

# ***PYETT & COMPANY***

**Marine Consultants, Compass Adjusters & Surveyors Since 1976**

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ABN 11 001 368 261

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## **COMPASS ADJUSTERS DECLARATION**

**AMSA Marine Order 21 and SOLAS 5/19.**

### **Compass Safe Distance Test**

#### **Spare Air Breathing Sets PEEBD9393 and PEEBD1206**

At the request of Mr. David Manzi of Posiedon NZ P/L., I the undersigned licensed compass adjuster have tested two Spare Air Breathing Sets to determine if they had any influence on magnetic compass deviations, and determine if there was any distance at which the sets caused magnetic deviation to the compass.

The test was conducted in accordance with instructions supplied by Posiedon NZ, ie ASD-STAN prEN 4856:2017 (E) Paragraph 6.3 .

The master compass used was a full-sized marine Sestrel binnacle compass, which was tested for deflection +/- 10 degrees, and was found to return to the zero reading after each test. Therefore the test compass was in good condition and reading correctly. See photos 1 to 3, and 14-16 below which show the compass and non-magnetic support for the bottle sets, and the deflection tests.

The first bottle set was 9393, and it was tested in two positions, transverse and fore/aft, both with NIL deflection of the test compass. Photos 6 to 9 below.

The second bottle set was 1206, again tested in the two position, and again NIL deflection in either alignment. Photos 10 to 13 below.

A final closing deflection test of the master compass again saw it return to 360 with no errors.

Conclusion:

Both of the Spare Air breathing sets returned NIL compass deflection and I do not consider that there is a "compass safe distance" in either case. Neither set had any effect on the compass.

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**Dated at: Sydney the 15 day of March 2018.**



**David M. Pyett BSc., Dip Law, FAIN.,**

**M.ACAA. Master Mariner, Marine Surveyor, Licensed Compass Adjuster AL00015.**

**Technical, Operational, Industrial, Para-Legal and Navigational Consultants to the Maritime Industry**  
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Photographs



1. Compass and test stand.



2: Initial heading 360.



3, 4: First deflection test + 10 degrees



5: Return to 360 after deflection.



6, 7: First bottle test, 9393 unit, nil deflection.



8, 9: First bottle, 9393 realigned, nil deflection.



10, 11: Second bottle test, 1206, nil deflection.



12, 13: Second bottle 1206 rotated, nil deflection.



14, 15: Closing deflection test, -10 degrees.



16: Compass returned to 360.