

Pipework — Corrugated metal hoses and hose assemblies

The European Standard EN ISO 10380:2003 has the status of a
British Standard

ICS 23.040.70

National foreword

This British Standard is the official English language version of EN ISO 10380:2003. It is identical with ISO 10380:2003. It partially supersedes BS 6501-1:1991 which contained Class C flexibility specification hoses in the 1991 edition which will be carried over into a revised edition.

The UK participation in its preparation was entrusted to Technical Committee PSE/12, Metal hose, hose assemblies, bellows and expansion joints, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii to v, a blank page, pages 1 to 16, an inside back cover and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments
14452 Corrigendum No. 1	11 April 2003	Correction to EN ISO foreword page

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 March 2003

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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.

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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.

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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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.

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.