

Plastové hadice a hadice s koncovkami. Hadice vystužené textilom na hydraulické aplikácie. Špecifikácia (ISO 3949: 2009).

STN EN ISO 3949

63 5412

Plastics hoses and hose assemblies - Textile-reinforced types for hydraulic applications - Specification (ISO 3949:2009)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/15

Obsahuje: EN ISO 3949:2014, ISO 3949:2009

Oznámením tejto normy sa ruší STN EN 855 (63 5412) z januára 2001

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 3949

July 2014

ICS 23.100.40; 83.140.40

Supersedes EN 855:1996

English Version

Plastics hoses and hose assemblies - Textile-reinforced types for hydraulic applications - Specification (ISO 3949:2009)

Tuyaux et flexibles en plastique - Types hydrauliques avec armature textile - Spécifications (ISO 3949:2009)

Kunststoffschläuche und -schlauchleitungen -Textilverstärkte Typen für hydraulische Anwendungen -Spezifikationen (ISO 3949:2009)

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 3949:2014 (E)

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Foreword

The text of ISO 3949:2009 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 3949:2014 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of an identical text or by endorsement, at the latest by January 2015, and conflicting national standards shall be withdrawn at the latest by January 2015.

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Endorsement notice

The text of ISO 3949:2009 has been approved by CEN as EN ISO 3949:2014 without any modification.

INTERNATIONAL STANDARD

ISO 3949

Fourth edition 2009-09-01

Plastics hoses and hose assemblies — Textile-reinforced types for hydraulic applications — Specification

Tuyaux et flexibles en plastique — Types hydrauliques avec armature textile — Spécifications



ISO 3949:2009(E)

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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
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Published in Switzerland

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ISO 3949:2009(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.

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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.

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ISO 3949 was prepared by Technical Committee ISO/TC 45, Rubber and rubber products, Subcommittee SC 1, Hoses (rubber and plastics).

This fourth edition cancels and replaces the third edition (ISO 3949:2004), which has been technically revised.

Plastics hoses and hose assemblies — Textile-reinforced types for hydraulic applications — Specification

1 Scope

This International Standard specifies requirements for three types of textile-reinforced thermoplastics hose and hose assembly of nominal size from 3,2 to 25. Each type is divided into two classes dependent on electrical conductivity requirements. They are suitable for use with water-based hydraulic fluids HFC, HFAE, HFAS and HFB as defined in ISO 6743-4 at temperatures ranging from 0 °C to +60 °C and oil-based hydraulic fluids HH, HL, HM, HR and HV as defined in ISO 6743-4 at temperatures ranging from -40 °C to +100 °C;

This International Standard does not include requirements for end fittings. It is limited to the performance of hoses and hose assemblies.

NOTE Operating temperatures in excess of 100 °C may materially reduce the life of the hose.

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 1402, Rubber and plastics hoses and hose assemblies — Hydrostatic testing

ISO 1817, Rubber, vulcanized — Determination of the effect of liquids

ISO 4671, Rubber and plastics hoses and hose assemblies — Methods of measurement of the dimensions of hoses and the lengths of hose assemblies

ISO 4672:1997, Rubber and plastics hoses — Sub-ambient temperature flexibility tests

ISO 6743-4, Lubricants, industrial oils and related products (class L) — Classification — Part 4: Family H (Hydraulic systems)

ISO 6803, Rubber or plastics hoses and hose assemblies — Hydraulic-pressure impulse test without flexing

ISO 7326:2006, Rubber and plastics hoses — Assessment of ozone resistance under static conditions

ISO 8330, Rubber and plastics hoses and hose assemblies — Vocabulary

ISO 8331, Rubber and plastics hoses and hose assemblies — Guidelines for selection, storage, use and maintenance

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