

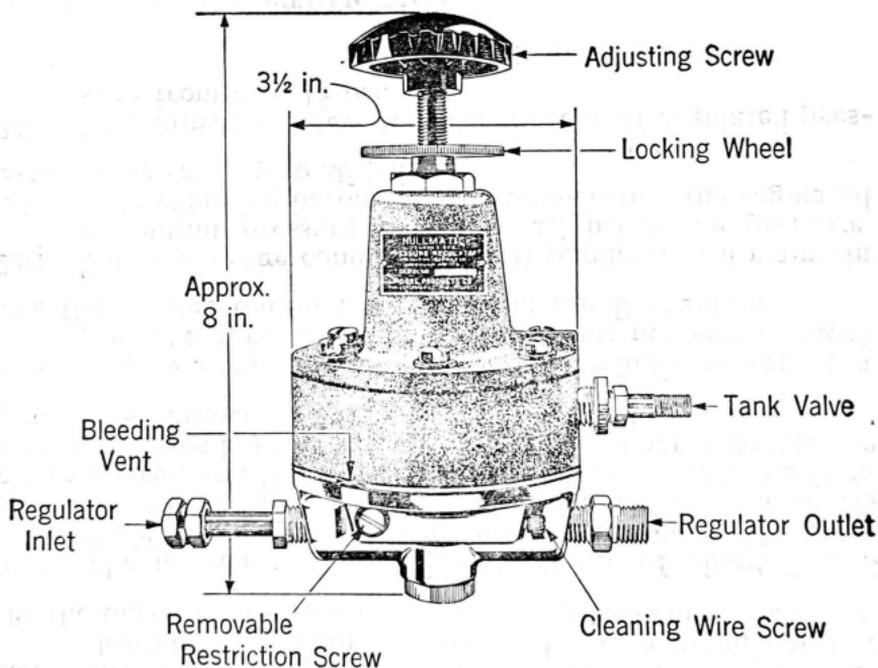
PRESSURE TESTING TOOLS

B GAS REGULATOR

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1. GENERAL

1.01 This section describes the B Gas Regulator which is used in conjunction with the ordinary two-stage regulator to provide close control of gas pressure for leak locating purposes.



2. DESCRIPTION

2.01 The B Gas Regulator illustrated above is a **single-stage** bleeding-type regulator equipped with a gland and nut to fit the outlet connection of the ordinary two-stage regulator.

2.02 The bleeder vent allows a discharge of about 2 to 3 cubic feet of gas per hour to the atmosphere. This supplies the energy to operate the valve mechanism which controls the output pressure. If the total quantity of gas discharged from the cylinder rises beyond 5 or 6 cubic feet per hour, examine the regulator as outlined in Part 4.

2.03 The two-stage regulator on the cylinder is set at a pressure approximately 5 psi (pounds per square inch) above the desired output pressure from the B regulator.

2.04 Under average conditions the B regulator will maintain its output pressure to within .02 psi gauge pressure. With rapidly changing barometer and temperature the regulated pressure may vary up to .05 psi.

2.05 The adjusting screw provides a range of regulated pressure from 0 to 15 psi.

3. OPERATING INSTRUCTIONS

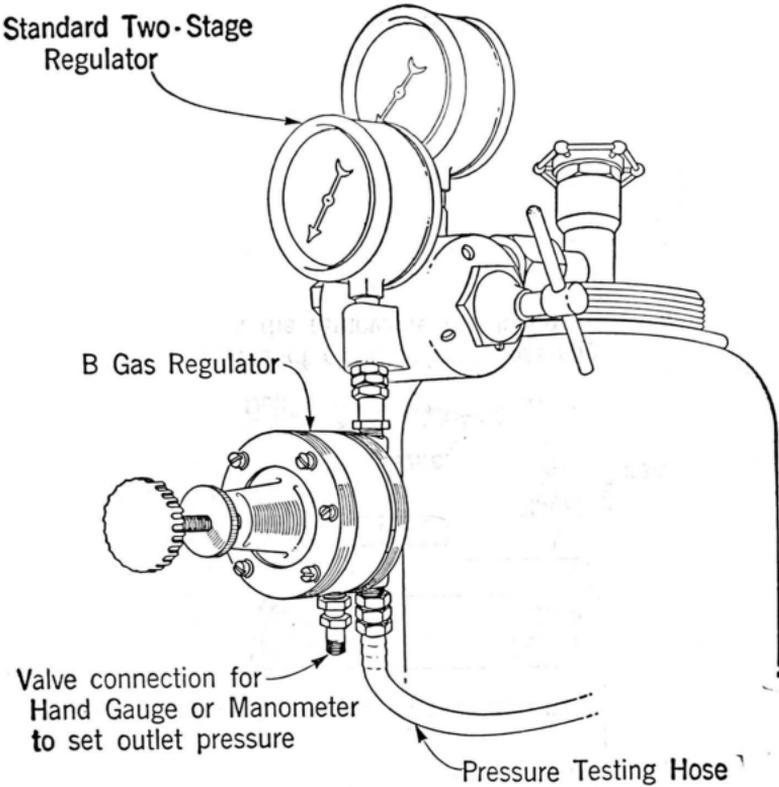
3.01 Since the use of the regulator may result in a discharge from the cylinder of as much as 4 to 6 cubic feet per hour (this includes the gas fed to the cable) make sure that the cylinder has sufficient gas to last for the duration of the test.

3.02 The gas cylinder should preferably be located so as to avoid direct exposure of the regulators to the sun.

3.03 The two-stage regulator used ahead of the B regulator should be in good operating condition.

3.04 Set up the apparatus as follows:

- (1) Connect the B regulator to the two-stage regulator and attach the pressure hose as shown below:



- (2) Check the regulator connections for leaks in the usual manner.
- (3) Set the two-stage regulator to approximately 5 psi gauge pressure above the desired outlet pressure from the B regulator.
- (4) Connect an accurate hand gauge or the manometer to the tank valve on the B regulator. With the outlet hose closed, turn the adjusting screw to give the desired outlet pressure.
- (5) Connect the hose to the cable and reset the two-stage regulator if necessary, as well as the B regulator. After 5 or 10 minutes of gas flow, check the pressures and reset if

necessary. Then tighten the locking wheel on the B regulator to avoid inadvertent change in outlet pressure.

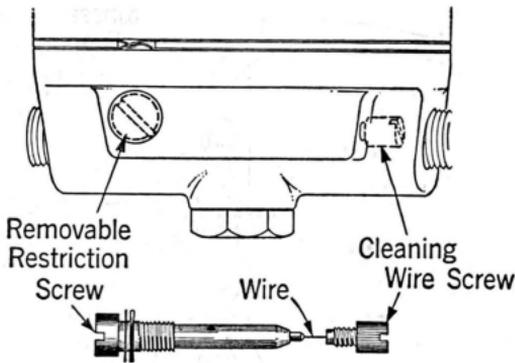
(6) The hand gauge or manometer can now be removed.

4. MAINTENANCE

4.01 When the B regulator is not in use, it is advisable to protect the regulator inlet and outlet openings by wrapping them with rubber or friction tape. This will prevent entrance of dirt particles which might lodge in the mechanism.

4.02 If the volume of gas discharge from the cylinder rises beyond 5 or 6 cubic feet per hour when using the B regulator as outlined herein, it may be due to a stoppage of the small opening in the removable restriction.

4.03 A cleaning wire is provided to clear this opening, which can be done as indicated below.



Method of cleaning small opening
in the removable restriction