

10BTKL-KIT LOW PRESSURE TEST GAUGE INSTRUCTIONS

THIS PRODUCT IS FOR OUT-OF-GAS LEAK TESTING APPLICATIONS OR FOR PRESSURE TESTING NEW INSTALLATIONS.

BEFORE THIS TEST KIT IS USED, THE COMPANY AND PERSONNEL INVOLVED MUST BE AWARE OF THE REQUIREMENTS IN NFPA 54, AND NFPA 58 REGARDING LEAK TESTING. THE COMPANY MUST DEFINE THEIR POLICIES AND PROCEDURES ACCORDINGLY SO THAT TESTS CONDUCTED ARE IN COMPLIANCE WITH THESE CODES AND ALL OTHER STATE AND LOCAL REQUIREMENTS.

- **STEP 1** – Prior to installation of any adapters, close the tank service valve.
- **STEP 2 – !!! IMPORTANT !!!** The Leak Gauge assembly is designed for connection to the system at the outlet from the second-stage low pressure regulator or downstream.

The Leak Gauge assembly cannot be used upstream of the second-stage regulator.

- ✧ **STEP 3** – Locate a 1/8" NPT regulator pressure tap connection at the outlet from the second-stage regulator, or downstream from the second-stage regulator. Remove one of these plugs and install the pressure tap valve (J608B-02) into the regulator pressure tap connection.
- ✧ **STEP 4** – Attach the hose connection swivel fitting on the Leak Test assembly onto the pressure tap valve provided in step #3. Hand tighten this connection to ensure a positive seal is made. **Do not overtighten this will cause leakage.** If connection begins to leak order repair kit no. 10BTK-GSKT.
- ✧ **STEP 5** – With the bleeder valve on the leak test gauge in the **closed** position, slowly open the tank service valve. The pressure reading on the test gauge will increase to the regulated outlet pressure, as controlled by the second-stage low pressure regulator. (around 11" W.C.)
!!! IMPORTANT !!! Be sure to note this initial pressure reading.
- ✧ **STEP 6** – Fully close the tank service valve.
- ✧ **STEP 7** – Slowly open the bleeder valve on the Leak Test gauge assembly until the initial pressure recorded in step #5 drops to the next graduation mark below your initial pressure reading in step #5. Then close the bleeder valve.
!!! IMPORTANT !!! Be sure to note this starting test pressure reading.



WARNING: These products contain a chemical known to the state of California to cause cancer and birth defects or reproductive harm

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- **STEP 1** – Prior to installation of any adapters, close the tank service valve.
- **STEP 2 – !!! IMPORTANT !!!** The Leak Gauge assembly is designed for connection to the system at the outlet from the second-stage low pressure regulator or downstream.

The Leak Gauge assembly cannot be used upstream of the second-stage regulator.

- ✧ **STEP 3** – Locate a 1/8" NPT regulator pressure tap connection at the outlet from the second-stage regulator, or downstream from the second-stage regulator. Remove one of these plugs and install the pressure tap valve (J608B-02) into the regulator pressure tap connection.
- ✧ **STEP 4** – Attach the hose connection swivel fitting on the Leak Test assembly onto the pressure tap valve provided in step #3. Hand tighten this connection to ensure a positive seal is made. **Do not overtighten this will cause leakage.** If connection begins to leak order repair kit no. 10BTK-GSKT.
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- **STEP 1** – Prior to installation of any adapters, close the tank service valve.
- **STEP 2 – !!! IMPORTANT !!!** The Leak Gauge assembly is designed for connection to the system at the outlet from the second-stage low pressure regulator or downstream.

The Leak Gauge assembly cannot be used upstream of the second-stage regulator.

- ✧ **STEP 3** – Locate a 1/8" NPT regulator pressure tap connection at the outlet from the second-stage regulator, or downstream from the second-stage regulator. Remove one of these plugs and install the pressure tap valve (J608B-02) into the regulator pressure tap connection.
- ✧ **STEP 4** – Attach the hose connection swivel fitting on the Leak Test assembly onto the pressure tap valve provided in step #3. Hand tighten this connection to ensure a positive seal is made. **Do not overtighten this will cause leakage.** If connection begins to leak order repair kit no. 10BTK-GSKT.
- ✧ **STEP 5** – With the bleeder valve on the leak test gauge in the **closed** position, slowly open the tank service valve. The pressure reading on the test gauge will increase to the regulated outlet pressure, as controlled by the second-stage low pressure regulator. (around 11" W.C.)
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- **STEP 8** – Observe the pressure reading on the Leak Test gauge for 3 minutes looking for any increase or decrease in the pressure reading.
 - If the pressure reading increases, it is an indication that the tank service valve seat is leaking. Close the tank service valve. Disconnect the first-stage regulator pigtail assembly from the outlet of the tank service valve. Install the isolation valve assembly (10BTK-2) included with the test kit into the outlet of the tank service valve. Connect the first-stage regulator pigtail assembly into the female POL thread connection of the isolation valve assembly. With the isolation valve in the open position repeat steps #4 and #5. Then repeat step #6, and close the isolation valve after closing the tank service valve. Then repeat steps #7 and #8.
 - If the pressure reading drops, it is an indication that there is a leak in the system. Make sure that the connections you have made, including the test hose connection are secure and repeat steps #5, 6, 7, and 8.
 - If the pressure reading still continues to drop, there is a leak in the system that indicates further service is required before continuing with the leak test.

➤ **STEP 9 – COMPLETION OF TEST**

Company policy will dictate if the pressure tap valve (J608B-02) will remain in place in the regulator pressure tap port as a permanent part of the installation or be removed. If the pressure tap valve is left in place, install a cap on the pressure tap valve. If test connections are removed, you must check the affected joints for leaks using a leak detection solution approved by your company.

➤ **STEP 10 – The tank service valve shall remain closed until all pilot lights are relit.** If the tank service valve seat was found to be leaking during the test, the Isolation Valve Assembly (10BTK-2) must be left in place as a primary shut-off between the tank service valve and first-stage regulator until the tank service valve can be changed or repaired.

IF THE PILOTS ARE NOT RELIT AT THE TIME OF THE TEST, THE CUSTOMER MUST BE NOTIFIED OF THE ACTION TAKEN.

Bergquist, Inc. – 1100 King Road – Toledo, Ohio 43617 – Phone: 1-800-537-7518
For replacement parts use the following part numbers:



Pressure Tap Valves : P/N - J608B-02

Low Pressure Test Gauge (0-35" W.C.) : P/N - 60-2



High Pressure Isolation Valve: P/N - 10BTK-2

Adjustment Screw Driver: P/N - 60P-2-01

Filler Gasket Repair Kit: P/N - 10BTK-GSKT

Instruction #428 Rev-C

- **STEP 8** – Observe the pressure reading on the Leak Test gauge for 3 minutes looking for any increase or decrease in the pressure reading.
 - If the pressure reading increases, it is an indication that the tank service valve seat is leaking. Close the tank service valve. Disconnect the first-stage regulator pigtail assembly from the outlet of the tank service valve. Install the isolation valve assembly (10BTK-2) included with the test kit into the outlet of the tank service valve. Connect the first-stage regulator pigtail assembly into the female POL thread connection of the isolation valve assembly. With the isolation valve in the open position repeat steps #4 and #5. Then repeat step #6, and close the isolation valve after closing the tank service valve. Then repeat steps #7 and #8.
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