



SLOVENSKI STANDARD
SIST EN ISO 10380:2004

01-september-2004

Cevovod - Valovite kovinske cevi in cevni priključki (ISO 10380:2003)

Pipework - Corrugated metal hoses and hose assemblies (ISO 10380:2003)

Rohrleitungen - Gewellte Metallschläuche und Metallschlauchleitungen (ISO 10380:2003)

Tuyauteries - Tuyaux et tuyauteries métalliques flexibles onduleux (ISO 10380:2003)

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Ta slovenski standard je istoveten z: EN ISO 10380:2003

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ICS:

23.040.10 Železne in jeklene cevi Iron and steel pipes

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10380

February 2003

ICS 23.040.70

English version

Pipework - Corrugated metal hoses and hose assemblies (ISO 10380:2003)

Tuyauteries - Tuyaux et tuyauteries métalliques flexibles
onduleux (ISO 10380:2003)

Rohrleitungen - Gewellte Metallschläuche und
Metallschlauchleitungen (ISO 10380:2003)

This European Standard was approved by CEN on 9 January 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 10380:2003 (E)

CORRECTED 2003-03-26

Foreword

This document (EN ISO 10380:2003) has been prepared by Technical Committee ISO/TC 5 "Ferrous metal pipes and metallic fittings" in collaboration with Technical Committee CEN/TC 342 "Metal hoses, hose assemblies, bellows and expansion joints", the secretariat of which is held by UNI.

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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 10380:2003 has been approved by CEN as EN ISO 10380:2003 without any modifications.

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INTERNATIONAL
STANDARD

ISO
10380

Second edition
2003-02-01

**Pipework — Corrugated metal hoses and
hose assemblies**

Tuyauteries — Tuyaux et tuyauteries métalliques flexibles onduleux

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ISO 10380:2003(E)

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ISO 10380:2003(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 10380 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Subcommittee SC 11, *Flexible metallic hoses and expansion joints*.

This second edition cancels and replaces the first edition (ISO 10380:1994), which has been technically revised.

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Introduction

It was decided to produce an International Standard under the Vienna Agreement on technical cooperation between ISO and the European Committee for Standardization (CEN) in order to maintain one document. The opportunity was taken to re-format the document and to add additional information which was not available for the first edition of ISO 10380.

The major changes to the standard are

- introduction of an extra flexibility type;
- reduction in the average number of cycles before failure in the cyclic test;
- introduction of a cyclic test for hoses in the size range DN 125 to DN 300;
- introduction of nickel materials;
- increased requirement for information to be supplied by the purchaser;
- the temperature derating factors have been modified based on values in ISO 9328-5;
- introduction of the requirement for the provision of adequate user instructions;
- the addition of equivalent European standards including those for materials and the corresponding temperature derating factors which are given in Annex A4

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This International Standard is a base standard for hose and hose assemblies for general purposes. Other International Standards for specific applications are in preparation.

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Pipework — Corrugated metal hoses and hose assemblies

1 Scope

This International Standard specifies the requirements for the design, manufacture and testing of corrugated metal hoses and hose assemblies for general purposes.

It also specifies sizes from DN 4 to DN 300, pressures from PN 0,5 to PN 250, pressure derating factors for elevated temperatures, two methods of construction and three types of flexibility of hose assembly.

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.

ISO 6208, *Nickel and nickel alloy plate, sheet and strip*

ISO 7369, *Pipework — Metal hoses and hose assemblies — Vocabulary*

ISO 9328-5, *Steel plates and strips for pressure purposes — Technical delivery conditions — Part 5: Austenitic steels*

ISO 9723, *Nickel and nickel alloy bars*

ISO 9724, *Nickel and nickel alloy wire and drawing stock*

ISO 10806, *Pipework — Fittings for corrugated metallic hoses*

EN 287-1, *Approval testing of welders — Fusion welding — Part 1: Steels*

EN 288-1, *Specification and qualification of welding procedures for metallic materials — Part 1: General rules for fusion welding*

EN 10028-7, *Flat products made of steels for pressure purposes — Part 7: Stainless steels*

EN 10088-1, *Stainless steels — Part 1: List of stainless steels*

EN 13133, *Brazing — Brazer approval*

EN 13134, *Brazing — Procedure approval*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7369 apply.