Pipework - Corrugated metal hoses and Pipework hose assemblies

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 10380:2003 sisaldab Euroopa standardi EN ISO 10380:2003 ingliskeelset teksti.

Käesolev dokument on jõustatud 06.06.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 10380:2003 consists of the English text of the European standard EN ISO 10380:2003.

This document is endorsed on 06.06.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

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

Scope:

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

ICS 23.040.70

Võtmesõnad: bursti, corrosion resistance, corrugated, definitions, designations, dimensions, fittings, flexible, hose assemblies, hose connectors, materials specification, metal hoses, metal pipes, pipe fittings, pressure tests, specification (approval), specifications, testing

EN ISO 10380

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

February 2003

23.070.70

English version

Pipework

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

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

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

This European Standard was approved by CEN on 2003-01-09.

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

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, the Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, and the United Kingdo

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

Foreword

International Standard

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

which was prepared by ISO/TC 5 'Ferrous metal pipes and metallic fittings' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 342 'Metal hoses, hose assemblies, bellows and expansion joints', the Secretariat of which is held by UNI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by August 2003 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

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

Endorsement notice

The text of the International Standard ISO 10380: 2003 was approved by CEN as a European Standard without any modification.

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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 A.

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

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.

Normative references 2

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

288-1, Spe....
fusion welding

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\] 10088-1, Stainless steels — Part 1: List of stainless steels

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\] 13133, Brazing — Brazer approval

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\] 13134, Brazing — Procedure approval

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Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7369 apply. EN 288-1, Specification and qualification of welding procedures for metallic materials — Part 1: General rules