INSTRUCTIONS for Prest-O-Lite

R-411 and R-415 ACETYLENE REGULATORS

File Copy

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Approved and Listed by Factory Mutual Laboratories

The R-415 Regulator is factory preset at 7 lb. per sq. in., and will maintain this pressure until the tank is empty. Disregard paragraph B (below) for this regulator.

1. Operating Instructions

A. To Connect

1. Before attaching the regulator, use a PREST-O-LITE tank key (NEVER pliers) to open the tank valve slightly for an instant, then close it again. This blows out any dust or dirt which may be in the valve outlet. NEVER OPEN AN ACETYLENE VALVE NEAR HOT WORK, SPARKS, OR ANY OTHER POSSIBLE SOURCE OF IGNITION.

2. Attach the regulator to the tank valve. (The regulator inlet nut has a right-hand thread.) Tighten the nut with a wrench.

3. Attach the hose to the regulator outlet and to the torch or other appliance. (The connections have left-hand threads.) Tighten the connections with a wrench.

4. SLOWLY, open the tank valve about 1/4 turn.

5. Do not begin operations until you have checked all connections for leaks. Set the regulator for a working pressure of 10 lbs. per sq. in. (see section B for R-411 only), and use a soapy water solution to test connections.

B. To Adjust Working Pressure (R-411)

1. Working pressure is adjusted by use of the pressure-adjusting screw. To increase working pressure, turn the pressure-adjusting screw to the right - clockwise. To decrease pressure, turn the screw to the left - counter-clockwise.

2. If your regulator is equipped with a working pressure gauge, skip steps 3 and 4. To adjust the working pressure, turn in the pressure-adjusting screw until the desired pressure registers on the gauge. The first time you light the torch it may be necessary to adjust the pressure slightly.

3. The pressure-adjusting screw has two flat-bottom grooves on which the lettered settings "A", "B", and "C" are marked at intervals of two turns. These settings serve the same purpose as a working-pressure gauge. Letter "A" represents the point at which pressure begins to flow. Letters "B" and "C" represent approximate settings of 5 and 10 lb. per sq. in.

4. Since the distance from one lettered setting to the next is two full turns (approximately 5 lbs.) pressure settings between the letters are easy to determine. A full turn past "B" would give a setting of approximately 7-1/2 lb. per sq. in. A half turn past "C" would give a setting of approximately 11-1/4 lbs., etc.

5. When the desired working pressure is obtained for a particular operation, you may leave the pressure-adjusting screw at that setting as long as you are using the same appliance. If an adjustment becomes necessary because of small changes in operating conditions (such as changing of tips), it may be made by a slight turn of the pressure-adjusting screw. If desired, a working-pressure gauge (Part No. 527Y15) may be installed in one-gauge regulators, in place of the 1/8-in. pipe plug.

NOTE For R-411 Only: If the regulator is to be out of use for a few days or more, leave the pressure-adjusting screw turned in enough to move the valve seat off the seating surface of the body. A quarter turn beyond the "A" setting is generally sufficient.

(See other side for Maintenance Instructions)

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Be sure this information reaches the operator. You can get extra copies through your supplier.
II. Maintenance Instructions

Improperly repaired apparatus may be hazardous. For all replacements or repairs other than those described below, the regulator should be sent to the nearest Linde Company apparatus repair station or your Linde Distributor. (Your PREST-O-LITE dealer will be glad to forward the regulator for you.)

A. Replacing the Valve Seat
1. Using a 1/8-in. socket key, remove the socket-type screw from the inlet nipple. Be careful not to lose the valve closing spring; it will pop out when the screw is removed. The valve seat will fall out in your hand when the regulator is inverted.

2. When reassembling, hold the regulator at an angle so that the valve seat will slide into place. Replace the spring and screw in the nipple. Care should be used in starting the screw into the nipple so as not to cross the threads.

3. Attach the regulator to the tank, and screw the pressure-adjusting screw out as far as it will go. With pressure in the regulator, test for valve leakage by placing a film of soapy water over the regulator outlet.

B. Replacing the Diaphragm
1. Insert two pieces of 1/4-in. drill rod in the vent holes of the regulator cap, and use them as hand-les for unscrewing the cap. Remove the spring washer, spring, diaphragm ring, and diaphragm.

2. To reassemble, first detach the regulator body from the tank valve. Holding the body with the gauge face upward, replace the diaphragm, diaphragm ring spring, and spring washer. Screw on the regulator cap, and tighten it with your hand.

3. Attach the regulator to the tank, making sure that the nut is tight. Insert drill rod in the vent holes of the regulator cap as before, and further tighten cap.

4. Block off the regulator outlet with your thumb and adjust the pressure-adjusting screw to "C" position. Using soapy water, test for leakage between the regulator cap and regulator body. Test the diaphragm for leakage by placing a film of soapy water over the two vent holes in the regulator cap.

C. Replacing the Filter
The filter is located within the socket-type screw in the regulator inlet nipple. To replace it you must replace the screw (see section A-1). Clogging of the filter is indicated by a no-reading or a very sluggish climb on the gauge.

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