DIN EN 15495:2008-02 (E)

Non Destructive testing - Acoustic emission - Examination of metallic pressure equipment during proof testing - Zone loc ation of AE sources

Contents

Page

Foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Personnel Qualifications 4

5 General 5
5.1 General 5
5.2 Application of load 5
5.3 Sensors 5
5.4 Zone location 5
5.5 Preliminary information 6
5.6 Written instruction requirements 6

6 Instrumentation 7

7 Testing 7
7.1 Pre-Test Measurements 7
7.1.1 General 7
7.1.2 Wave propagation 7
7.1.3 Determination of maximum allowed sensor spacing 8
7.2 Test steps 10
7.2.1 General Guidelines 10
7.2.2 In situ verification 10
7.2.3 Background Noise 10
7.2.4 Equipment Pressurisation 10

8 Interpretation of results 11
8.1 General 11
8.2 Test stop criteria 11
8.2.1 Test stop during the initial proof loading 11
8.2.2 Test stop during subsequent loadings 11
8.3 AE zone grading criteria 11

9 Documentation 12

Bibliography 13