Rubber and plastics hoses and hose assemblies - Ratios of proof and burst pressure to maximum working pressure (ISO 7751:2016)



#### EESTI STANDARDI EESSÕNA

#### NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 7751:2016 sisaldab Euroopa standardi EN ISO 7751:2016 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 7751:2016 consists of the English text of the European standard EN ISO 7751:2016.		
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.		
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 30.11.2016.	Date of Availability of the European standard is 30.11.2016.		
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.		

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### EUROPEAN STANDARD

## NORME EUROPÉENNE

#### **EUROPÄISCHE NORM**

November 2016

**EN ISO 7751** 

ICS 23.040.70

Supersedes EN ISO 7751:1997

#### **English Version**

# Rubber and plastics hoses and hose assemblies - Ratios of proof and burst pressure to maximum working pressure (ISO 7751:2016)

Tuyaux et flexibles en caoutchouc et en plastique - Rapports des pressions d'épreuve et de rupture à la pression maximale de service (ISO 7751:2016)

Gummi- und Kunststoffschläuche und schlauchleitungen - Verhältnisse von Prüf- und Berstdruck zum Betriebsdruck (ISO 7751:2016)

This European Standard was approved by CEN on 9 October 2016.

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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

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#### **European foreword**

This document (EN ISO 7751:2016) has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" in collaboration with 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 May 2017, and conflicting national standards shall be withdrawn at the latest by May 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 supersedes EN ISO 7751:1997.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

#### **Endorsement notice**

The text of ISO 7751:2016 has been approved by CEN as EN ISO 7751:2016 without any modification.

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: <a href="www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 1, *Rubber and plastics hoses and hose assemblies*.

This third edition cancels and replaces the second edition (ISO 7751:1991), which has been technically revised. It also incorporates the Amendment ISO 7751:1991/Amd.1:2011.

The main changes are as follows:

- the term "design working pressure" has been replaced by "maximum working pressure" throughout the text in accordance with ISO 7751:1991/Amd.1:2011;
- a new category (hoses for delivery of cement, concrete, plaster and grout) has been added.

## Rubber and plastics hoses and hose assemblies — Ratios of proof and burst pressure to maximum working pressure

#### 1 Scope

This document specifies ratios of proof pressure and minimum burst pressure to maximum working pressure for various categories of hose service.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1402, Rubber and plastics hoses and hose assemblies — Hydrostatic testing

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8330 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>
- ISO Online browsing platform: available at <a href="http://www.iso.org/obp">http://www.iso.org/obp</a>

#### 4 Proof pressure ratio

The methods and procedures to perform the proof tests are specified in ISO 1402.

The ratio of proof pressure to maximum working pressure shall, unless otherwise specified, in the relevant hose/hose assembly product standard, be in accordance with <u>Table 1</u>, which states the pressures for guidance only. When the hose product standard specifies different pressures, these pressures shall be used when testing the hoses.

#### 5 Minimum burst pressure ratio

The methods and procedures to perform the burst tests are specified in ISO 1402.

The ratio of minimum burst pressure to maximum working pressure shall, unless otherwise specified, in the relevant hose/hose assembly product standard, be in accordance with Table 1.