



SLOVENSKI STANDARD SIST EN ISO 4641:2009

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Rubber hoses and hose assemblies for water suction and discharge - Specification (ISO 4641:2005)

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Tuyaux et flexibles en caoutchouc pour aspiration et refoulement d'eau - Spécifications (ISO 4641:2005)
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Ta slovenski standard je istoveten z: EN ISO 4641:2008

ICS:

23.040.70 Gumene cevi in armature Hoses and hose assemblies

SIST EN ISO 4641:2009 en,fr

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EUROPEAN STANDARD

EN ISO 4641

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2008

ICS 23.040.70

Supersedes EN 24641:1993

English Version

Rubber hoses and hose assemblies for water suction and discharge - Specification (ISO 4641:2005)

Tuyaux et flexibles en caoutchouc pour aspiration et refoulement d'eau - Spécifications (ISO 4641:2005)

This European Standard was approved by CEN on 29 October 2008.

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

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

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Foreword

The text of ISO 4641:2005 has been prepared by Technical Committee ISO/TC 45 “Rubber and rubber products” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 4641:2008 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of an identical text or by endorsement, at the latest by May 2009, and conflicting national standards shall be withdrawn at the latest by May 2009.

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 24641:1993.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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Endorsement notice

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INTERNATIONAL STANDARD

**ISO
4641**

Third edition
2005-10-01

Rubber hoses and hose assemblies for water suction and discharge — Specification

*Tuyaux et flexibles en caoutchouc pour aspiration et refoulement
d'eau — Spécifications*

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Reference number
ISO 4641:2005(E)

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ISO 4641:2005(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 4641 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 4641:1991), which has been technically revised.

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Rubber hoses and hose assemblies for water suction and discharge — Specification

1 Scope

This International Standard specifies the minimum requirements for textile-reinforced, smooth-bore rubber water-suction and discharge hoses and hose assemblies.

Three types of hoses and hose assemblies are specified according to their operating duty requirements, i.e. their ambient and water temperature ranges:

- ambient temperatures: -25 °C to $+70\text{ °C}$;
- water temperatures during operation: 0 °C to $+70\text{ °C}$.

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 37, Rubber, vulcanized or thermoplastic — Determination of tensile stress-strain properties*
- ISO 188, Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*
- ISO 1307:1992, Rubber and plastics hoses for general-purpose industrial applications — Bore diameters and tolerances, and tolerances on length*
- ISO 1402, Rubber and plastics hoses and hose assemblies — Hydrostatic testing*
- ISO 1746, Rubber or plastics hoses and tubing — Bending tests*
- ISO 2393, Rubber test mixes — Preparation, mixing and vulcanization — Equipment and procedures*
- ISO 4671, Rubber and plastics hoses and hose assemblies — Methods of measurement of dimensions*
- ISO 4672:1997, Rubber and plastics hoses — Sub-ambient temperature flexibility tests*
- ISO 7233:1991, Rubber and plastics hoses and hose assemblies — Determination of suction resistance*
- ISO 7326:1991, Rubber and plastics hoses — Assessment of ozone resistance under static conditions*
- ISO 8033, Rubber and plastics hose — Determination of adhesion between components*
- ISO 8330, Rubber and plastics hoses and hose assemblies — Vocabulary*
- ISO 8331, Rubber and plastics hoses and hose assemblies — Guide to selection, storage, use and maintenance*