



# CERTIFICATION TEST REPORT

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REPORT NO. 12490-1  
IMANNA JOB NO. 12490  
CUSTOMER P.O. NO. Verbal

MANUFACTURER Forespar®

CONTRACT N/A

DATE July 27, 1993

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PAGE REPORT

CERTIFICATION TEST REPORT  
12490-1 OF  
USCG FIRE TEST ON  
¾" MANUAL SHUT-OFF FUEL VALVE  
FOR

1. SPECIMEN FORES MANUFACTURING  
The test specimen is a ¾" manually operated fuel supply shut-off valve. The valve is made of Marelon® synthetic material. The valve has a hose barb for ¾" hose on each end.

2. MODEL NUMBER  
Forespar®, R C Marine ¾" , Marelon®, Part No. 934143.

3. REQUIREMENTS  
The requirements of this effort are to perform a 2½ minute fire test in accordance with the USCG requirements utilizing the Fire Test Chamber method. The test is to determine the acceptability of the unit for use in a permanently installed gasoline fuel system in a marine application.

4. PROCEDURES  
The procedure used in performing this test program is the USCG Fuel Systems Standard Test Procedure, specifically Lab Examination No. 14, Titled Fire Test of Fuel System Components.

The procedure utilizes a Fire Test Chamber, and requires that the temperature within 1" of the component hit 1200°F at some point in time within the 2½ minute fire.

STATE OF FLORIDA  
COUNTY OF BREVARD

ROBERT L. WHITE

being duly sworn,  
deposes and says: The information contained in this report is the result of complete and carefully conducted tests and is to the best of his knowledge true and correct in all respects.

SUBSCRIBER and sworn to before me this 27 day of July, 19 93

Notary Public in and for the County of Brevard, State of Florida.

My Commission expires May 3 1997

Imanna shall have no liability for damages of any kind to person or property, including special or consequential damages, resulting from Imanna's providing the services covered by this report.

IMANNA LABORATORY, INC.

TEST BY

ROBERT L. WHITE

PROJ. ENGINEER

5. TESTING SEQUENCE

- A. Receiving Inspection
- B. Fire Test
- C. Post Fire Inspection

6. RESULTS

The results of the tests indicate that the component does meet the requirements of the USCG regulation for fire resistance in its current design configuration. The valve showed no signs of fuel leakage following the fire test, when the unit was leak tested with a 36" head pressure of gasoline.

6.1 RECEIVING INSPECTION

The units which were received appeared to be complete in all respects. Each valve was fitted with a ¼" hose barb fitting on the inlet and the outlet. The valves were 90° ball valves, with the flow direction marked on the handle. The end fittings were installed using Stainless Steel through-bolts with Lock nuts.

6.2 FIRE TEST

The unit was placed in a Fire test chamber and tested in accordance with the USCG Procedure. During the test period, the temperature increased to a maximum of 1275°F, but remained at approximately 850°F to 980°F for most of the time.

6.3 POST FIRE INSPECTION

The post fire inspection and leak check indicated that no leak was present on the test article.

7. OBSERVATIONS AND COMMENTS

The results presented herein apply only to the test specimen, as prepared and as tested. Test equipment used in the performance of this test was calibrated to standards traceable to the N.I.S.T.