



# ME-QTG AND ME-SQTG SERIES LEAK CHECK AND REGULATOR TEST KIT INSTRUCTIONS

1506 George Brown Dr., Marshall, MI 49068, Phone: 269-789-6700, www.marshallexcelsior.com

THESE INSTRUCTIONS ARE FOR USE WITH ME-QTG AND ME-SQTG SERIES GAUGE ASSEMBLIES WHERE THERE IS A REQUIREMENT FOR A PROPANE SYSTEM LEAK CHECK OR TESTING OF PRESSURE REGULATORS. IT IS NOT FOR PRESSURE TESTING NEW PROPANE SYSTEMS OR OTHER APPLICATIONS.

## !!! WARNING !!!

BEFORE THIS KIT IS USED, THE COMPANY AND PERSONNEL CONDUCTING A LEAK CHECK MUST BE AWARE OF THE REQUIREMENTS FOR A LEAK CHECK AND DEFINE THEIR COMPANY POLICIES AND PROCEDURES ACCORDINGLY SO THAT THE TEST IS CONDUCTED IN COMPLIANCE WITH NFPA 54, STATE AND LOCAL REQUIREMENTS. FAILURE TO FOLLOW APPLICABLE CODES, STANDARDS AND THE FOLLOWING INSTRUCTIONS MAY RESULT IN A FIRE, EXPLOSION, PERSONAL INJURY OR DEATH.



**WARNING:** This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

## !!! CAUTION !!!

- Only personnel trained in the proper procedures, codes, standards, and regulations of the LP Gas industry should use and service this equipment.
- Always wear suitable eye protection, gloves and protective clothing when operating or servicing LPG equipment.
- Regular inspection and maintenance is essential for safe operation.

**STEP A)** ME-QTG and ME-SQTG kits may include various gauges. Prior to selecting which gauge will be used for leak check or regulator testing the location for installing the pressure tap valve must be determined based on the following guidelines:

- 1) **30 psi gauge** - Leak check and testing of first stage regulator-pressure tap valve installed in outlet of first stage regulator, intermediate pressure tap on integral two stage regulator.
- 2) **300 psi gauge** - Leak check-high pressure test block with pressure tap valve installed between the tank shut off valve and pigtail at inlet to first stage regulator.
- 3) **5 psi gauge** - Testing regulators with outlet pressure setting less than 4psi-pressure tap valve installed in outlet of regulator being tested.
- 4) **35" water column** - Leak check for systems serving appliances that receive gas at pressures of 1.2 psi or less and testing of low pressure regulators-pressure tap valve installed in outlet of low pressure regulator or at a gas appliance control valve.

**STEP B)** Close the tank service valve tightly before installing any pressure tap valves.

**STEP C)** Install pressure tap valve and gauge to be used per guidelines in **STEP A**.

**STEP D)** Attach the appropriate gauge to the hose quick disconnect on the hose assembly.

**STEP E)** Attach the hose connection swivel fitting from the gauge assembly to the connection provided in **Step C**. **NOTE - HAND TIGHTEN ONLY, DO NOT USE A WRENCH ON THIS FITTING.**

**STEP F)** With the vent valve on the gauge assembly closed, open the tank service valve briefly then close it tightly. The pressure reading on the gauge assembly will increase to the outlet pressure controlled by the regulator where the pressure tap valve is installed or the tank pressure if the high pressure test block with the 300 psi is used.

**MAKE NOTE OF THIS GAUGE PRESSURE.**

**STEP G)** Open the vent valve to drop the gas pressure to unlock regulators upstream of the pressure tap and conduct leak check in compliance with NFPA 54 annex guidelines. **MAKE NOTE OF THIS INITIAL TEST PRESSURE.**

**STEP H) TESTING** – With the vent valve closed, observe the pressure reading **for a minimum of three minutes** for any increase or drop in initial test pressure from the **Step G**.

**IF THE PRESSURE ON THE TEST GAUGE DROPS AT ALL FROM THE INITIAL TEST PRESSURE OF STEP G**, it is an indication that there is a leak in the system. Be sure that the connections you have made, including the hose swivel connection, are secure and repeat **Steps F thru H**. **If the pressure drop is repeated, there is a leak in the system and service is required.**

**IF THE PRESSURE ON THE TEST GAUGE INCREASES AT ALL FROM THE INITIAL TEST PRESSURE OF STEP G** it may an indication that the tank service valve is leaking or may not have been closed tightly. Retighten the tank service valve and repeat **Steps F thru H**. **If the pressure increase is repeated, service is required.**

**Company policy will dictate if a pressure tap valve or test block will remain in the system after the test is completed. If it is not removed, place a cap on the valve.**

The tank service valve must remain closed until pilot lights or appliances are being relit. The customer should be notified of leak check test results and any action that may be required before attempting to relight pilot lights or appliances.

The contents of this publication are for informational purposes only. While every effort has been made to ensure accuracy, these contents are not to be construed as warranties or guarantees, expressed or implied, regarding the products or services described herein or for their uses or applicability. Marshall Excelsior Co. reserves the right to modify or improve the designs or specifications of such products at any time without notice. The MEC™ logo is the trademark of Marshall Excelsior Co.