C GAS REGULATOR

1. GENERAL

1.01 This section describes the C Gas Regulator intended for controlling the pressure of the gas required in splicing cable conductors by means of the pneumatic presser.

1.02 The C regulator **shall not** be used for pressure testing cables.

2. DESCRIPTION

2.01 The C Gas Regulator, illustrated in the sketch, is a single stage commercial regulator modified to include a high pressure gauge and a fitting for connecting the regulator to a 220 cubic foot nitrogen gas cylinder or a B Nitrogen Cylinder. The regulator consists of a single reducing valve with a safety valve under the control of an adjusting screw and two gauges. The high pressure gauge indicates the pressure of the gas in the cylinder and the volume of gas (at atmospheric pressure). The low pressure gauge indicates the pressure at which the gas is delivered to the regulator outlet. It has a range of regulated pressure from 0 to 180 pounds per square inch and is capable of a maximum flow of 1,500 cubic feet per hour.

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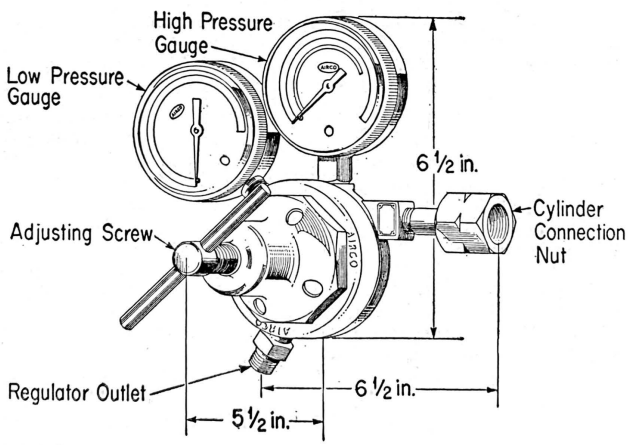

2.02 Before attaching the regulator to a cylinder, open the valve on the cylinder sufficiently to blow out any foreign matter which may have collected in the gas outlet. Then close the valve. Turn the regulator adjusting screw in a counterclockwise direction until it turns freely in its socket, and then attach the regulator to the cylinder outlet. Attach one end of the hose to the regulator hose connection and the other end to the pneumatic presser. Open the valve on the cylinder slowly. The high pressure gauge should then register the pressure in the cylinder. Failure of the high pressure gauge to register (or the low pressure gauge after the regulator has been opened) is an indication that the regulator is defective. Such a regulator should be replaced with one in good condition.

2.03 The flow of gas through the regulator and the outlet pressure are controlled by the regulator adjusting screw. To start the flow, turn the regulator adjusting screw very slowly in a clockwise direction until the low pressure gauge shows the desired pressure. To shut off the gas, turn the regulator adjusting screw in a counterclockwise direction until it turns freely.

2.04 Before removing the regulator from the gas cylinder, make sure that the cylinder valve has been closed and that the regulator adjusting screw has been turned counterclockwise and turns freely. The diaphragm of the regulator will be weakened if the adjusting screw presses against it when the regulator is not in use.

2.05 All nuts on the regulator should be turned with a standard regulator wrench.