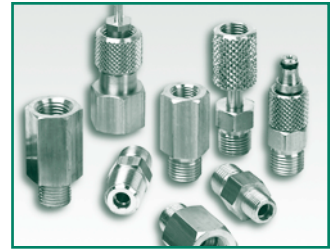
How to order Quick-test™ Adapters and Fittings



Quick-test™ Adapters and Fittings

When ordering Adapters and Fittings Please Note:

- Standard material is brass
- Standard threads are NPT (see page 19)
- Standard seals are Buna-N
- Not all adapters adhere to the above numbering system. See catalog for details
- Working pressures are based on test results of threads manufactured according to ANSI, SAE, DIN or ISO specifications.
- Material or thread deviations from these specifications may reduce the working pressure of the system. In many cases the material into which the adapter is installed may be the pressure limiting factor and should be verified by test.



Specifications of Quick-test™ Seals:

Buna-N (Nitrile)

Temperature Range: -31°F to 212°F (-35°C to 100°C)

Features: The most widely used economic elastomer with excellent resistance to petroleum based oils, hydraulic fluids, water and alcohols

VT-Viton™

Temperature Range: -13°F to 248°F (-25°C to 120°C)

Features: Combined high temperature resistance with excellent chemical resistance to solvents, acids and swelling, fluorocarbons approach the ideal seal material

LT-Silicone

Temperature Range: -94°F to 400°F (-70°C to 204°C)

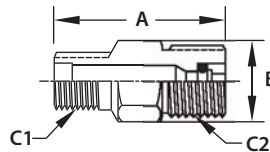
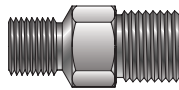
Features: extreme temperature resistance

Warning: Failure or improper use of the products described can cause property damage, personal injury and death.

Caution: Always use eye protection when using high pressure equipment

NPT Male Adapters

Connects Female NPT to QT or QS hose



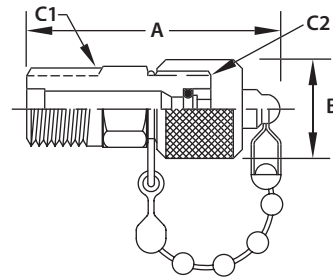
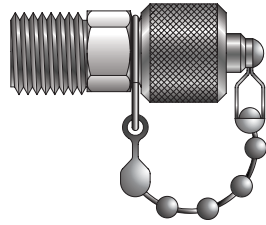
Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1MB0	1/8" Male NPT	Male QT	No	Brass	5000 (350)	1.20 (3.05)	0.56 (1.42)
QTHA-1MB1	1/8" Male NPT	Male QT	Yes	Brass	3000 (210)	1.20 (3.05)	0.56 (1.42)
QTHA-1MS0	1/8" Male NPT	Male QT	No	304 S.S.	5000 (350)	1.20 (3.05)	0.56 (1.42)
QTHA-1MS1	1/8" Male NPT	Male QT	Yes	304 S.S.	3000 (210)	1.20 (3.05)	0.56 (1.42)
QTHA-2MB0	1/4" Male NPT	Male QT	No	Brass	5000 (350)	1.29 (3.28)	0.56 (1.42)
QTHA-2MB1	1/4" Male NPT	Male QT	Yes	Brass	3000 (210)	1.29 (3.28)	0.56 (1.42)
QTHA-2MS0	1/4" Male NPT	Male QT	No	304 S.S.	5000 (350)	1.29 (3.28)	0.56 (1.42)
QTHA-2MS1	1/4" Male NPT	Male QT	Yes	304 S.S.	3000(210)	1.29 (3.28)	0.56 (1.42)
QTHA-3MB0	3/8" Male NPT	Male QT	No	Brass	5000 (350)	1.40 (3.56)	0.75 (1.90)
QTHA-3MB1	3/8" Male NPT	Male QT	Yes	Brass	3000 (210)	1.40 (3.56)	0.75 (1.90)
QTHA-4MB0	1/2" Male NPT	Male QT	No	Brass	5000 (350)	1.57 (3.99)	0.87 (2.21)
QTHA-4MB1	1/2" Male NPT	Male QT	Yes	Brass	3000 (210)	1.57 (3.99)	0.87 (2.21)
QTHA-6MB0	3/4" Male NPT	Male QT	No	Brass	5000 (350)	1.81 (4.60)	1.06 (2.69)
QTHA-6MB1	3/4" Male NPT	Male QT	Yes	Brass	3000 (210)	1.81 (4.60)	1.06 (2.69)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made on the threads. See page 19 for thread explanation and specifications.



NPT Male Quick-test™ Fittings

Connects Female NPT to QT or QS hose



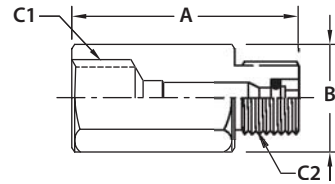
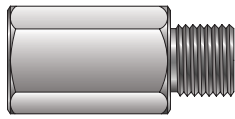
Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTFT-1MB0	1/8" Male NPT	Male QT	No	Brass	5000 (350)	1.76 (4.47)	0.71 (1.80)
QTFT-1MB1	1/8" Male NPT	Male QT	Yes	Brass	3000 (210)	1.76 (4.47)	0.71 (1.80)
QTFT-1MS0	1/8" Male NPT	Male QT	No	304 S.S.	5000 (350)	1.76 (4.47)	0.71 (1.80)
QTFT-1MS1	1/8" Male NPT	Male QT	Yes	304 S.S.	3000 (210)	1.76 (4.47)	0.71 (1.80)
QTFT-2MB0	1/4" Male NPT	Male QT	No	Brass	5000 (350)	1.85 (4.70)	0.71 (1.80)
QTFT-2MB1	1/4" Male NPT	Male QT	Yes	Brass	3000 (210)	1.85 (4.70)	0.71 (1.80)
QTFT-2MS0	1/4" Male NPT	Male QT	No	304 S.S.	5000 (350)	1.85 (4.70)	0.71 (1.80)
QTFT-2MS1	1/4" Male NPT	Male QT	Yes	304 S.S.	3000 (210)	1.85 (4.70)	0.71 (1.80)
QTFT-3MB0	3/8" Male NPT	Male QT	No	Brass	5000 (350)	1.97 (5.00)	0.75 (1.90)
QTFT-3MB1	3/8" Male NPT	Male QT	Yes	Brass	3000 (210)	1.97 (5.00)	0.75 (1.90)
QTFT-4MB0	1/2" Male NPT	Male QT	No	Brass	5000 (350)	2.14 (5.44)	0.87 (2.21)
QTFT-4MB1	1/2" Male NPT	Male QT	Yes	Brass	3000 (210)	2.14 (5.44)	0.87 (2.21)
QTFT-6MB0	3/4" Male NPT	Male QT	No	Brass	5000 (350)	2.38 (6.05)	1.06 (2.69)
QTFT-6MB1	3/4" Male NPT	Male QT	Yes	Brass	3000 (210)	2.38 (6.05)	1.06 (2.69)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made on the threads. See page 19 for thread and seal explanation and specifications.



NPT Female Adapters

Connects Male NPT to QT or QS hose



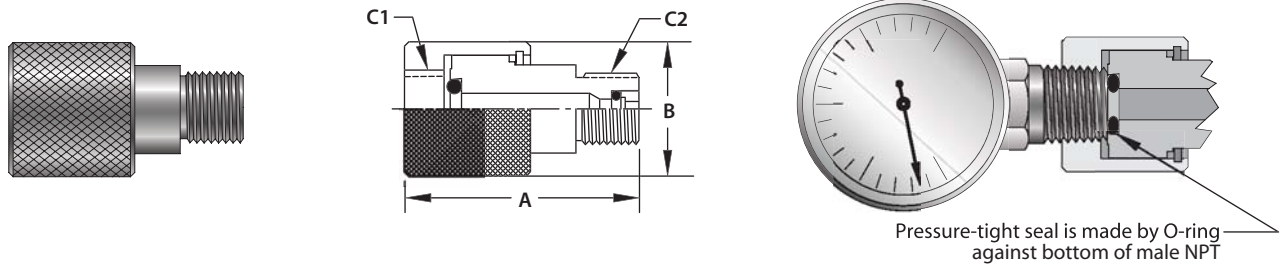
Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1FB0	1/8" Female NPT	Male QT	No	Brass	5000 (350)	1.38 (3.50)	0.62 (1.57)
QTHA-1FB1	1/8" Female NPT	Male QT	Yes	Brass	3000 (210)	1.38 (3.50)	0.62 (1.57)
QTHA-1FS0	1/8" Female NPT	Male QT	No	304 S.S.	5000 (350)	1.38 (3.50)	0.62 (1.57)
QTHA-1FS1	1/8" Female NPT	Male QT	Yes	304 S.S.	3000 (210)	1.38 (3.50)	0.62 (1.57)
QTHA-2FB0	1/4" Female NPT	Male QT	No	Brass	5000 (350)	1.57 (3.99)	0.75 (1.90)
QTHA-2FB1	1/4" Female NPT	Male QT	Yes	Brass	3000 (210)	1.57 (3.99)	0.75 (1.90)
QTHA-2FS0	1/4" Female NPT	Male QT	No	304 S.S.	5000 (350)	1.57 (3.99)	0.75 (1.90)
QTHA-2FS1	1/4" Female NPT	Male QT	Yes	304 S.S.	3000 (210)	1.57 (3.99)	0.75 (1.90)
QTHA-3FB0	3/8" Female NPT	Male QT	No	Brass	5000 (350)	1.32 (3.35)	0.94 (2.39)
QTHA-3FB1	3/8" Female NPT	Male QT	Yes	Brass	3000 (210)	1.32 (3.35)	0.94 (2.39)
QTHA-4FB0	1/2" Female NPT	Male QT	No	Brass	5000 (350)	1.66 (4.22)	1.12 (2.84)
QTHA-4FB1	1/2" Female NPT	Male QT	Yes	Brass	3000 (210)	1.66 (4.22)	1.12 (2.84)
QTHA-6FB0	3/4" Female NPT	Male QT	No	Brass	5000 (350)	1.59 (4.04)	1.37 (3.48)
QTHA-6FB1	3/4" Female NPT	Male QT	Yes	Brass	3000 (210)	1.59 (4.04)	1.37 (3.48)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made on the threads. See page 19 for thread explanation and specifications.



NPT Female QD (Quick-disconnect) Adapters

Connects Male NPT to QT or QS hose



Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1FB0-QD	1/8" Female NPT	Male QT	No	Brass	5000 (350)	1.38 (3.50)	0.62 (1.57)
QTHA-2FB0-QD	1/4" Female NPT	Male QT	No	Brass	5000 (350)	1.57 (3.99)	0.75 (1.90)
QTHA-4FB0-QD	1/2" Female NPT	Male QT	No	Brass	5000 (350)	1.66 (4.22)	1.12 (2.84)

Dimensions are for reference only and subject to change. Quick-disconnect adapters are designed for temporary installation. Permanent installation may result in loosening and leakage. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made via an o-ring seal against the bottom of the NPT connection. See page 19 for thread explanation and specifications.

Male RT Quick-test™ Adapters

Connects Female BSP (ISO 7/1) taper pipe thread to QT or QS hose



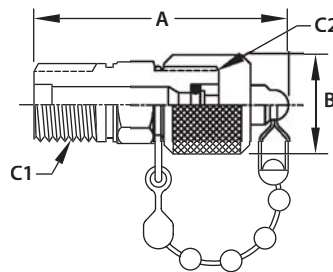
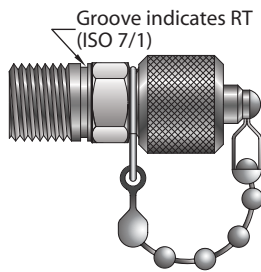
Ralston Part Number	End C1 BSP (ISO 7/1)	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1MB0-RT	1/8" Male	Male QT	No	Brass	5000 (350)	1.20 (3.05)	0.56 (1.42)
QTHA-1MB1-RT	1/8" Male	Male QT	Yes	Brass	3000 (210)	1.20 (3.05)	0.56 (1.42)
QTHA-2MB0-RT	1/4" Male	Male QT	No	Brass	5000 (350)	1.29 (3.28)	2.56 (1.42)
QTHA-2MB1-RT	1/4" Male	Male QT	Yes	Brass	3000 (210)	1.29 (3.28)	2.56 (1.42)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made on the threads. Threads look similar to NPT but the included angle is 55°. RT threads are indicated by a groove cut at the end of the machined thread. See page 19 for thread explanation and specifications.



Male RT Quick-test™ Fittings

Connects Female BSP (ISO 7/1) taper pipe thread to QT or QS hose

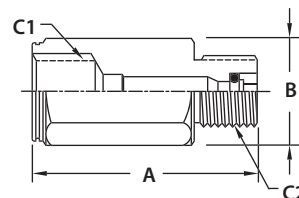
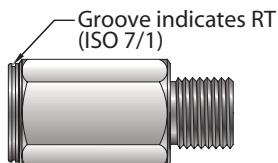


Ralston Part Number	End C2 BSP (ISO 7/1)	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTFT-1MB0-RT	1/8" Male	Male QT	No	Brass	5000 (350)	1.76 (4.47)	0.71 (1.80)
QTFT-1MB1-RT	1/8" Male	Male QT	Yes	Brass	3000 (210)	1.76 (4.47)	0.71 (1.80)
QTFT-2MB0-RT	1/4" Male	Male QT	No	Brass	5000 (350)	1.85 (4.70)	0.71 (1.80)
QTFT-2MB1-RT	1/4" Male	Male QT	Yes	Brass	3000 (210)	1.85 (4.70)	0.71 (1.80)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made on the threads. Threads look similar to NPT but the included angle is 55°. RT threads are indicated by a groove cut at the end of the machined thread. See page 19 for thread explanation and specifications.

Female RT Quick-test™ Adapters

Connects Male BSP (ISO 7/1) taper pipe thread to QT or QS hose



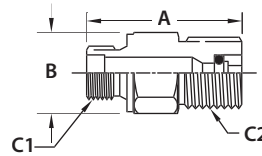
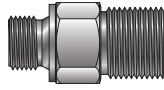
Ralston Part Number	End C1 BSP (ISO 7/1)	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1FB0-RT	1/8" Female	Male QT	No	Brass	5000 (350)	0.98 (2.48)	0.63 (1.59)
QTHA-2FB0-RT	1/4" Female	Male QT	No	Brass	5000 (350)	1.16 (2.94)	0.75 (1.91)

Dimensions are for reference only and subject to change. A pressure tight seal is made on the threads. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made on the threads. Threads look similar to NPT but the included angle is 55°. RT thread is indicated by a groove cut at the end of the machined thread. See page 19 for thread explanation and specifications.



Male RS Quick-test™ Adapters

Connects Female BSPP (ISO 228/1) parallel thread to QT or QS hose

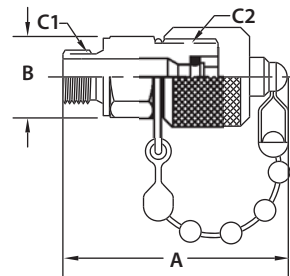
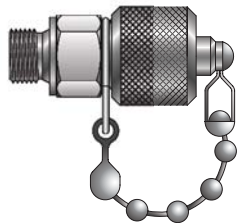


Ralston Part Number	End C1 BSPP (ISO 228/1)	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1MB0-RS	G 1/8" Male	Male QT	No	Brass	5000 (350)	1.00 (2.54)	0.56 (1.42)
QTHA-2MB0-RS	G 1/4" Male	Male QT	No	Brass	5000 (350)	1.25 (3.17)	0.75 (1.90)
QTHA-2MS0-RS	G 1/4" Male	Male QT	No	304 S.S.	5000 (350)	1.25 (3.17)	0.75 (1.90)
QTHA-3MB0-RS	G 3/8" Male	Male QT	No	Brass	5000 (350)	1.28 (3.25)	0.88 (2.23)
QTHA-3MS0-RS	G 3/8" Male	Male QT	No	304 S.S.	5000 (350)	1.28 (3.25)	0.88 (2.23)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is not made on the threads. A bonded elastomer seal should be used with RS (BSPP) adapters (see p. 18). See page 19 for thread and seal explanation and specifications.

Male RS Quick-test™ Fittings

Connects Female BSPP (ISO 228/1) parallel thread to QT or QS hose



Ralston Part Number	End C1 BSPP (ISO 228/1)	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTFT-1MB0-RS	G 1/8" Male	Male QT	No	Brass	5000 (350)	1.58 (4.00)	0.56 (1.42)
QTFT-2MB0-RS	G 1/4" Male	Male QT	No	Brass	5000 (350)	1.82 (1.37)	0.75 (1.91)
QTFT-2MS0-RS	G 1/4" Male	Male QT	No	304 S.S.	5000 (350)	1.82 (1.37)	0.75 (1.91)
QTFT-3MB0-RS	G 3/8" Male	Male QT	No	Brass	5000 (350)	1.82 (1.37)	0.88 (2.00)
QTFT-3MS0-RS	G 3/8" Male	Male QT	No	304 S.S.	5000 (350)	1.82 (1.37)	1.06 (2.69)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is not made on the threads. A bonded elastomer seal washer should be used with RS (BSPP) adapters (see p. 18). See page 19 for thread and seal explanation and specifications.



Female RG Quick-test™ Adapters

Connects male BSPP (ISO 228/1) parallel gauge to QT or QS hose

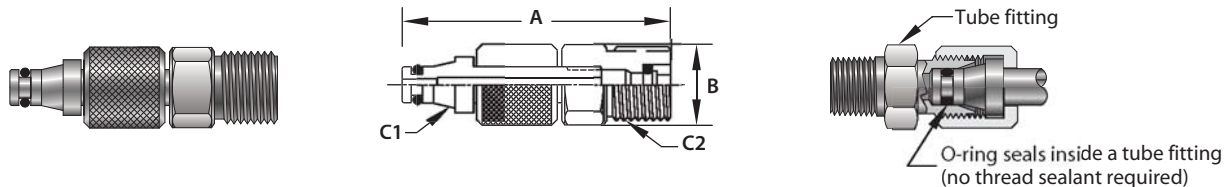


Ralston Part Number	End C1 BSPP (ISO 228/1)	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1FB0-RG	G 1/8" Female	Male QT	No	Brass	5000 (350)	1.38 (3.50)	0.63 (1.59)
QTHA-2FB0-RG	G 1/4" Female	Male QT	No	Brass	5000 (350)	1.26 (3.20)	0.75 (1.91)
QTHA-3FB0-RG	G 3/8" Female	Male QT	No	Brass	5000 (350)	1.22 (3.10)	0.94 (2.38)
QTHA-4FB0-RG	G 1/2" Female	Male QT	No	Brass	5000 (350)	1.64 (4.13)	1.12 (3.10)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is not made on the threads. A copper ring should be placed in the bottom of the Female RG (BSPP) adapter (see page 18) and clamped against the bottom of the male fitting. See page 19 for thread and seal explanation and specifications.

Quick-test™ Tube Adapters

Connects male BSPP (ISO 228/1) parallel gauge thread to QT or QS hose



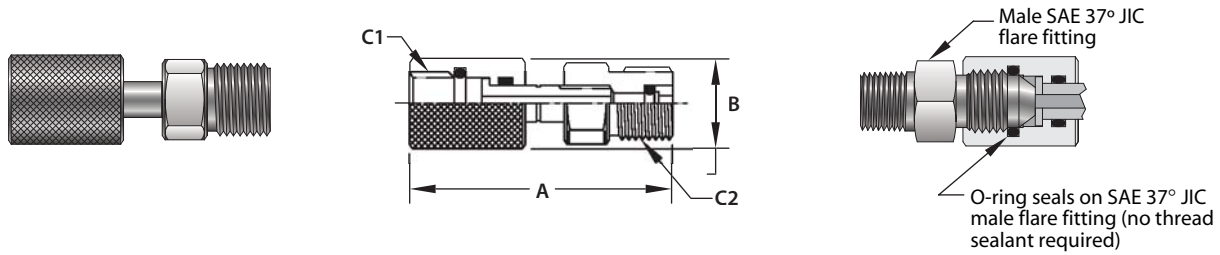
Ralston Part No.	Replacement O-ring Part No.	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
							A in (cm)	B in (cm)
QTHA-2TB0	QTHA-2006	1/4" Tube Fitting	Male QT	No	Brass	5000 (350)	1.82 (4.62)	0.58 (1.47)
QTHA-2TS0	QTHA-2006	1/4" Tube Fitting	Male QT	No	304 S.S.	5000 (350)	1.82 (4.62)	0.58 (1.47)
QTHA-3TB0	QTHA-2010	3/8" Tube Fitting	Male QT	No	Brass	5000 (350)	1.57 (3.99)	0.69 (1.75)
QTHA-4TB0	QTHA-2012	1/2" Tube Fitting	Male QT	No	Brass	5000 (350)	1.78 (4.52)	1.02 (2.5)

Tube adapters are designed for temporary installation. Permanent installation may result in loosening and leakage. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made via an o-ring sealing on the inside of the tube fitting. The nut and ferrule on the tube adapter replace the nut and ferrule of the tube fitting. See page 19 for thread explanation and specifications.



Quick-test™ JIC 37° Flare (AN) Adapter

Connects male JIC 37° flare to QT or QS hose

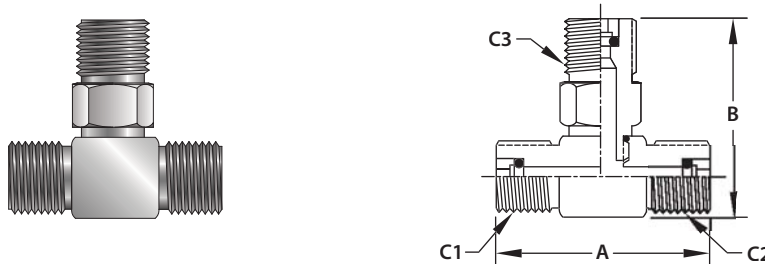


Ralston Part No.	Replacement O-ring Part No.	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
							A in (cm)	B in (cm)
QTHA-2FBF	QTHA-5612	1/4" Female Flare	Male QT	No	Brass	3000 (207)	2.00 (5.08)	0.65 (1.65)

Flare adapters are designed for temporary installation. Permanent installation may result in loosening and leakage. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made via an o-ring sealing on the outside of male flare fitting. The nut on the flare adapter replaces the flare nut. See page 19 for thread explanation and specifications.

Quick-test™ Hose Tee

Connects three QT or QS hoses together



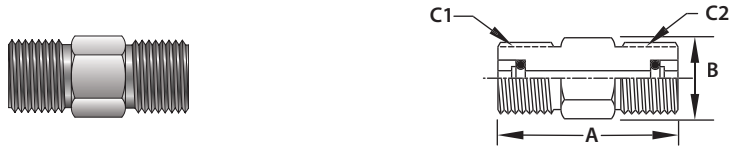
Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-HSTE	Male QT	Male QT	No	Brass	5000 (350)	1.50 (3.81)	1.42 (3.60)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals.



Quick-test™ Hose Union

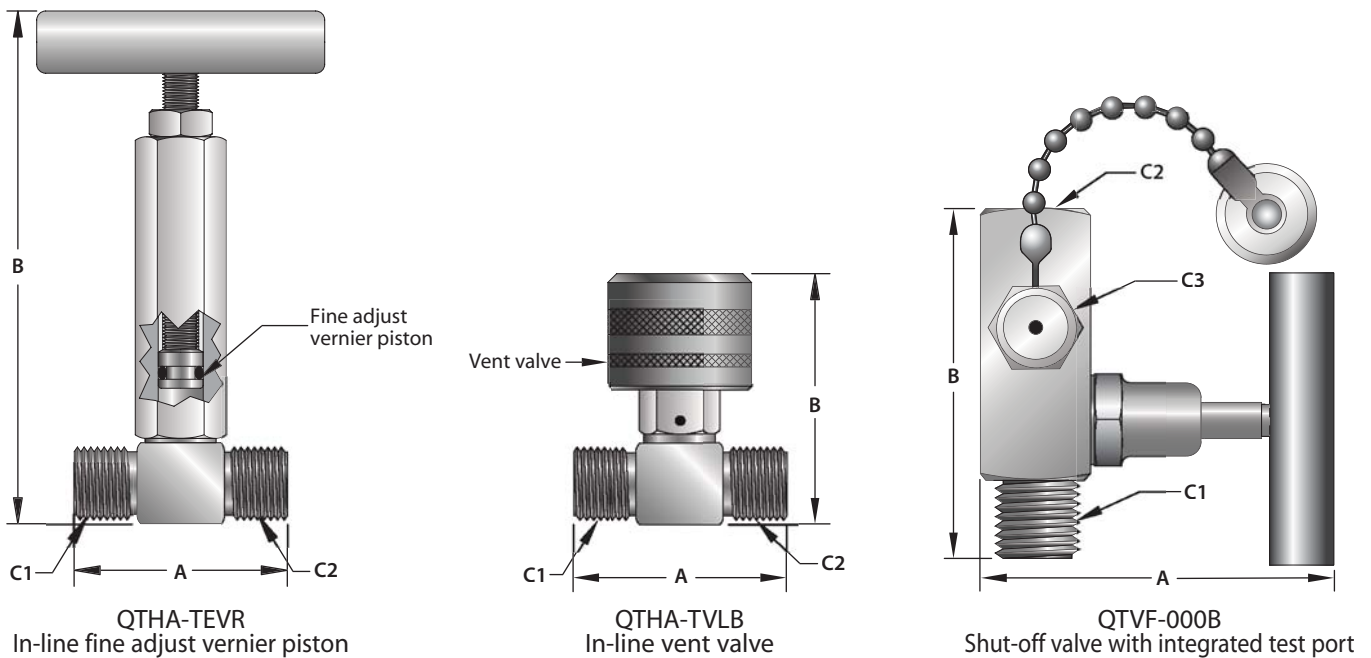
Connects two QT or QS hoses together



Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-HSHS	Male QT	Male QT	No	Brass	5000 (350)	1.25 (3.18)	0.56 (1.42)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals.

Quick-test™ Valves and Valved Fittings



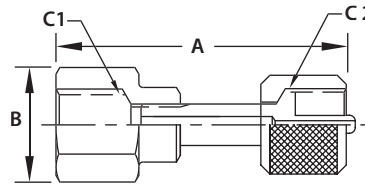
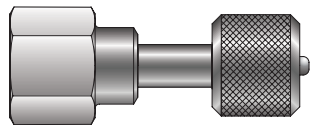
Ralston Part Number	End C1	End C2	End C3	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTVF-000B	1/4" Male NPT	1/4" Female NPT	Male QT	Brass	3000 (210)	2.60 (6.60)	2.50 (6.35)
QTVF-000S	1/4" Male NPT	1/4" Female NPT	Male QT	304 S.S.	3000 (210)	2.60 (6.60)	2.50 (6.35)
QTHA-TVLB	Male QT	Male QT	—	Brass	3000 (210)	2.03 (5.16)	0.75 (1.90)
QTHA-TEVR	Male QT	Male QT	—	Brass	3000 (210)	2.03 (5.16)	0.75 (1.90)

Dimensions are for reference only and subject to change. Buna-N seals are standard. Add -VT for Viton™ seals or -LT for low temperature seals. A pressure tight seal is made on the threads. See page 19 for thread explanation and specifications.



NPT Female Quick-test™ Gauge Adapters

Connects male NPT to QT or QS male adapter

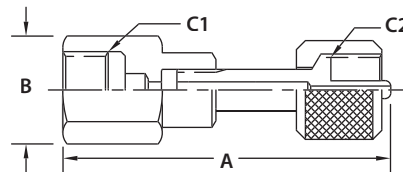
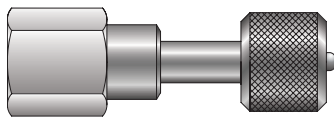


Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1FBA	1/8" Female NPT	Female QT	No	Brass	5000 (350)	1.48 (5.03)	0.71 (1.80)
QTHA-2FBA	1/4" Female NPT	Female QT	No	Brass	5000 (350)	2.03 (5.16)	0.75 (1.90)
QTHA-2FSA	1/4" Female NPT	Female QT	No	304 S.S.	5000 (350)	2.03 (5.16)	0.75 (1.90)

Dimensions are for reference only and subject to change. A pressure tight seal is made on the threads. See page 19 for thread explanation and specifications.

Female RG Quick-test™ Gauge Adapters

Connects male BSPP (ISO 228/1) parallel thread to QT or QS male adapter



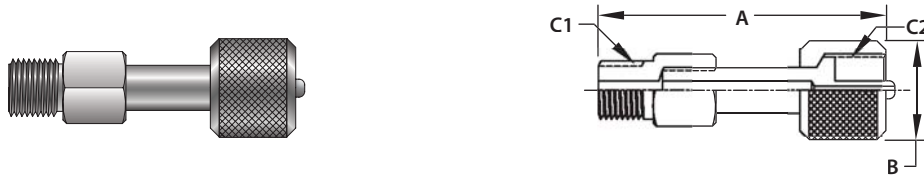
Ralston Part Number	End C1 BSPP (ISO 228/1)	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-2FBA-RG	G 1/4" Female	Female QT	No	Brass	5000 (350)	2.20 (5.60)	0.75 (1.91)
QTHA-3FBA-RG	G 3/8" Female	Female QT	No	Brass	5000 (350)	2.20 (5.60)	0.94 (2.38)
QTHA-4FBA-RG	G 1/2" Female	Female QT	No	Brass	5000 (350)	2.31 (5.86)	1.06 (2.69)

Dimensions are for reference only and subject to change. A pressure tight seal is not made on the threads. A copper ring should be placed in the bottom of the Female RG (BSPP) adapter (see page 18) and clamped against the bottom of the male gauge fitting. See page 19 for thread and seal explanation and specifications.



NPT Male Quick-test™ Pressure Calibrator Adapters

Connects female NPT to QT or QS male adapter

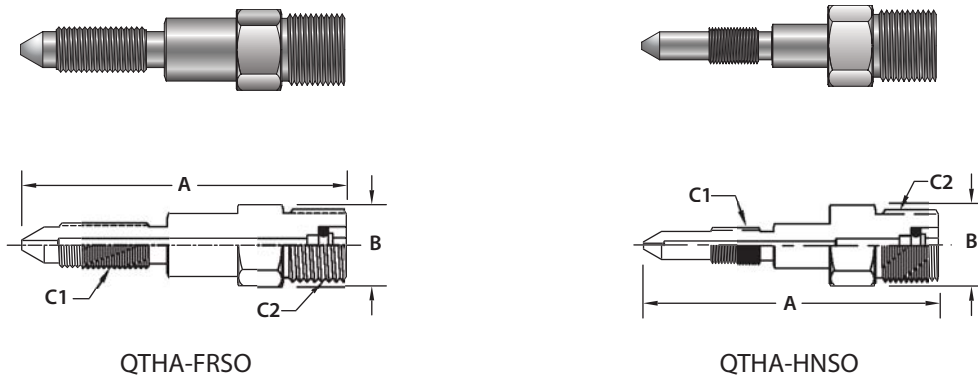


Ralston Part Number	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
						A in (cm)	B in (cm)
QTHA-1MBA	1/8" Male NPT	Female QT	No	Brass	5000 (350)	1.86 (4.72)	0.71 (1.80)
QTHA-2MBA	1/4" Male NPT	Female QT	No	Brass	5000 (350)	2.02 (5.13)	0.71 (1.80)

Dimensions are for reference only and subject to change. A pressure tight seal is made on the threads. See page 19 for thread explanation and specifications.

DP Transmitter Calibration Adapters

Connects Foxboro, Rosemount, Yokogawa and Honeywell bleed ports to QT or QS hose



QTHA-FRSO

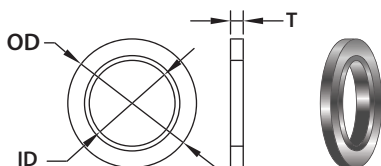
QTHA-HNSO

Ralston Part No.	Used with	End C1	End C2	Check Valve	Material	Work. Pres. psi (bar)	Dimensions	
							A in (cm)	B in (cm)
QTHA-FRSO	Foxboro	5/16-24 UNF	Male QT	No	304 S.S.	5000 (350)	2.06 (5.23)	0.56 (1.42)
QTHA-FRSO	Rosemount	5/16-24 UNF	Male QT	No	304 S.S.	5000 (350)	2.06 (5.23)	0.56 (1.42)
QTHA-FRSO	Yokogawa	5/16-24 UNF	Male QT	No	304 S.S.	5000 (350)	2.06 (5.23)	0.56 (1.42)
QTHA-HNSO	Honeywell	1/4-28 UNF	Male QT	No	304 S.S.	5000 (350)	2.26 (5.73)	0.56 (1.42)

Dimensions are for reference only and subject to change. A pressure tight seal is made via metal to metal seal in the DP transmitter bleed port. See page 19 for thread explanation and specifications.



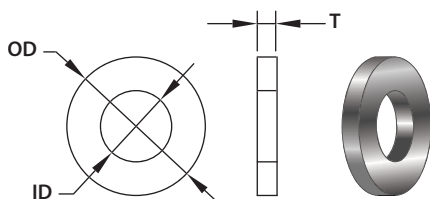
Bonded Seals for RS Quick-test™ Adapters



Ralston Part Number	Used for	Dimensions in. (cm)			Material	Work. Pres. psi (bar)
		OD	ID	H		
QTHA-1BR-RS	1/8" Male RS	0.59 (1.50)	0.39 (1.0)	0.04 (0.1)	Steel/Buna-N	5300 (370)
QTHA-2BR-RS	1/4" Male RS	0.75 (1.91)	0.52 (1.32)	0.06 (0.15)	Steel/Buna-N	5500 (380)
QTHA-3BR-RS	3/8" Male RS	0.91 (2.31)	0.66 (1.68)	0.06 (0.15)	Steel/Buna-N	4400 (300)

Dimensions are for reference only and subject to change. Bonded seals consist of a Buna-N inner ring bonded to a carbon steel outer ring with RS Quick-test™ (BSPP) adapters. See page 19 for thread explanation.

Copper Washers for RG Quick-test™ Adapters

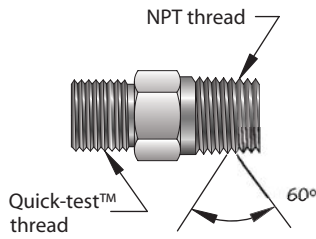


Ralston Part Number	Used for	Dimensions in. (cm)			Material
		OD	ID	H	
QTHA-2CR-RG	G 1/4" Male RG	0.42 (1.07)	0.30 (0.76)	0.07 (0.18)	Copper
QTHA-3CR-RG	G 3/8" Male RG	0.57 (1.45)	0.44 (1.12)	0.10 (0.25)	Copper
QTHA-4CR-RG	G 1/2" Male RG	0.70 (1.78)	0.36 (0.91)	0.10 (0.25)	Copper

Dimensions are for reference only and subject to change. Copper washers provide a seal between the bottom of BSPP (ISO 228/1) pressure gauges and RG Quick-test™ adapters. See page 19 for thread explanation.

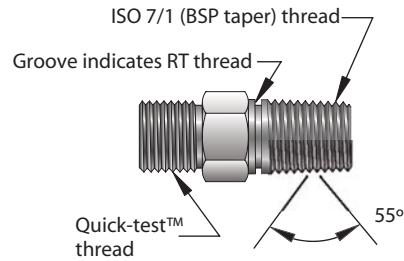


NPT Taper Pipe Thread Seal



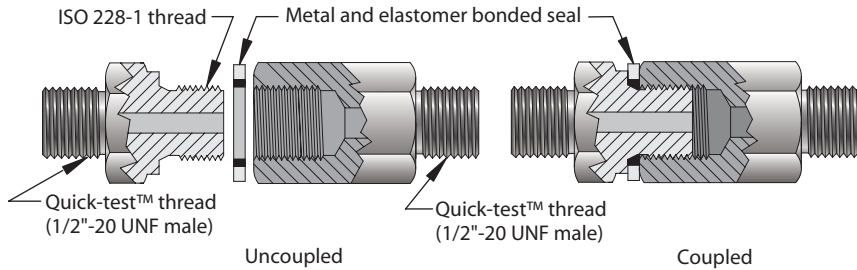
A pressure-tight seal is made on the threads. The angle between crests is 60° in accordance with the following reference specifications: ANSI/ASME B1.20.1-1983.

RT Seal ISO 7/1 (BSP) taper pipe thread



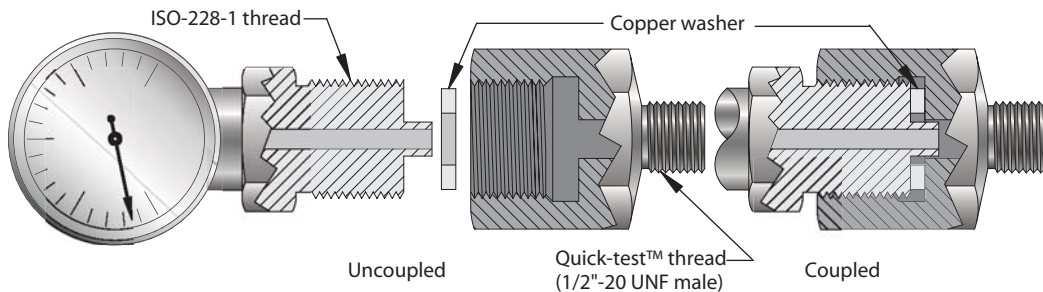
A pressure-tight seal is made on the threads. Similar to NPT but the angle between crests is 55° and is incompatible with NPT threads. Threads in accordance with the following reference specifications: ISO 7-1: 1994, BS 21:1985, DIN 2999 (male), JIS 0203.

RS Seal ISO 228-1 (BSPP) thread



A pressure-tight seal is not made on the threads. The seal is made with a bonded elastomer and metal ring which seals against the flat face of the female port. A taper in the male fitting centers the bonded ring. Threads in accordance with the following reference specifications: ISO 228-1:2000, BS 2779:1986 (BSPP), DIN 228-1, JIS B0202.

RG Seal ISO 228-1 (BSPP) thread



A pressure-tight seal is not made on the threads. The seal is made with a copper washer which is clamped between the bottom of the male gauge fitting and the female fitting. Threads in accordance with the following reference specifications: ISO 228-1:2000, BS 2779:1986 (BSPP), DIN 228-1, JIS B0202.





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