

Silonite[™] MicroValves[™]



SILONITE[™] MicroValves[™]

High Performance, Chromatographic Grade Quick Connect Valves.

Tool Free, Leak Free - Micro-QT™

The Micro-QT is a next generation gas valve offering uncompromising leak-tight performance in an ergonomic design. The Micro-QT is also versatile, providing numerous connection options to cover a wide range of applications. Once connecting the valve to tubing using compression fittings, mating male and female valve ends is literally just a quick "snap".

Originally designed for environmental air sampling and analysis, the Micro-QT has found a place in numerous other applications. Micro-QT's feature a distinctive bright and colorful Silonite coating that prevents gas phase compounds from interacting with the metal surface. The rugged, solid design stands up to thousands of connections, while maintaining leak tight operation. For scientists and professionals working with VOC and SVOCs, the Micro-QT's compact internal volume reduces exposure to potentially contaminated surfaces and allows for easy cleaning.

MicroValve[™] Features:

- Fast Connection
- No Welds
- Very Light & Compact
- Inexpensive

Popular Applications:

- Laboratory Gas Lines
- Canister Field Sampling
- Headspace & Chambers

Lowest Inclusion Volume

Instrument Inlets

Sampling Equipment

Gas Manifold Connections

- Ideal for Automation
- Easily Cleaned
- Clear Connection Indication



The Micro-QT[™] Valve is optimized for volatile and light semi-volatile compounds. MicroValves[™] are compatible with existing Entech sampling devices by simply adding a female Micro-QT[™] to ¼" adapter (PN MQT-400).

Instructions for Field Sampling:

Micro-QT[™] – as primary canister valve





To attach your new Micro-QT[™] Valve to your Entech Canister, simply tighten the valve onto the canister stem in place of the original valve.

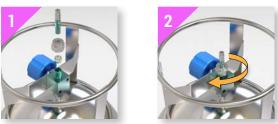
Micro-QT[™] – attach to sampling accessories





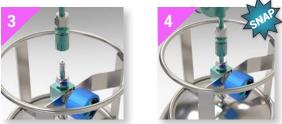
To Attach your new Female Micro-QT[™] to your existing CS1200E[™] or other sampling accessory is simple.

Micro-QT[™] – for use with packless valves



To attach your Micro- QT^{M} valve to an exsisting packless valve, just line up the nut, ferrule, and Micro- QT^{M} stem, place it on, and lightly wrench tighten.

Micro-QT[™] – connect sampling components



Now you are ready to sample with the world's most inert MicroValves[™] with the added convenience of being completely tool-free.

Micro-QT[™] Valves (Male Fittings)

Male to Compression







MQT-100S Silonite[™] Male Micro-QT[™] Valve to 1/16" Compression Fitting (Use MQT-100 for uncoated fitting)

MQT-200S

Silonite[™] Male Micro-QT[™] Valve

to 1/8" Compression Fitting

(Use MQT-200 for uncoated fitting)

MQT-400S

Silonite[™] Male Micro-QT[™] Valve to 1/4" Compression Fitting

(Use MQT-400 for uncoated fitting)

MQT-600S

Silonite[™] Male Micro-QT[™] Valve

to 3/8" Compression Fitting (Use MQT-600 for uncoated fitting)





MQT-ST400S Silonite[™] Male Micro-QT[™] Valve Short - to ¼" Tube Fitting For 6L cans with existing valves (Use MQT-ST400 for uncoated fitting)

MQT-LUERS Silonite[™] Male Micro-QT[™] Valve to Luer-Lok® Fitting (Use MQT-LUER for uncoated fitting)



MQT-MP200S Silonite[™] Male Micro-QT[™] to 1/8" Male NPT Assembly (Use MQT-MP200 for uncoated fitting)

MQT-400L-GS



MQT-400LS Silonite[™] Male Micro-QT[™] Valve Long - to 1/4" Compression Fitting Recommended for 2.7, 3.2 & 6L Canisters (Use MQT-400L for uncoated fitting)







MQT-400L-DS Silonite[™] Male Micro-QT[™] Valve -Long to 1/4" Compression Fitting / Capped Tube (Use MOT-400L-DS for uncoated fitting)

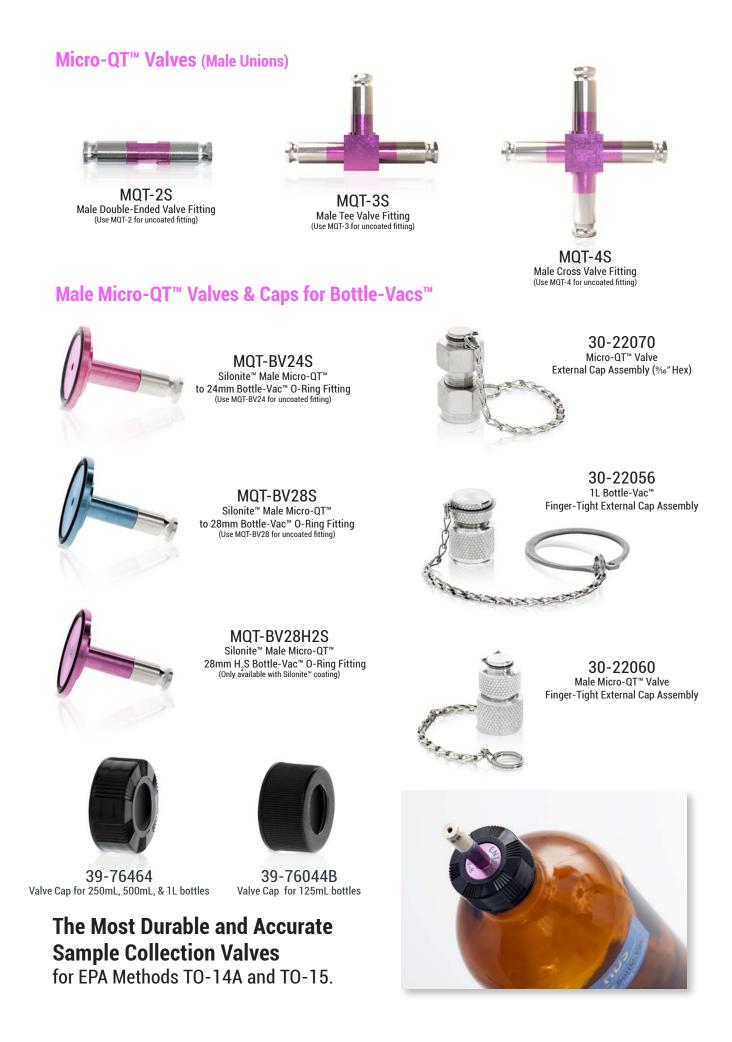
MQT-BH200S Silonite[™] Male MQT to 1/8" Bulkhead (Use MQT-BH200 for uncoated fitting)



MQT-REPAIR Silonite[™] Male Micro-QT[™] Repair Kit







Micro-QT[™] Valves (Female Fittings)

Female to Compression







Female to Bulkhead

FQT-100S Silonite[™] Female Micro-QT[™] Valve to 1/16" Compression Fitting (Use FQT-100 for uncoated fitting)

FQT-200S Silonite[™] Female Micro-QT[™] Valve to 1/8" Compression Fitting (Use FQT-200 for uncoated fitting)

FQT-400S Silonite[™] Female Micro-QT[™] Valve to 1/4" Compression Fitting (Use FQT-400 for uncoated fitting)





Other Female Connections

FQT-T400S Silonite[™] Female Micro-QT[™] Valve to 1/4" Tube Fitting (Use FQT-T400 for uncoated fitting)

FQT-MP200S Silonite[™] Female Micro-QT[™] Valve to 1/8" Male NPT Assembly (Use FQT-MP200 for uncoated fitting)

FQT-FP200S Silonite[™] Female Micro-QT[™] Valve to 1/8" Female NPT Connection Fitting (Use FQT-FP200 for uncoated fitting)

FQT-LUERS Silonite[™] Female Micro-QT[™] Valve to Luer-Lok® Fitting (Use FQT-LUER for uncoated fitting)



Silonite[™] Female Micro-QT[™] Valve to 1/8" Compression - Bulkhead Fitting (Use FQT-BH200 for uncoated fitting)

FQT-BH200S



FQT-BH100S Silonite[™] Female Micro-QT[™] Valve to 1/16" Compression - Bulkhead Fitting (Use FQT-BH100 for uncoated fitting)





Female to ¼" Compression – 5400B Thermal Transfer System



FQT-400VLS Silonite[™] Female Micro-QT[™] Valve to ¼" Compression Fitting (5400B) (Only available with Silonite[™] coating)

Featured here being used on the Entech 5400B Thermal Transfer System

Micro-QT[™] Test Gauges (Female Fittings)



29-70010QT 30-0"Hg Vacuum Gauge to Female Micro-QT[™] Valve Fitting



29-70020QT 30"Hg-0-40psi Compound Gauge to Female Micro-QT[™] Valve Fitting

Micro-QT[™] Valve Kit (Male & Female Fittings)



MQT-100S	MQT-200S	МQТ-4005	MQT-600S J/B" COMPRESSION FITTING	MQT-400LS	MQT-400L-DS
	MQT-T400S	MQT-ST400S	MQT-25 Vac Times	MQT-35 Vuc firms	MQT-4S Vac Firms
					
MQT-MP200S 1/8* Male NPT Assembly	MQT-LUERS	FQT-100S	FQT-200S	FQT-400S 1/4" COMPRESSON FITTING	FQT-600S 3/8" COMPRESSION FITTING
		-:			
FQT-BH100S 1/16" COMPRESSION FITTING	FQT-BH200S	FQT-T400S	FQT-MP200S	FQT-FP200S	FQT-LUERS

Grab & Critical Orifice Sampling MicroValves™

There are several ways to fill a MicroValve[™] canister or Bottle-Vac[™] depending on sampling requirements. Here's a brief overview:

Grab Sampling

MiniCan™ or Bottle-Vac™ samplers are filled within 0.1-0.3 minutes using an unrestricted sampler with a Micro-QT™ valve.

Restricted Critical Orifice Sampling

Sample collected using a filtered orifice restricted sampler. Fill rates are constant until the canister reaches 1/2 atmosphere.

Time Integrated Sampling

Time integrated sampling is used for slow filling of canisters to determine average target compound concentrations. Fill times are 10–50 times longer than critical orifice restricted samplers. Use CS1200E and PN: MQT-400 adapter for Micro-QT[™] Valve Samplers.



39-RS-QTSx Filtered Restricted Sampler for MicroValve[™] Canisters (See Codes below.) (Use 39-RSQTx for uncoated sampler)

(Use 30-22530 for uncoated assembly)





30-22500S Silonite[™] MicroValve[™] Grab Sampler w/o Filter (Use 30-22500 for uncoated sampler)



D (Us

30-22550S Silonite™ MicroValve™ Dual Grab Sampler Union (Use 30-22550 for uncoated union)

30-22545S Silonite[™] MicroValve[™] Drywall Needle (Use 30-22545 for uncoated needle)

Entech MiniCans[™] feature Silonite[™] for the most accurate analysis of EPA Methods TO-14A and TO-15.

Time to Fill MiniCans[™] – Fill to 50% and 95% of Atmospheric Pressure (in Minutes)

		Approx.	450mL	MiniCan™	600m	L MiniCan™	1L Mir	niCan™	1.4L N	liniCan™	
Part No.	Code		50%	95%	50%	95%	50%	95%	50%	95%	
30-22510	0	No Restrictor	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
39-RS-QT1	1	600cc/Min	*	*	*	*	1	3	1.3	4	
39-RS-QT2	2	150cc/Min	1	3	2	6	3	10	5	15	
39-RS-QT3	3	63cc/Min	3	10	5	15	8	25	10	30	
39-RS-QT4	4	38cc/Min	5	15	8	25	12	40	15	45	
39-RS-QT5	5	19cc/Min	10	30	15	50	25	75	35	100	
39-RS-QT6	6	13cc/Min	15	45	25	70	40	120	60	170	
39-RS-QTx Restricted Sampler for MiniCan [™] with MicroValve [™] : (Replace x with desired flow code)											
39-RS-QTSx Restricted Sampler for MiniCan™ with Silonite™ MicroValve™: (Replace x with desired flow code)											
39-92150 Replacement Filter / O-Ring											

These canister / flow combinations are not recommended by Entech Instruments.



MicroValves[™] – The Highest Performing, Most Durable, Chromatographic Grade Quick Connect Valves in the World.

Learn more about us:



entechinst.com



facebook.com/entechinst



twitter.com/entechinst



linkedin.com/company/entech-instruments-inc

Entech Instruments 2207 Agate Court Simi Valley, CA 93065 Phone: 805-527-5939 Silonite MicroValves -191021-9.1

© 2019 Entech Instruments. MicroValve, Micro-QT[™], Silonite[™], MiniCan[™], and Bottle-Vac[™] are trademarks of Entech Instruments. All Rights Reserved.