

## EMERGENCY OXYGEN KIT DEMAND VALVE TEST INSTRUCTIONS

**CAUTION:** Please be careful when handling this test kit. Dropping or hitting the pressure gauge will alter the calibration.

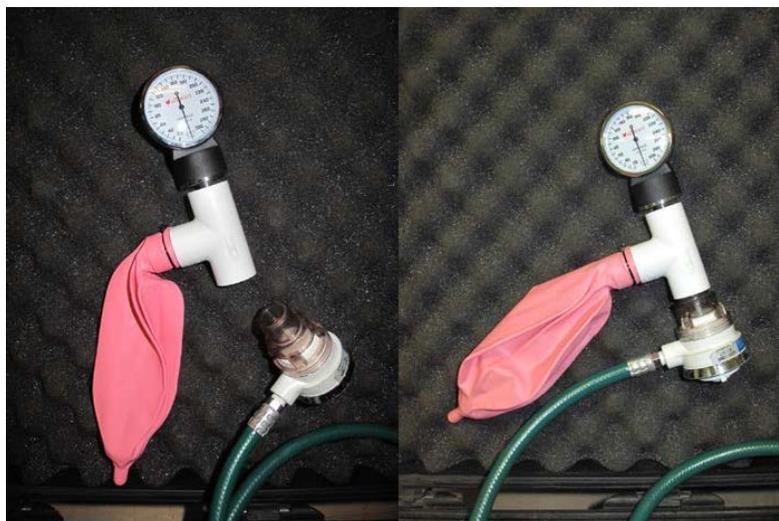
**Included:** One Sphygmomanometer pressure gauge  
PVC 'Tee' w/ attached balloon

The Demand Valve test kit comes fully assembled and ready to use. Please do not disassemble or replace/exchange parts without contacting NDC.

The purpose of this test is to verify the proper operation of your positive pressure demand valve (demand valve) in the NOAA issued diver emergency oxygen kit. Please perform this pressure test every three (3) months or in accordance with manufactures guidelines.

### Preparation:

1. Attach your oxygen 1st stage regulator onto a full or partially full oxygen cylinder.
2. Slowly open the oxygen supply all the way then back 1/4 turn. The system should pressurize and have no audible leaks. Remove the face mask from the demand valve, if attached.
3. Depress the positive pressure button on the demand valve. A flow of oxygen should be apparent from the valve and there should be no whistle sound from either the 1st stage regulator or demand valve. Oxygen flow should cease immediately when the button is released.
4. Place the demand valve fitting into/onto the open end of the 'Tee'. If it does not fit, hold the valve as flush as possible to the opening.



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### Test:

1. Depress the positive pressure button fully and hold down. The balloon will inflate and the pressure gauge needle will rise. Continue to hold down the pressure button while taking note of the pressure on the gauge: it should read between **32-48 mm Hg**.
2. If the needle bounces while depressing the positive pressure button, release the button and try again. Depress the button slower while keeping the balloon from swinging as it inflates. Attempt to find a flow rate of oxygen where the needle may settle enough to obtain a pressure reading.
3. Release the positive pressure button. The balloon should deflate immediately; if it does not, check the demand valve exhalation port for improper alignment or blockage.

### Post-test:

1. Maintain records of this test at the unit for verification during the DUSA inspection. Monthly inspections and quarterly pressure tests can be recorded on NOAA Form 57-03-84 Emergency O2 Kit Inventory, Maintenance and Order Form.
2. If your demand valve fails the test by registering a pressure below or above 32-48 mm Hg, contact [DMO@noaa.gov](mailto:DMO@noaa.gov) for repair information.

NOAA Diving Center  
Attn: Diving Medical Officer O2 kit  
7600 Sand Point Way NE, Bldg 8  
Seattle, WA. 98115

3. Please do not disassemble or replace parts on the Demand Valve test kit. Using different parts other than those originally on the kit will contribute to inaccurate pressure readings. If you need to replace anything on the kit, please contact the NOAA Diving Center 206-526-6632 and ask to speak with the DMO.