

Nitrogen Calibration Manifolds

QTCM (3000 psi / 210 bar), QSCM (5000 psi / 350 bar)

The most economical solution for doing static pressure calibrations with compressed nitrogen gas.

Features:

- Available in both brass (3000 psi / 210 bar) and stainless steel (5000 psi / 350 bar) models
- Fine adjustment piston provides precise pressure control instead of trying to make adjustments with a pressure regulator and a needle valve
- Soft-seated valves make filling and venting the system very precise
- Compact design allows the manifold, gauge adapter and hoses to fit in the included nylon bag
- Because pressure is controlled at the device under test, the nitrogen cylinder can be mounted on a truck
- Low volume Quick-test hose, gauge adapter and process connection reduce gas usage and make nitrogen cylinders last longer
- Made in U.S.A.



Specifications		
Type of Manifold	QTCM (brass) manifolds	QSCM (stainless steel) manifolds
Maximum pressure	3000 psi (210 bar)	5000 psi (350 bar)
Pressure media	Compressed nitrogen	Compressed nitrogen
Fine adjust resolution	± 0.1 psi (6.9 mbar)	± 0.1 psi (6.9 mbar)
Reference connection	Brass - see below	Stainless steel - see below
Inlet port	Female Quick-test, brass (QTHA-3SBA)	Female Quick-test, stainless steel (QTHA-3SSA)
Outlet ports	(2) male Quick-test, brass (QTHA-3SB0)	(2) male Quick-test, stainless (QTHA-3SS0)
Quick-test inlet hose	20' (6.1 m) long with check-valve 1 end, brass (QTQC-HOS-20')	20' (6.1 m) long, check-valve 1 end, stainless steel (QTQN-HOS-20')
Quick-test outlet hose	2' (0.6 m) long, brass (QTQT-HOS-2')	2' (0.6 m) long, stainless steel (QSQS-HOS-2')
Process connections	(2) 1/4" male NPT, brass (QTHA-2MB0)	(2) 1/4" male NPT, stainless steel (QTHA-2MS0)
Construction	Brass, stainless steel fine adjust assembly	Stainless steel
Seal material	Buna-N, Teflon™, Delrin™	Buna-N, Teflon™, Delrin™
Weight	2.2 lb (1.0 kg)	2.2 lb (1.0 kg)

Ordering information	
QTCM (brass) manifolds with NPT connections:	
Model	Description
QTCM-1MBA-20'-2'	1/8" male NPT, gauge adapter (QTHA-1MBA), 2 hoses, 2 process connections
QTCM-2MBA-20'-2'	1/4" male NPT, gauge adapter (QTHA-2MBA), 2 hoses, 2 process connections
QTCM-2FBA-20'-2'	1/4" female NPT, gauge adapter (QTHA-2FBA), 2 hoses, 2 process connections
QTCM-0000-0-0	QTCM only, no gauge adapter, no hoses, no process connections
QSCM (stainless steel) manifolds with NPT connections	
Model	Description
QSCM-1MSA-20'-2'	1/8" male NPT, gauge adapter (QTHA-1MSA), 2 hoses, 2 process connections
QSCM-2MSA-20'-2'	1/4" male NPT, gauge adapter (QTHA-2MSA), 2 hoses, 2 process connections
QSCM-2FSA-20'-2'	1/4" female NPT, gauge adapter (QTHA-2FSA), 2 hoses, 2 process connections
QSCM-0000-0-0	QSCM only, no gauge connection, no hoses, no process connections

For manifolds with custom length hoses change first hose (inlet) or second hose (outlet) to desired length. Contact your Ralston Instruments dealer or the factory for pricing on custom length hoses. For accessories, repair kits and hoses see page 17. For a complete list of accessories and parts see product manual or detailed specification sheet. For a list of the most commonly used gauge and process connections see page 18. For a complete list refer to Ralston Instruments Pressure Connection catalog. Contact your Ralston Instruments dealer or the factory for information on reference gauges and pressure calibration kits.