



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK



ISO 45001:2018 OHSMS



AIAA ISO 45001:2018 OHSMS CERTIFIED COMPANY



SY- O2 COMPONENTS

Delivery Device	Flow Rate	Inspired Fraction*
Oronasal mask (no reservoir bag)	10 lpm	≤ 0.5–0.6 (50%–60%)*
Nonrebreather mask	10-15 lpm	≤ 0.8 (80%)**
Bag valve mask	15 lpm	≤ 0.9–0.95 (90%–95%)
Demand valve	N/A	≤ 0.9–0.95 (90%–95%)

* May vary with respiratory rate

** Less variation with changes in respiratory rate

† Delivery fractions vary with the equipment and techniques used. This table summarizes various oxygen-delivery systems and potential values of inspired oxygen with their use.



WARNING

- Use of DAN Oxygen Equipment requires appropriate oxygen provider training
- Misuse of this equipment may result in further serious injury or death
- Avoid using this equipment without proper training

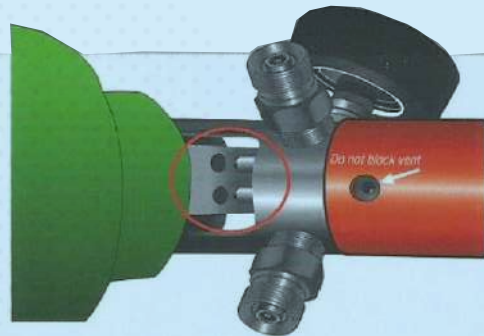
Contact DAN for information on oxygen training



SY- O2 COMPONENTS

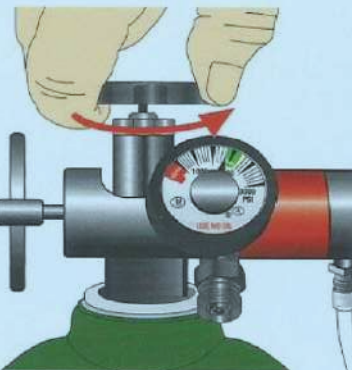
O2 Regulator

1. Place bottle in up-right position
2. Check for washer placement on regulator
3. Slide regulator down from the top of the valve and align the two pins to match holes on valve
4. Slowly screw T-handle until regulator is snug on valve.



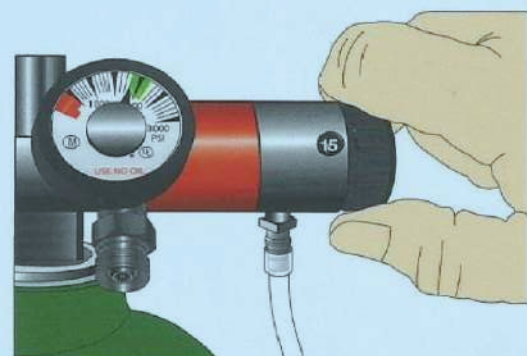
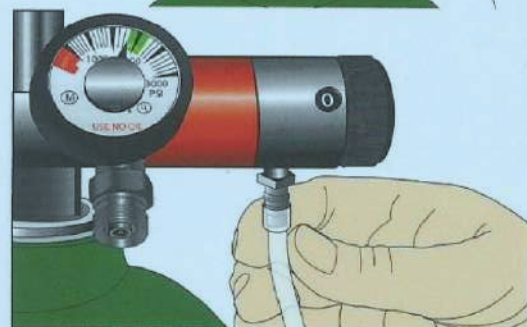
Demand Valve and Manually Triggered Ventilator

1. Screw hose to one of the DISS threaded outlets on the regulator
2. Attach demand valve or MTV to other end of hose
3. Attached pocket mask to regulator
4. Attached Wheel wrench to top of valve
5. Slowly open valve of oxygen tank and listen for gas release
6. If hissing is present, turn off valve and check hoses and washer
7. Slowly open valve again
8. Test function by inhaling from mask and exhale away from mask
9. Place mask on patient's face and secure with elastic straps to maintain proper seal



Non-rebreather Mask

1. Remove non-rebreather mask from packaging
2. Stretch out clear tubing
3. Attach end of oxygen tubing to barb on the underside of the regulator
4. Attached Wheel wrench to top of valve
5. Slowly open valve of oxygen tank and listen for gas release
6. If hissing is present, turn off valve and check hoses and washer
7. Slowly open valve again
8. Slowly turn the valve on by turning the constant flow controller until it reads 10-15 lpm
9. Inflate the reservoir back so that it is full
10. Place mask on patient's face to breath from and secure proper seal
11. Adjust flow up or down according to the patient's need



NOTE: All hose connections are hand-tightened: No Wrenches



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SY- ALLIED OXYGEN PRESSURE REGULATOR

Allied Oxygen Pressure Regulator

Description

The new Allied series of Oxygen regulators offers the added safety of an all brass Oxygen flow path. A large durable aluminum knob makes the flow adjustment easy. The Allied Oxygen Regulator is designed to provide regulated pressure (40-60 psi) and flow (125 LPM minimum). In addition, constant flow capability is supplied by means of an integral constant flow controller with a control knob which allows quick selection of a variety of rates ranging from .5 to 25 LPM. A barbed constant flow outlet permits attachment of a disposable mask, cannula or bag mask device. All three outlets mentioned above may be operated simultaneously. The pressure for Allied regulators is pre-set at the factory. Each regulator has an internal safety relief valve port, that opens if the outlet pressure exceeds 75-125 PSI.

Specifications:

SUPPLY PRESSURE: 400 to 2200 PSI	FLOW CAPACITY: High Flow Outlets: 125 LPM minimum Constant Flow Outlet: 0, .5, 1, 2, 4, 6, 8, 10, 12, 15, 20, 25 LPM	MATERIAL: BODY: Brass KNOB: Anodized Aluminum OUTLETS: Nickel Plated Brass
OUTLET PRESSURE: High Flow Outlets: 40 to 60 PSI at 2200 PSI	OPERATING TEMPERATURE: -30°F to 125°F	OUTLET FITTING: Constant Flow Outlet: 1/4" barb
PRESSURE GAUGE: Bourdon Tube Style Low Profile with Protective Cover	STORAGE TEMPERATURE: -40°F to 160°F	FILTER: 20 micron sintered bronze

All specifications are nominal and subject to change without notice.



MODEL NO.	# OF CHECK VALVES	OUTLET	CONSTANT FLOW LPM	CONNECTION
32-29-2500	0	BARB	0-25	CGA870
32-29-2550	2	BARB	0-25	CGA870





SY- ALLIED OXYGEN PRESSURE REGULATOR

Installation/Operation

Please read the entire instruction manual, including important safety information on the preceding page, prior to operating equipment. The following sequence should be adopted each time the Oxygen Pressure Regulator is connected to a gas source:

WARNING: The regulator and the cylinder/valve post must be kept clean and free of hydrocarbons and other contamination.

1. Turn cylinder valve in a safe direction before opening the valve. Remove all dirt and debris from cylinder valve by "cracking" the cylinder prior to attaching the pressure regulator.
2. Turn the constant flow selector valve to the "OFF" position.
3. When mounting on a "Type K" medical gas valve, make sure that the **gasket is properly positioned** on the inlet stem to prevent oxygen leakage.
4. Tighten the "T" handle assembly by hand only. The use of tools may result in damage to the unit. If the gasket still leaks after the "T" handle assembly has been tightened by hand, install a new gasket. (If leakage persists, refer to Periodic Inspection and Maintenance section.)

CAUTION: Read carefully **before** opening cylinder valve. Connect oxygen pressure hose with auxiliary equipment attached to the high flow outlets, and be certain high flow outlets are plugged when not in use. This will prevent 50 psi from being improperly released from the regulator.

5. **WARNING: Open the cylinder valve S-L-O-W-L-Y.** After the initial S-L-O-W opening, the valve should be opened fully.
6. Examine cylinder pressure gauge. This gauge can be used to indicate cylinder contents, since the pressure is proportional to the amount of remaining oxygen. A portable cylinder is essentially empty when the pressure has fallen to 500 psi. Make certain there is enough oxygen in the cylinder for your needs.
7. Select the appropriate oxygen flow by rotating the black flow control knob clockwise to the desired flow rate.
8. Cover all high-flow outlets on the regulator with a protective cap when not in use to prevent dirt or debris (that may damage auxiliary equipment) from collecting in the outlets.

CAUTION: Verify that cylinder valve is in the closed position (fully clockwise) prior to disconnecting the hose assembly or removing the regulator from the oxygen cylinder.

Periodic Inspection and Maintenance

Oxygen Pressure Regulators should be tested periodically to ensure proper performance. The frequency of testing should be established according to usage, but it should be performed at least every two months.

Leak Test:

1. Check yoke gasket for cracks or breakage and replace when necessary.

CAUTION: Do not use two yoke gaskets when attaching the regulator to the cylinder. A partially metal yoke washer is the recommended gasket to use.

2. Check placement of the threaded stem. In the event the threaded stem retainer prevents the gasket from seating directly against the regulator subassembly, it should be adjusted. To tighten, screw the threaded stem retainer down until it bottoms out.
3. Mount the regulator on a cylinder per the Installation/ Operation Instructions. To test the regulator for leakage, plug the outlets, turn the constant flow knob to "OFF" and turn on the cylinder valve.
4. Apply leak detector solution to the gauge, gasket, constant flow outlet and all fittings. Tighten fittings as required to eliminate all external leaks.
5. Close the cylinder valve. The pressure indicated on the pressure gauge should not decay more than 100 psi within a 1.5 minute period (approximately 10cc/min.). If the regulator leaks more than is allowed, return the unit to a Life Support Products Inc. approved repair facility.

Replacement of Filter

1. Hold the regulator with the inlet port pointing down so that any trapped particles will fall out, and remove the filter.
2. Using a tool or piece of metal tubing that will fit the rim of the filter, insert the new filter into the inlet port. Press down until the filter will go no farther.

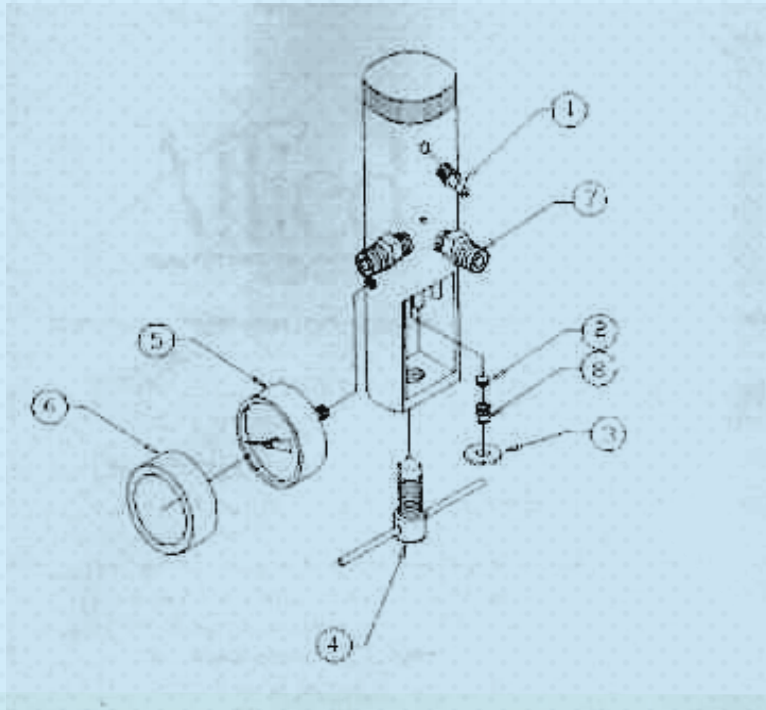
WARNING: Disassembly, assembly and testing of the Pressure Regulator should be performed by experienced personnel only. The work area should be free of hydrocarbon residues (grease, oil, dirt) because of the danger of spontaneous combustion when the residues are exposed to gaseous oxygen.

Service

Allied Healthcare Products, Inc. recommends that the Oxygen Pressure Regulator be sent to an authorized LSP service every two years for overhaul and cleaning.



SY- ALLIED OXYGEN PRESSURE REGULATOR



WARNING
Use only as directed. Improper usage or unauthorized modification of this product may result in user or patient injury.

Replacement Parts List:

	P/N	Description	Qty. Per Kit
1.	L270007	Barbed Fitting	3
2.	L270002	Filter	10
3.	86060	Seal Washer	50
4.	32-90-5006	"T" Handle	3
5.	L270003	Gauge	1
6.	L270004	Gauge Cover	3
7.	12-80-3011	Check Valve	2
8.	L270008	Inlet Stem	3

270596 Annual Maintenance Kit, CGA 870

NOTE: Consult factory or authorized service center for regulator repair.

LIMITED THREE (3) YEAR WARRANTY

AHP warrants this product to be free from defects in material and workmanship for a period of three (3) years from the date of manufacture. This Warranty is expressly conditioned on compliance with all inspection and preventative maintenance requirements as set by applicable government agencies and as specified by AHP.

This Warranty is extended by AHP only to the first purchaser of the product from either AHP or from an authorized AHP distributor.

AHP'S OBLIGATIONS AND PURCHASER'S REMEDIES UNDER THIS WARRANTY ARE LIMITED AS FOLLOWS: In the event of a defect, malfunction, or failure to conform to this Warranty, purchaser shall return this product to AHP, with shipping charges prepaid, within a reasonable time after discovery of such defect, malfunction or failure to conform. AHP shall repair or replace (at AHP's option) this product if it is defective, malfunctions or fails to conform to this Warranty, and shall return it to purchaser with shipping charges prepaid and without any additional charges due to costs of repair or replacement.

In the event the product returned by purchaser is not defective, has not malfunctioned and does conform to this Warranty, AHP shall not be obligated to repair or replace the product and shall not be obligated for shipping charges for return of the product to the purchaser.

AHP shall in no event be liable for any consequential damages, nor for loss, damages or expenses directly or indirectly arising from the use of this product.

Disclaimer of Other Warranties

THIS WARRANTY IS IN PLACE AND IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A SPECIFIC PURPOSE, BY OPERATION OF LAW OR OTHERWISE.

This Warranty does not apply to malfunction or damage resulting from accident, alteration, misuse of the product, improper preventative maintenance, storage at extreme temperatures or extreme environments beyond design limits, or, where appropriate, improper use of the product by untrained persons. This Warranty does not apply to any plastic or rubber components since they can be affected adversely by undue exposures to heat, sun, water, ozone, or to other deteriorative elements.

AHP has not authorized any other firm or person to make any representations concerning this product nor to assume on AHP's behalf any liability in any way connected with the sale or use of this product.

This Warranty becomes void immediately should any repairs of, or alterations to this warranted product be made without authorization by AHP.

SYNERGY INFRASTRUCTURE





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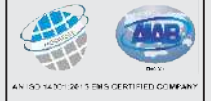
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SYNERGY TEAMWORK MAKES THE DREAM WORK

