



SLOVENSKI STANDARD
SIST EN ISO 1402:2000
01-december-2000

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Rubber and plastics hoses and hose assemblies - Hydrostatic testing (ISO 1402:1994)

Gummi- und Kunststoffschläuche und -Schlauchleitungen - Hydrostatische Prüfung (ISO 1402:1994)

iTeh STANDARD PREVIEW

Tuyaux et flexibles en caoutchouc et en plastique - Essais hydrostatiques (ISO 1402:1994)

[SIST EN ISO 1402:2000](https://standards.iteh.ai/catalog/standards/sist/8d2f59f2-3af6-4b06-8781-b98ca6029037/sist-en-iso-1402-2000)

Ta slovenski standard je istoveten z: **EN ISO 1402:1996**

ICS:

23.040.70 Gumene cevi in armature Hoses and hose assemblies

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en

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EUROPEAN STANDARD

EN ISO 1402

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1996

ICS 23.040.70

Descriptors: rubber products, plastics products, hoses, rubber hoses, plastics hoses, tests, hydrostatic tests, determination, dimensional stability

English version

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This European Standard was approved by CEN on 1996-02-26. 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 Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

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

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 45 "Rubber and rubber products" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 218 "Rubber and plastics hoses and hose assemblies", the secretariat of which is held by BSI.

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 February 1997, and conflicting national standards shall be withdrawn at the latest by February 1997.

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

Endorsement notice

The text of the International Standard ISO 1402:1994 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative)

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 4671	1984	Rubber and plastics hoses and hose assemblies - Methods of measurement of dimensions	EN 24671	1993

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INTERNATIONAL
STANDARD

ISO
1402

Third edition
1994-12-01

**Rubber and plastics hoses and hose
assemblies — Hydrostatic testing**

iTeh STANDARD PREVIEW

*Tuyaux et flexibles en caoutchouc et en plastique — Essais
hydrostatiques*
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Reference number
ISO 1402:1994(E)

ISO 1402:1994(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.

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.

International Standard ISO 1402 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Hoses (rubber and plastics)*.

This third edition cancels and replaces the second edition (ISO 1402:1984), which has been technically revised.

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International Organization for Standardization
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Rubber and plastics hoses and hose assemblies — Hydrostatic testing

1 Scope

This International Standard specifies methods for the hydrostatic testing of rubber and plastics hoses and hose assemblies, including methods for the determination of dimensional stability.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 471:—¹⁾ *Rubber — Times, temperatures and humidities for conditioning and testing.*

ISO 4671:1984, *Rubber and plastics hose and hose assemblies — Methods of measurement of dimensions.*

ISO 7751:1991, *Rubber and plastics hoses and hose assemblies — Ratios of proof and burst pressure to design working pressure.*

3 General

Unless otherwise specified, all tests shall be carried out at standard temperature (see ISO 471).

4 Apparatus

4.1 Pressure source, capable of applying pressure at the rate specified in 6.2.2, up to the required test pressure.

4.2 Calibrated pressure gauge or pressure transducers with digital readouts, chosen for each test so that the test pressure is between 15 % and 85 % of the full-scale reading.

In the interest of accuracy, calibrated pressure gauges or pressure transducers with digital readouts shall be checked at frequent intervals and the fitting of restrictors is recommended to minimize shock damage.

4.3 Sliding vernier callipers or micrometer, and measuring tape.

5 Test pieces

5.1 Hose assemblies

When hose assemblies are to be tested, the manufactured assembly length shall be used for the test.

5.2 Hoses

The hydrostatic pressure and burst tests shall be carried out on a hose test piece with a minimum free length, excluding end fittings and end reinforcements, of 600 mm when deformation is to be measured and 300 mm when it is not.

1) To be published. (Combination and revision of ISO 471:1983 and ISO 1826:1981)