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Metallic industrial piping - Part 5: Inspection and testing

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/17

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EUROPEAN STANDARD
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English Version

Metallic industrial piping - Part 5: Inspection and testing

Tuyauteries industrielles métalliques - Partie 5 :
Inspection et contrôle

Metallische industrielle Rohrleitungen - Teil 5: Prüfung

This European Standard was approved by CEN on 21 June 2017.

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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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

	Page
European 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	7
5.1 General.....	7
5.2 Classification of piping.....	7
6 Design review	7
7 In-process inspection and testing	8
7.1 General.....	8
7.2 Materials and formed pressure retaining parts.....	8
7.2.1 General.....	8
7.2.2 Verification of material.....	8
7.2.3 Verification of formed pressure retaining parts	8
7.2.4 Non-destructive testing of formed parts	8
7.2.5 Destructive testing of formed parts.....	12
7.3 Welding.....	12
7.3.1 Review of welding documents.....	12
7.3.2 Inspection before welding	12
7.3.3 Testing and inspection during welding.....	13
7.3.4 Inspection after welding.....	13
7.3.5 Inspection of built up pipe ends	13
7.4 Heat treatment.....	13
8 Non-destructive testing of welds.....	13
8.1 Application of NDT.....	13
8.1.1 General.....	13
8.1.2 Examination of weld quality by sample inspection	14
8.1.3 Imperfections revealed by sample inspection.....	14
8.2 Circumferential butt, branch, fillet and seal welds.....	15
8.2.1 Extent of testing	15
8.2.2 Dissimilar metal joints	17
8.2.3 Transverse cracks	17
8.3 Longitudinal welds	17
8.4 Testing methods	17
8.4.1 General.....	17
8.4.2 Quality level	17
8.4.3 Personnel qualification.....	18
8.4.4 Selection of NDT methods and testing techniques.....	18
8.4.5 Testing techniques and acceptance levels	19
8.5 Reports.....	19

8.6	Weld repairs	19
9	Final assessment and documentation	19
9.1	General	19
9.2	Final inspection	19
9.2.1	General	19
9.2.2	Visual inspection before the proof test	19
9.2.3	Visual inspection after the proof test	20
9.2.4	Review of the manufacturing documents	20
9.3	Proof test	20
9.3.1	General	20
9.3.2	Hydrostatic pressure test	20
9.3.3	Pneumatic pressure test	23
9.3.4	Other tests	25
9.3.5	Documentation of the proof test	25
9.4	Documentation	25
9.4.1	Final documentation package	25
9.4.2	Design and manufacturing documentation package	27
9.4.3	Operating instructions	27
9.4.4	Documentation for the purchaser	27
10	Declaration	27
Annex A (informative)	Declaration of compliance with EN 13480	28
A.1	Declaration for design	28
A.2	Declaration for fabrication, installation and testing	29
A.3	Declaration for compliance for piping with EN 13480	30
Annex Y (informative)	History of EN 13480-5	31
Y.1	Differences between EN 13480-5:2012 and EN 13480-5:2017	31
Annex ZA (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 2014/68/EU aimed to be covered	33
Bibliography		34

European foreword

This document (EN 13480-5:2017) 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 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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 13480-5:2012. This new edition incorporates the Amendments which have been approved previously by CEN members, and the corrected pages up to Issue 5 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.

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, Serbia, 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 13480-1:2017 to be performed on individual spools or piping systems, including supports, designed in accordance with EN 13480-3:2017 and EN 13480-6:2017 (if applicable), and fabricated and installed in accordance with EN 13480-4:2017.

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 13480-1:2017, *Metallic industrial piping — Part 1: General*

EN 13480-2:2017, *Metallic industrial piping — Part 2: Materials*

EN 13480-3:2017, *Metallic industrial piping — Part 3: Design and calculation*

EN 13480-4:2017, *Metallic industrial piping — Part 4: Fabrication and installation*

EN 13480-6:2017, *Metallic industrial piping — Part 6: Additional requirements for buried piping*

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

EN ISO 5817:2014, *Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections (ISO 5817:2014)*

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

EN ISO 10893-5:2011, *Non-destructive testing of steel tubes — Part 5: Magnetic particle inspection of seamless and welded ferromagnetic steel tubes for the detection of surface imperfections (ISO 10893-5:2011)*

EN ISO 17635:2016, *Non-destructive testing of welds — General rules for metallic materials (ISO 17635:2016)*

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

ISO 3057:1998, *Non-destructive testing — Metallographic replica techniques of surface examination*

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