

## EMERGENCY OXYGEN KIT DEMAND VALVE TEST RESULTS

Perform a pressure test on each emergency oxygen kit demand valve every three (3) months. Record results below. Retain test results at the diving unit for three (3) years. Send regulator and demand valve in for service every two (2) years.

### PRESSURE VALVE TEST #1

|                                 |                                      |                                 |
|---------------------------------|--------------------------------------|---------------------------------|
| OXYGEN KIT #                    | DIVING UNIT NAME                     | TEST DATE                       |
| DEMAND VALVE MANUFACTURER       |                                      | DEMAND VALVE SERIAL NUMBER      |
| PERSON PERFORMING PRESSURE TEST | TEST GAUGE READING<br><br>_____ mmHg | <input type="checkbox"/> PASSED |
| UNIT DIVING SUPERVISOR          |                                      | <input type="checkbox"/> FAILED |

### PRESSURE VALVE TEST #2

|                                 |                                      |                                 |
|---------------------------------|--------------------------------------|---------------------------------|
| OXYGEN KIT #                    | DIVING UNIT NAME                     | TEST DATE                       |
| DEMAND VALVE MANUFACTURER       |                                      | DEMAND VALVE SERIAL NUMBER      |
| PERSON PERFORMING PRESSURE TEST | TEST GAUGE READING<br><br>_____ mmHg | <input type="checkbox"/> PASSED |
| UNIT DIVING SUPERVISOR          |                                      | <input type="checkbox"/> FAILED |

### PRESSURE VALVE TEST #3

|                                 |                                      |                                 |
|---------------------------------|--------------------------------------|---------------------------------|
| OXYGEN KIT #                    | DIVING UNIT NAME                     | TEST DATE                       |
| DEMAND VALVE MANUFACTURER       |                                      | DEMAND VALVE SERIAL NUMBER      |
| PERSON PERFORMING PRESSURE TEST | TEST GAUGE READING<br><br>_____ mmHg | <input type="checkbox"/> PASSED |
| UNIT DIVING SUPERVISOR          |                                      | <input type="checkbox"/> FAILED |

### PRESSURE VALVE TEST #4

|                                 |                                      |                                 |
|---------------------------------|--------------------------------------|---------------------------------|
| OXYGEN KIT #                    | DIVING UNIT NAME                     | TEST DATE                       |
| DEMAND VALVE MANUFACTURER       |                                      | DEMAND VALVE SERIAL NUMBER      |
| PERSON PERFORMING PRESSURE TEST | TEST GAUGE READING<br><br>_____ mmHg | <input type="checkbox"/> PASSED |
| UNIT DIVING SUPERVISOR          |                                      | <input type="checkbox"/> FAILED |

## EMERGENCY OXYGEN KIT DEMAND VALVE TEST INSTRUCTIONS

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

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

The Elder 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 Elder valve in the NOAA issued diver emergency oxygen kit. Please perform this pressure test on an annual basis.

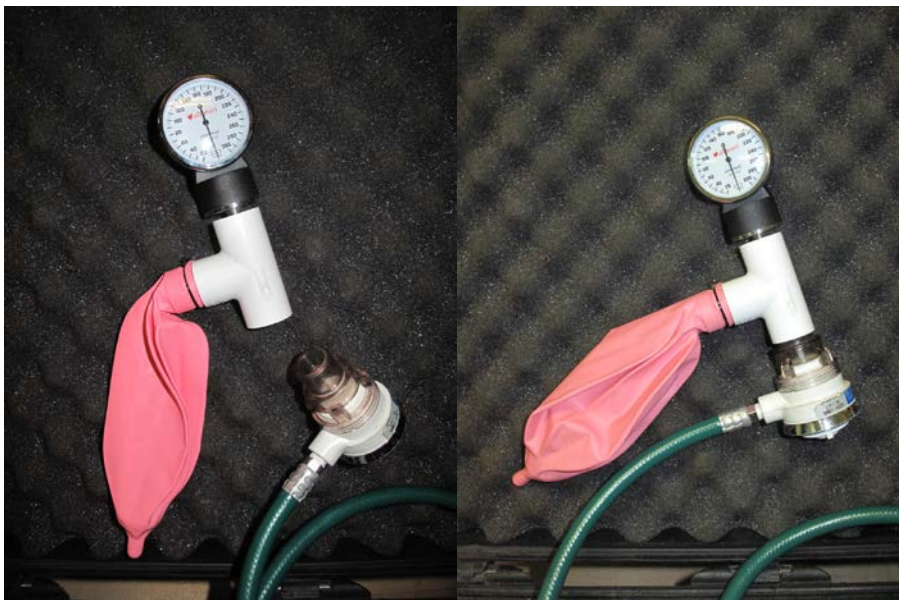
### A) Preparation:

1. Attach your oxygen 1<sup>st</sup> 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 Elder valve, if attached.
3. Depress the positive pressure button on the Elder valve. A flow of oxygen should be apparent from the valve and there should be no whistle sound from either the 1<sup>st</sup> stage regulator or Elder valve. Oxygen flow should cease immediately when the button is released.



### B) Test:

1. Place the Elder 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.



## EMERGENCY OXYGEN KIT DEMAND VALVE TEST INSTRUCTIONS

2. 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.

3. 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.

4. Release the positive pressure button. The balloon should deflate immediately; if it does not, check the Elder valve exhalation port for improper alignment or blockage.



### C) Post-test:

1. **Annually:** E-mail, mail, or fax the test results to:

[Nick.Jeremiah@noaa.gov](mailto:Nick.Jeremiah@noaa.gov)

NOAA Diving Center  
Nick Jeremiah  
7600 Sand Point Way NE, Bldg 8  
Seattle, Wa. 98115

206-526-6934  
206-529-2757 (fax)

2. If your Elder valve fails the test by registering a pressure below or above 32-48 mm Hg, contact NDC for repair information.

3. Please do not disassemble or replace parts on the Elder Valve test kit. If you need to replace anything for any reason, please contact NDC to make sure repairs are done correctly. Using different parts other than those originally on the kit will contribute to inaccurate pressure readings.