ISO 4679:2023-06 (E)

Ships and marine technology - Hydraulic performance tests for waterjet propulsion system

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms, definitions, symbols and abbreviated terms **1**

4 Measurement and acceptance criteria **3**
4.1 General 3
4.2 Measurement range 4
4.3 Stable operating conditions of measuring systems 4
4.4 Evaluation of flow and head 5
4.5 Evaluation of efficiency or power 5

5 Measurement uncertainty **6**
5.1 General 6
5.2 Statistical evaluation of overall measurement uncertainty 6
5.2.1 Evaluation of the random uncertainty 6
5.2.2 Evaluation of the systematic uncertainty 6
5.2.3 Overall uncertainty 7
5.2.4 Determination of overall uncertainty of efficiency 7
5.3 Conversion 8
5.3.1 Conversion to the guarantee conditions 8
5.3.2 Translation of the test results 8

6 Test method **9**
6.1 Test condition 9
6.1.1 Test location 9
6.1.2 Test personnel 9
6.1.3 Test date 9
6.1.4 Test outline 9
6.1.5 Environment and water quality 9
6.2 Test device 10
6.3 Test items 10
6.3.1 General 10
6.3.2 Performance test 10
6.3.3 NPSH test 11

7 Test report **11**

Annex A (informative) **Test report** **12**

Annex B (informative) **Working section of the test device** **15**

Bibliography **18**