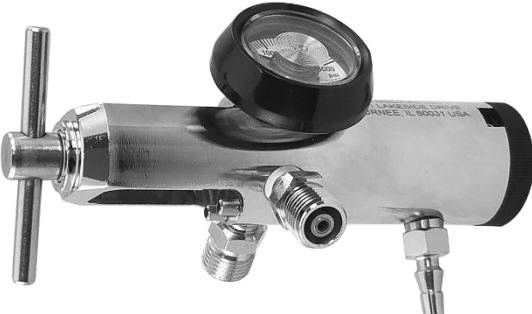


INSTRUCTIONS FOR USE



GAS REGULATORS

CLICK STYLE AND MINI CLICK STYLE



Rx Only

GRXX-YYYZW-X(Y)(Z)





Basic matrix shown. Consult the Ohio Medical website for full matrix or contact your Ohio Medical representative. The product package label contains your product identifier and description.

IMPORTANT: SAFETY INSTRUCTIONS

This manual provides you with important information about the Gas Regulator and should be read carefully to ensure the safe and proper use of this product.

Read and understand all the safety and operating instructions contained in this booklet before using this product.

If you do not understand these instructions, or have any questions, contact your supervisor, dealer or the manufacturer before attempting to use the apparatus.

WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury		
ATTENTION	Indicates a potentially hazardous situation, which if not avoided, could result in minor or moderate injury		
CAUTION	Indicates a potentially hazardous situation, which if not avoided, could result in damage to the device or other property		
	Consult operating manual	SN	Serial Number
	Use no oil	REF	Catalog Number (Device Identifier)
Rx Only	Caution: Federal (USA) Law restricts this device to sale by or on the order of a licensed healthcare provider		

RECEIVING INSPECTION

Remove product from package and inspect for damage. Verify that the model received is in working order. If product is damaged or incorrect, do not use. Contact your dealer, equipment provider or manufacturer.

ATTENTION: It is very important to allow product to remain in original packaging for 24 hours to acclimatize to room temperature before use.

USER RESPONSIBILITY

WARNING: Service of this device should only be performed by properly trained individuals.

This product performs as explained in this manual. This holds true as long as the assembly, use and maintenance are properly followed according to our instructions. Periodic review of this device is recommended. If any damage or defects are present, the product should not be used. This includes parts that may have been altered, contaminated, worn or missing. If any of the above are noted, immediate repair/replacement is required. If this device is subject to improper maintenance, repair, use and/or abuse leading to malfunction of the device, replacement is the sole responsibility of the user.

WARNING: DO NOT attempt to operate this device unless you are properly trained in its use or are supervised by someone educated on the proper use of the apparatus (REF. CGA Pamphlet G-4 "Oxygen").

WARNING: DO NOT use this device on patients who have stopped breathing without using proper resuscitation equipment.

TO MINIMIZE THE RISK OF EXPLOSION OR FIRE:

- Make sure that the person installing or using the cylinder, Gas Regulator and other oxygen apparatus has clean hands that are free of hand lotions, petroleum-based product, hair spray or any other similar products.
- Inspect the cylinder valve and Gas Regulator thoroughly for dust, oil and grease. DO NOT USE THE CYLINDER IF OIL OR GREASE OR ANY OTHER PETROLEUM-BASED FLAMMABLE SUBSTANCE IS PRESENT. Inform your gas supplier of this condition immediately.
- DO NOT allow Oxygen or Oxygen equipment to be exposed to fire, heat, sparks, electrical switches or other possible sources of ignition. DO NOT store or use oxygen equipment at temperatures of less than 0°F (-17°C) or more than 120°F (48°C).
- NO SMOKING – Remove matches, cigarettes, lighters and lighter fluids from the patient and from the oxygen therapy area before administering oxygen. Remove other flammable materials from the area.
- DO NOT allow cylinders to tip or fall. Never allow the temperature of the cylinder contents to exceed 120°F (48°C). DO NOT store cylinders near sources of heat or flame.

INTENDED USE

The Amvex Click Style Gas Regulator is used to control the gas pressure of medical compressed gas accurately under the direction of a healthcare professional. The Gas Regulators are available for Nut and Nipple, Yoke style CGA and Bullnose fittings. The Amvex Click Style Gas Regulators are available in a variety of flow rates from 0-4, 0-8, 0-15, 0-25 L/min.

SPECIFICATIONS

Gas Regulator Description

1. Yoke style (used on small D and E size cylinders). This connection must have a sealing washer.
2. Nut and Nipple style. There is no sealing washer used with this connection. Tighten this fitting to the cylinder valve with a wrench.

Flow Range	Accuracy
0 - 1 L/min	+/- 20% from 0-1 L/min
1.5 - 25 L/min	+/- 10% above 1 L/min

Inlet pressure max 3000 PSI maximum. Preset 50 PSI +/-10 PSI

OPERATING INSTRUCTIONS

Inspect the gas cylinder valve for leaks before putting it 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.

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. Keep this cover and reinstall it on the cylinder valve if the Gas Regulator is removed and the cylinder is to be used again.
2. Purge the cylinder valve of foreign materials by opening and closing it.
3. a. If the Gas Regulator has a yoke type inlet connection, be sure that sealing washer is in place on the Gas Regulator yoke connection. Place the two pins on the Gas Regulator yoke into the matching holes on the cylinder valve. Be sure that the pointed end of regulator screws fits into the small round recess on the side of the gas cylinder valve. Hand tighten the T-handle.
b. If the Gas Regulator has a CGA 540 connection, install the inlet nut on the cylinder valve and tighten with a wrench.
c. If the Gas Regulator has a Bullnose or DIN inlet nut 477 connection, install the inlet nut on the cylinder valve and hand tighten.

ATTENTION: Sealing washers should be checked for damage or contamination before each use. If either is visible, replace immediately. It is recommended that a new seal be used each time the cylinder is changed.

ATTENTION: Fittings attached to auxiliary ports are factory set to ensure proper flow. If user attaches additional fittings to the auxiliary port, care must be taken to ensure factory setting is maintained, by holding factory fittings in place with a wrench to keep it from rotating. Flow should be verified whenever changes are made.

Setup For Use

1. Be sure the Gas Regulator is in the "OFF" position by rotating the knob counterclockwise to the "0" position.
2. Stand so that the cylinder valve is between you and the Gas Regulator.

WARNING: Never stand in front or behind a Gas Regulator when opening the cylinder valve. Always stand so that the cylinder is between you and the Gas Regulator.

3. Open the cylinder valve very SLOWLY, about one full turn counterclockwise.
4. If you detect a hissing sound, there is a leak in the system. Turn the cylinder off and turn the Gas Regulator on. This will relieve any built-up pressure. Try tightening the Gas Regulator to the cylinder and opening the cylinder again. If this does not help, shut the system down again and contact a service representative.
5. Adjust the flow rate setting by turning the knob clockwise until the desired setting shows through the window.

WARNING: NEVER try to remove the Gas Regulator unless the cylinder is off and pressure has been relieved.

WARNING: If at any time the Gas Regulator, cylinder or other apparatus does not operate in its usual or normal manner, stop using the apparatus and notify your dealer immediately.

WARNING: There is no flow between increments.

ATTENTION: Flow rates are not accurate when a back-pressure of more than 2 PSIG exists downstream of the Gas Regulator.

Closing The Regulator

1. When you have finished using oxygen, close the system by turning the cylinder valve clockwise to the "OFF" position.

CAUTION: Oxygen will continue to flow from the outlet orifice assembly until the cylinder valve is closed (Reference CGA Pamphlet P-14, "Accident Prevention in Oxygen Rich and Oxygen Deficient Atmospheres"). It is very important to always close the cylinder valve when not in use.

Removing The Regulator From A Cylinder

1. Close the cylinder valve.
2. Wait for the oxygen to flow out of the Gas Regulator, then turn the knob to the "OFF" position.
3. Remove the Gas Regulator from the cylinder by loosening the T-handle or removing the inlet nut.
4. When not attached to a cylinder, store the Gas Regulator in its original container in a clean protected area free from grease, oil and other contamination.
5. Ohio Medical recommends replacing the sealing washer on Yoke style inlet connection when the Gas Regulator is mounted to a different cylinder.

CLEANING INSTRUCTIONS

Clean the external surfaces of the Gas Regulator with a damp cloth. If more cleaning is required, return the Gas Regulator to your dealer.

CAUTION: DO NOT submerge the Gas Regulator in any form of liquid. This will cause damage and void any warranty on the product.

TROUBLESHOOTING

Contact your dealer or the technical support department at Ohio Medical for assistance if the Gas Regulator does not function.

PREVENTATIVE MAINTENANCE

Inspect the product before and after use for any damage and ease of operation. Test product by following the operating instructions and verify that they meet the specifications located in this manual. To test the flow accuracy, you will need another flowmeter.

ATTENTION: This regulator is equipped with a relief valve. If you hear a hissing or popping sound coming from the regulator, close the cylinder valve or gas inlet and contact your dealer. The regulator relief valve is not designed to protect any downstream device or apparatus.

CAUTION: Disconnect Flowmeter from gas cylinder BEFORE SERVICING.

WARRANTY

Ohio Medical, LLC (the Company) warrants its Medical Secondary Equipment to be free from defects in material and workmanship for a period of Five (5) years from the date of shipment. Within the first Twelve (12) months from date of shipment the Company will repair or replace any part which is proven to be defective at the Company's cost. After the first Twelve (12) months, the Company will send the parts to the customer free of charge, but the shipping and installation will be borne by the Customer. This warranty is valid only when the product has been properly installed according to the Company's specifications used in a normal manner and serviced according to factory recommendations. It does not cover failures due to damage occurring in shipments or failures resulting from accidents, misuse, abuse, neglect, mishandling, alteration, misapplication or damage that may be attributable to acts of God. The Company DOES NOT HONOR VERBAL STATEMENTS CONCERNING THE WARRANTY. The distributor and/or dealer are not sanctioned to create verbal warranties about the product described in this agreement. Any statements will not be honored or be made part of the agreement of sale. This document is the final, complete and exclusive terms of the agreement. THIS WARRANTY IS EXCLUSIVE AND REPLACES ALL OTHER WARRANTIES. The Company shall not, under any circumstances, be liable for incidental or consequential damages including, but not limited to, profit loss, loss of sales or injuries to person(s) or property. Correction of non-compliances as noted above will result in completion of all liabilities of the Company whether based on agreement, neglect or otherwise. The Company reserves the right to stop manufacturing any product or change materials, designs or specifications without notice. All claims for warranty must first be approved by the Ohio Medical's Customer Service Department:(customerservice@ohiomedical.com or 866.549.6446). A valid Return Materials Authorization (RMA) number must be obtained from Ohio Medical prior to commencement of any warranty claim.

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