



IMPORTANT:

Safety And Operating Instructions For Click Regulators for Non-corrosive Calibration Gas Applications

CAUTION:

**NOT FOR USE WITH OXYGEN OR CORROSIVE GASES
PLEASE READ CAREFULLY**

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE BY ANYONE WHO MAY USE THIS APPARATUS.

IMPORTANT SAFETY INSTRUCTIONS:

READ AND UNDERSTAND ALL THE SAFETY AND OPERATING INSTRUCTIONS CONTAINED IN THIS BOOKLET. IF YOU DO NOT UNDERSTAND THESE INSTRUCTIONS, OR HAVE ANY QUESTIONS, CONTACT YOUR SUPERVISOR OR DEALER BEFORE ATTEMPTING TO USE THIS APPARATUS.

FAILURE TO FOLLOW ALL THE INSTRUCTIONS MAY RESULT IN FIRE, PROPERTY DAMAGE, AND/OR INJURY TO THE OPERATOR.

1. USE IN STRICT ACCORDANCE WITH THESE INSTRUCTIONS DO NOT attempt to operate this apparatus unless you are trained in its proper use or are under competent supervision.
2. USE NO OIL or grease or any other petroleum-based or flammable substance on equipment!
3. OPEN CYLINDER VALVE SLOWLY!
4. DO NOT store equipment or use at temperatures of less than -20°F nor more than 120°F.
5. DO NOT USE THE REGULATOR IF OIL OR GREASE IS PRESENT OR IF DAMAGE IS EVIDENT!
6. Take the regulator to a qualified repair facility for cleaning and/or repairing. Inspect the regulator inlet filter in the connection and verify that it is clean. If it appears dirty, take it to a qualified repair facility for replacement.
7. Inspect the cylinder valve and regulator thoroughly for dust, oil, and grease. Wipe dusty parts with a damp lint-free cloth. DO NOT USE THE CYLINDER IF OIL OR GREASE IS PRESENT! Inform your gas supplier of this condition immediately.
8. Clean the external surfaces of the regulator with a damp cloth. If more cleaning is required, return the regulator to your dealer. DO NOT SUBMERSE THE REGULATOR IN WATER!
9. NEVER alter the regulator in any way.
10. Inspect compressed gas cylinder valves for leaks before putting them into service. If a leak is found around the cylinder valve stem, close the valve, place the cylinder outdoors in a safe area and inform your gas supplier immediately.
11. Secure compressed gas cylinder to a wall, post or in a cylinder cart with valves up. DO NOT allow cylinders to tip and fall. Never allow the temperature of the cylinder contents to exceed 120°F. DO NOT store cylinders near sources of heat or flame.
12. NO SMOKING – Remove matches, cigarettes, lighters, lighter fluids and any other smoking materials from the area. Remove other highly flammable materials from the area.
13. Verify that the person installing or using the compressed gas cylinder, regulator, and other apparatus has clean hands that are free of hand lotions, hair spray, or any other similar products
14. Keep compressed gas cylinder valve closed at all times when the cylinder is not in use.
15. When not attached to a compressed gas cylinder, store the regulator in its original container in a clean protected storage area free from grease, oils, dirt, lint or other sources of contamination.

CONNECTING THE REGULATOR TO A CYLINDER

1. Chain or secure the cylinder to a wall, stand or cart; remove the protective dust cover from the cylinder valve.
2. With the valve outlet facing away from you and anyone else, purge the cylinder valve of foreign materials by slightly opening and closing it quickly. See your gas supplier for more detailed information.
3. If the regulator has a yoke type inlet connection, verify that the valve gasket is in place on the regulator yoke connection. Place the two pins on the regulator yoke into the matching holes on the cylinder valve. Confirm that the pointed end of the T-handle fits into the small round "dent" or "impression" on the opposite side of the valve. Hand-tighten the T-handle. Do not use a wrench.

If the regulator has a threaded connection, install the nut and nipple on the cylinder valve and tighten with a proper fitting wrench.

PRESSURIZING THE REGULATOR

1. Turn the control knob to the "0" or "OFF" position..
2. Stand so that the cylinder valve is between you and the regulator.

WARNING: NEVER stand in front or behind a regulator when opening the cylinder valve. Always stand so that the cylinder is between you and the regulator. OPEN THE CYLINDER-VALVE SLOWLY.

3. Slowly and carefully turn the cylinder valve COUNTER CLOCKWISE until you see the pointer on the contents gauge begin to move. Wait about ten (10) seconds and turn the cylinder valve fully open.

REGULATOR LEAK TESTING

NOTE: Test for leaks before putting the system into operation.

1. Connect the regulator to the cylinder as described in section "CONNECTING THE REGULATOR TO A CYLINDER",
2. Pressurize the regulator as described in section "PRESSURIZING THE REGULATOR", CLOSE THE CYLINDER VALVE.
 - a. If the gauge reading decreases, a leak exists somewhere in the system;
 - b. Check the regulator-to-cylinder connection and re-tighten the fitting;
 - c. Check the regulator outlet device connection and re-tighten;
 - d. Repeat steps 1 and 2. If the cylinder contents gauge reading still decreases, DO NOT use the regulator.
 - e. Return the regulator to your dealer for proper repair.

USING THE REGULATOR & FLOW ADJUSTMENTS

WARNING: IF, AT ANY TIME THE REGULATOR, CYLINDER OR OTHER APPARATUS DOES NOT OPERATE IN ITS USUAL OR NORMAL MANNER, STOP USING THE APPARATUS AND NOTIFY YOUR DEALER IMMEDIATELY.

1. After leak testing the system, pressurize the regulator as described in section "PRESSURIZING THE REGULATOR."
2. Attach the appropriate outlet to the regulator's outlet connection.
3. Turn the regulator adjusting knob in the "INCREASE" direction until the desired flow rate reading is achieved, read setting in the dial window.

CLOSING THE REGULATOR

1. When you have finished using the equipment, close the system in the following manner:
 - a. Close the cylinder valve.
 - b. Allow the gas to flow until all gauges read zero.

REMOVING THE REGULATOR FROM A CYLINDER

WARNING: NEVER attempt to remove a regulator from a cylinder if the pressure gauge shows pressure! DO NOT attempt to move the cylinder unless the regulator has been removed and the available cylinder cap, as appropriate, is in place.

1. Close the cylinder valve.
2. Relieve the regulator and downstream apparatus of all pressure as described in "CLOSING THE REGULATOR." The gauge indicates no pressure when all pressure is drained from the apparatus.
3. Remove the regulator from the cylinder by loosening the T-handle or removing the inlet nut until it is disengaged from the cylinder valve. Be sure to support the regulator during removal.
4. When not attached to a cylinder, store the regulator in its original container in a clean protected storage area free from grease, oils, dirt, lint or other sources of contamination.

WARRANTY

LIMITED WARRANTY: This product is warranted to be free of defects in workmanship or material for a period of one (1) year after initial sale. The use of any product with replacement parts or accessories, which are not manufactured or distributed by the manufacturer and which may affect product safety or performance, shall render this warranty and all other warranties, whether expressed or implied, null and void.

The manufacturer shall, upon notification thereof and substantiation that the product has been stored, maintained and operated in accordance with the manufacturer's recommendations and standard industry practice, correct such defects by suitable repair or replacement at its own expense. Such warranty is for internal components only.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY WARRANTY OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR TITLE AND AGAINST PATENT INFRINGEMENT. Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of the manufacturer to the Purchaser with respect to, or arising out of this product, whether based on contract, negligence, strict tort or otherwise.

LIMITATION OF LIABILITY: The manufacturer shall not under any circumstances be liable for special or consequential damages, such as, but not limited to, damage or loss of other property or equipment, loss of profit or revenue, cost of capital, cost of purchased or replacement goods, or claims of customers of Purchaser for service interruption. Any property damage or personal injury resulting from this product, which contains replacement parts or accessories that affect the safety or performance of such product, shall be the responsibility of the Purchaser and the Supplier of such replacement parts or accessories and not the responsibility of the manufacturer. The remedies of the Purchaser set forth therein are exclusive, and the liability of the manufacturer with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacturer, sale delivery, resale, or use of any goods covered by or furnished by the manufacture whether arising out of contract, negligence, strict tort or under any warranty, or otherwise, shall not, except as expressly provide herein, exceed the price of the goods upon which such liability is based.



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