Emergency oxygen for scuba diving injuries

O2 components

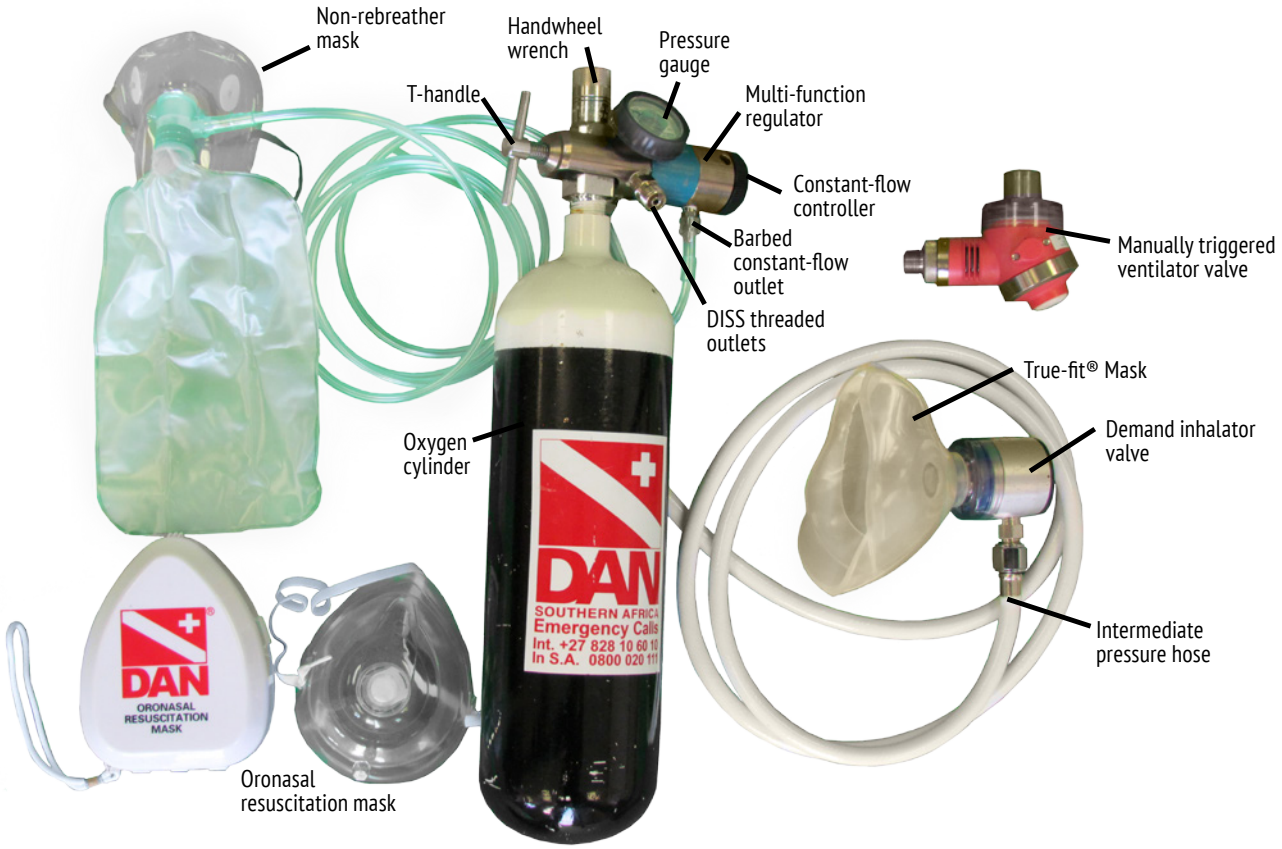
Delivery Device	Flow Rate	Inspired Fraction+
Oronasal mask (no reservoir bag)	10 lpm	⩽ 0.5–0.6 (50%–60%)*
Non-rebreather mask	10-15 lpm	⩽ 0.8 (80%)**
Bag valve mask	15 lpm	⩽ 0.9–0.95 (90%–95%)
Demand valve	N/A	⩽ 0.9–0.95 (90%–95%)

** May vary with respiratory rate*
*** Less variation with changes in respiratory rate*
+ Delivery fractions vary with the equipment and techniques used. This table summarises 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-SA for information on oxygen training



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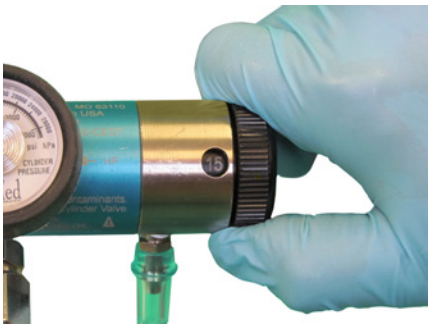
Emergency oxygen for scuba diving injuries

O2 Kit Assembly

02 REGULATOR

1. Place cylinder in up-right position.
2. Check for the O_2 washer placement for the pin-indexing component.
3. Slide regulator down from the top of the valve and align the two pins to match holes on valve.
4. Slowly tighten T-handle until regulator is snug on valve.

DEMAND VALVE AND MANUALLY TRIGGERED VENTILATOR



1. Attach hose to one of the DISS threaded outlets on the regulator.
2. Attach demand valve or MTV to other end of hose.
3. Attach pocket mask to regulator.
4. Attached handwheel wrench to top of valve.
5. Slowly open valve of O_2 cylinder and listen for gas leaks.
6. If a gas leak is detected, turn off valve and check hoses and O_2 washer.
7. Slowly open valve again.
8. Test function by inhaling from mask and exhale away from mask.
9. Place mask on the injured diver's face to breathe on demand. Ensure and maintain a proper seal.

NON-REBREATHER MASK

1. Remove non-rebreather mask from packaging.
2. Stretch out clear tubing.
3. Attach end of oxygen tubing to continuous flow outlet barb on the underside of the regulator.
4. Attach handwheel wrench to top of valve.
5. Slowly open valve of O_2 cylinder and listen for gas leaks.
6. If gas leaks are detected, turn off valve and check hoses and O_2 washer.
7. Slowly open valve again.
8. Activate O_2 flow by turning the constant-flow controller until it reads 10-15 lpm.
9. Allow the reservoir bag to fill.
10. Place mask on injured diver's face to breathe on demand. Ensure and maintain a proper seal.
11. Adjust the flow to keep the reservoir bag 1/3 full when the injured diver inhales.

NOTE: All hose connections are hand tightened. No wrenches are used.

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