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Connections for general use and fluid power - Ports and stud ends with ISO 261 threads with elastomeric or metal-to-metal sealing - Part 2: Stud ends with elastomeric sealing (type E)

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 9974-2:2000 sisaldab Euroopa standardi EN ISO 9974-2:2000 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 13.10.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 9974-2:2000 consists of the English text of the European standard EN ISO 9974-2:2000.</p> <p>This document is endorsed on 13.10.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This part of EN ISO 9974 specifies dimensions, performance requirements and test procedures for heavy-duty (S series) and light-duty (L series) stud ends with ISO 261 threads and the elastomeric sealing that is used with them. It also specifies the designation of these stud ends and their elastomeric sealing.</p>	<p>Scope: This part of EN ISO 9974 specifies dimensions, performance requirements and test procedures for heavy-duty (S series) and light-duty (L series) stud ends with ISO 261 threads and the elastomeric sealing that is used with them. It also specifies the designation of these stud ends and their elastomeric sealing.</p>
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ICS 23.100.60

Võtmesõnad:

English version

Connections for general use and fluid power
Ports and stud ends with ISO 261 threads with elastomeric or
metal-to-metal sealing

Part 2: Stud ends with elastomeric sealing (type E)
(ISO 9974-2 : 1996)

Raccordements pour applications
générales et transmissions hydrauliques
et pneumatiques – Orifices et
éléments mâles à filetage ISO 261 et
joint en élastomère ou étanchéité
métal sur métal – Partie 2: Eléments
mâles avec joint en élastomère
(type E) (ISO 9974-2 : 1996)

Leitungsanschlüsse für Fluidtechnik
und allgemeine Anwendung – Ein-
schraublöcher und Einschraubzapfen
mit Gewinde nach ISO 261 und
Elastomerdichtung oder metallener
Dichtkante – Teil 2: Einschraubzapfen
mit Elastomerdichtung (Typ E)
(ISO 9974-2 : 1996)

This European Standard was approved by CEN on 2000-04-08.

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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the 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

International Standard

ISO 9974-2 : 1996 Connections for general use and fluid power – Ports and stud ends with ISO 261 threads with elastomeric or metal-to-metal sealing – Part 2: Stud ends with elastomeric sealing (type E),

which was prepared by ISO/TC 5 'Ferrous metal pipes and metallic fittings' of the International Organization for Standardization, has been adopted by Technical Committee ECISS/TC 29 'Steel tubes and fittings for steel tubes', the Secretariat of which is held by UNI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by November 2000 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 9974-2 : 1996 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. In general applications, a fluid may be conveyed under pressure.

Components are connected through their threaded ports by stud ends on fluid conductor fittings to tubes and pipes or to hose fittings and hoses.

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1 Scope

This part of ISO 9974 specifies dimensions, performance requirements and test procedures for heavy-duty (S series) and light-duty (L series) stud ends with ISO 261 threads and the elastomeric sealing that is used with them. It also specifies the designation of these stud ends and their elastomeric sealing.

Heavy-duty (S series) stud ends with type E sealing in accordance with this part of ISO 9974 may be used at working pressures up to 63 MPa (630 bar¹⁾). Light-duty (L series) stud ends with type E sealing in accordance with this part of ISO 9974 may be used at working pressures up to 25 MPa (250 bar). The permissible working pressure depends upon the stud end size, materials, design, working conditions, application, etc.

For threaded ports and stud ends specified in new designs in hydraulic fluid power applications, only ISO 6149 is to be used. Threaded ports and stud ends in accordance with ISO 1179, ISO 9974 and ISO 11926 are not to be used for new designs in hydraulic fluid power applications.

Conformance to the dimensional information in this part of ISO 9974 does not guarantee rated performance. Each manufacturer should perform testing according to the specification contained in this part of ISO 9974 to assure that components comply with the performance ratings.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of

this part of ISO 9974. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9974 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 48:1994, *Rubber, vulcanized or thermoplastic — Determination of hardness (hardness between 10 IRHD and 100 IRHD)*.

ISO 261:—²⁾, *ISO general-purpose metric screw threads — General plan*.

ISO 3448:1992, *Industrial liquid lubricants — ISO viscosity classification*.

ISO 4759-1:1978, *Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters between 1,6 (inclusive) and 150 mm (inclusive) and product grades A, B and C*.

ISO 5598:1985, *Fluid power systems and components — Vocabulary*.

ISO 6508:1986, *Metallic materials — Hardness test — Rockwell test (scales A - B - C - D - E - F - G - H - K)*.

ISO 6803:1994, *Rubber or plastics hoses and hose assemblies — Hydraulic pressure impulse test without flexing*.

1) 1 bar = 0,1 MPa = 10⁵ Pa; 1 MPa = 1 N/mm²

2) To be published. (Revision of ISO 261:1973)

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