METALLIST TÖÖSTUSTORUSTIK
OSA 5: KONTROLL JA KATSETAMINE

Metallic industrial piping
Part 5: Inspection and testing

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13480-5:2016 sisaldab Euroopa standardi EN 13480-5:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 13480-5:2016 consists of the English text of the European standard EN 13480-5:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 27.06.2012.	Date of Availability of the European standard is 27.06.2012.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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This European Standard was approved by CEN on 8 May 2012.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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Contents

Page

Foreword ... 4

1 Scope ... 6

2 Normative references ... 6

3 Terms and definitions ... 7

4 Symbols and abbreviations ... 7

5 Determination of inspection and testing requirements ... 8
5.1 General ... 8
5.2 Classification of piping ... 8

6 Design review ... 8

7 In process inspection and testing ... 11
7.1 General ... 11
7.2 Materials and formed pressure retaining parts ... 11
7.2.1 General ... 11
7.2.2 Verification of material ... 11
7.2.3 Verification of formed pressure retaining parts ... 12
7.2.4 Non-destructive testing of formed parts ... 12
7.2.5 Destructive testing of formed parts ... 12
7.3 Welding ... 13
7.3.1 Review of welding documents ... 13
7.3.2 Inspection before welding ... 13
7.3.3 Testing and inspection during welding ... 13
7.3.4 Inspection after welding ... 14
7.3.5 Inspection of built up pipe ends ... 14
7.4 Heat treatment ... 14

8 Non-destructive testing of welds ... 14
8.1 Application of NDT ... 14
8.1.1 General ... 14
8.1.2 Examination of weld quality by sample inspection ... 15
8.1.3 Imperfections revealed by sample inspection ... 15
8.2 Circumferential butt, branch, fillet and seal welds ... 17
8.2.1 Extent of testing ... 17
8.2.2 Dissimilar metal joints ... 19
8.2.3 Transverse cracks ... 19
8.3 Longitudinal welds ... 19
8.4 Testing methods ... 19
8.4.1 General ... 19
8.4.2 Quality level ... 19
8.4.3 Personnel qualification ... 23
8.4.4 Selection of NDT methods and testing techniques ... 24
8.5 Reports ... 24
8.6 Weld repairs ... 24

9 Final assessment and documentation ... 25
9.1 General ... 25
9.2 Final inspection ... 25
9.2.1 General ... 25
9.2.2 Visual inspection before the proof test ... 25
9.2.3 Visual inspection after the proof test ... 25

9.2.4 Review of the manufacturing documents 26
9.3 Proof test 26
9.3.1 General 26
9.3.2 Hydrostatic pressure test 26
9.3.3 Pneumatic pressure test 29
9.3.4 Other tests 30
9.3.5 Documentation of the proof test 30
9.4 Documentation 31
9.4.1 Final documentation package 31
9.4.2 Design and manufacturing documentation package 32
9.4.3 Operating instructions 32
9.4.4 Documentation for the purchaser 32
10 Declaration 32
Annex A (informative) Declaration of compliance with EN 13480 33
Annex Y (informative) History of EN 13480-5 34
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2014/68/EU aimed to be covered 35
Bibliography 35a

Foreword

This document (EN 13480-5:2012) has been prepared by Technical Committee CEN/TC 267 “Industrial piping and pipelines”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2012, and conflicting national standards shall be withdrawn at the latest by December 2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This European Standard EN 13480 for metallic industrial piping consists of eight interdependent and not dissociable Parts which are:

— *Part 1: General;*

— *Part 2: Materials;*

— *Part 3: Design and calculation;*

— *Part 4: Fabrication and installation;*

— *Part 5: Inspection and testing;*

— *Part 6: Additional requirements for buried piping;*

— CEN/TR 13480-7, *Guidance on the use of conformity assessment procedures*;

— *Part 8: Additional requirements for aluminium and aluminium alloy piping.*

Although these Parts may be obtained separately, it should be recognised that the Parts are inter-dependant. As such the manufacture of metallic industrial piping requires the application of all the relevant Parts in order for the requirements of the Standard to be satisfactorily fulfilled.

This European Standard will be maintained by a Maintenance MHD working group whose scope of working is limited to corrections and interpretations related to EN 13480.

The contact to submit queries can be found at http://www.unm.fr (en13480@unm.fr). A form for submitting questions can be downloaded from the link to the MHD website. After subject experts have agreed an answer, the answer will be communicated to the questioner. Corrected pages will be given specific issue number and issued by CEN according to CEN Rules. Interpretation sheets will be posted on the website of the MHD.

This document supersedes EN 13480-5:2002+A1:2011. This new edition incorporates the Amendments/the corrigenda which have been approved previously by CEN members, and the corrected pages up to Issue 17 without any further technical change. Annex Y provides details of significant technical changes between this European Standard and the previous edition.

Amendments to this new edition may be issued from time to time and then used immediately as alternatives to rules contained herein. It is intended to deliver a new Issue of EN 13480:2012 each year, consolidating these Amendments and including other identified corrections. Issue 5 (2016-07) includes the corrected pages listed in Annex Y.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This Part of this European Standard specifies the requirements for inspection and testing of industrial piping as defined in EN 13480-1:2012 to be performed on individual spools or piping systems, including supports, designed in accordance with EN 13480-3:2012 and EN 13480-6:2012 (if applicable), and fabricated and installed in accordance with EN 13480-4:2012.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13480-1:2012, *Metallic industrial piping — Part 1: General*

EN 13480-2:2012, *Metallic industrial piping — Part 2: Materials*

EN 13480-3:2012, *Metallic industrial piping — Part 3: Design and calculation*

EN 13480-4:2012, *Metallic industrial piping — Part 4: Fabrication and installation*

EN 13480-6:2012, *Metallic industrial piping — Part 6: Additional requirements for buried piping*

EN 14917:2009+A1:2012, *Metal bellows expansion joints for pressure applications*

EN ISO 5817:2007, *Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections (ISO 5817.2003, corrected version:2005, including Technical Corrigendum 1:2006)*

EN ISO 9712:2012, *Non-destructive testing — Qualification and certification of NDT personnel (ISO 9712:2012)*

EN ISO 17635:2010, *Non-destructive testing of welds — General rules for metallic materials (ISO 17635:2010)*

EN ISO 17640:2010, *Non-destructive testing of welds — Ultrasonic testing — Techniques, testing levels, and assessment (ISO 17640:2010)*