

## Pressure Test Record

(for implodable items to be carried aboard ALVIN)

Certification of implodable volumes to be used with ALVIN requires a submergence pressure test to **10,200 psi** for 10 cycles; held 10 minutes at greatest pressure for cycles 1 through 9, held 1 hour at greatest pressure for cycle 10. An alternative procedure involves substituting a different maximum test pressure in the same cycling sequence according to the following equation:

$$\text{Test pressure (psi)} = 1.5 \times (\text{maximum pressure (psi) expected during applicable dives}),$$

where maximum pressure = maximum water depth (meters) x 1.487 (psi/meter)

Damage shall be cause for test failure. The following data shall be recorded, with a separate record for each item tested.

Test Date: \_\_\_\_\_  
Description of Item Tested (Make/Model): \_\_\_\_\_  
Serial Number (or other unique ID): \_\_\_\_\_  
Tested For/Item Owned By: \_\_\_\_\_  
Test Pressure (PSI): \_\_\_\_\_

### Test Equipment

	Gauge 1	Gauge 2
Gauge Make:	_____	_____
Gauge Model:	_____	_____
Serial Number:	_____	_____
Calibration Date:	_____	_____
Next Cal Due Date:	_____	_____
Gauge Pressure Range:	_____	_____

*Note: Test pressure shall be within middle two-thirds of gauge pressure range*

Test Medium Temperature: \_\_\_\_\_

### Test Data

Cycle No.	Pressure	Start Time (Full Pressure)	Stop Time (Full Pressure)
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____
9	_____	_____	_____
10	_____	_____	_____

Results and Remarks:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Test Operator

Name (print): \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Facility Used: \_\_\_\_\_