

B GAS TEST KIT

DESCRIPTION AND USE

1. GENERAL

1.01 This section describes the B Gas Test Kit and covers its use for checking the operation of hot wire gas indicators.

1.02 This section is reissued to revise the test requirements as contained in 3.06.

1.03 The B Gas Test Kit should not be used for calibrating purposes. It is used to determine if a gas indicator is in operating condition.

1.04 The test outlined in this practice *shall be made each day* before the hot wire gas indicator is used.

2. DESCRIPTION

2.01 The B Gas Test Kit consists of a screw spout plastic bottle containing 2 free pieces of metal and 24 separately packaged gas-filled

glass ampoules in a cylindrical cardboard case (Fig. 1). When an ampoule is placed in the bottle and broken by shaking with the metal pieces, the gas from the ampoule is mixed with the fixed quantity of air in the bottle, and a predetermined gas-air mixture is obtained for testing hot-wire gas indicators.

3. USE

3.01 Remove the screw spout and remove from the plastic bottle any ampoule fragments from previous use. Before inserting an ampoule, squeeze the bottle several times to ensure that all combustible gas from previous test has been expelled. Place the ampoule in the bottle and replace the screw spout, making sure its cap is in place. Hold the bottle with screw spout upward and tilted about 30 degrees from the vertical.



Fig. 1 — B Gas Test Kit

Note: Ampoules should be the new type with a blue ring around the constriction at the neck. If the ampoule has no blue ring, it is obsolete and is not to be used.

3.02 Vigorously shake the bottle up and down until the ampoule is broken (Fig. 2). Continue to shake the bottle vigorously for about five seconds to ensure the ampoule is completely shattered.



Fig. 2 — Shaking Plastic Bottle to Break Gas Ampoule

3.03 Switch on the gas indicator, making sure it is ready for use per instructions for the instrument.

3.04 Remove the cap from the screw spout of the plastic bottle and insert the spout into the inlet of the gas indicator (Fig. 3).

3.05 Squeeze the bottle *slowly and steadily*. *Maintain pressure on the bottle to prevent additional air being drawn into bottle and diluting the mixture. During this test do not squeeze and release (aspirate) the bulb of the gas indicator.*

3.06 Note the reading of the hot wire gas indicator meter. If the reading is within the range of .18 and .5, or 18% and 50% (depending upon the type of gas indicator used), the gas indicator is operating properly. If the reading is higher or lower than these values the test should be repeated. If the second test also gives a reading higher or lower than the values stated above, the indicator should be returned for service in accordance with local practice.

3.07 After testing, remove the screw spout and shake the broken glass from the bottle into a suitable container.

4. REPLACEMENT PARTS

4.01 Ampoules are available as replacement parts and are supplied in packages containing 12 ampoules. Orders should be worded as follows:

(Quantity) pk Ampoules, for B Gas Test Kit.

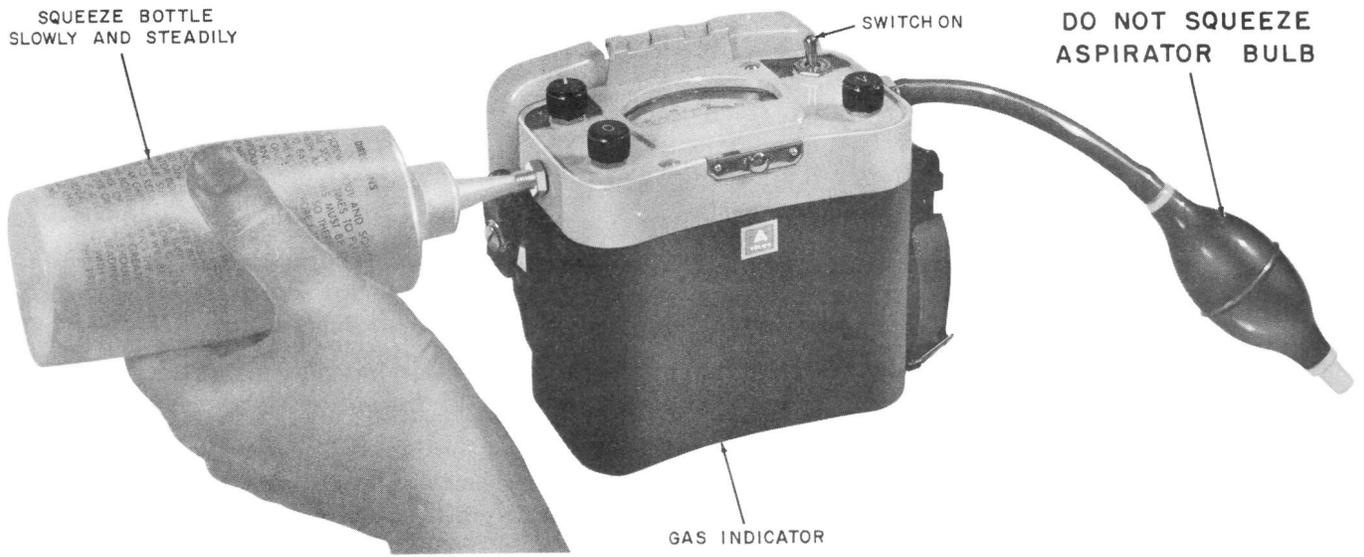


Fig. 3 — Using B Gas Test Kit to Check Gas Indicator