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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 3: Stud ends with metal-to-metal sealing (type B)**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 9974-3:2000 sisaldab Euroopa standardi EN ISO 9974-3:2000 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 9974-3:2000 consists of the English text of the European standard EN ISO 9974-3:2000.</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><b>Käsitlusala:</b> This part of EN ISO 9974 specifies dimensions, performance requirements and test procedures for heavy-duty (S series) and light-duty (L series) and extra-light-duty (LL series) stud ends with ISO 261 threads and the metal-to-metal sealing. These stud ends should not be used for leak-free hydraulic fluid power applications because they may leak if re-used.</p>	<p><b>Scope:</b> This part of EN ISO 9974 specifies dimensions, performance requirements and test procedures for heavy-duty (S series) and light-duty (L series) and extra-light-duty (LL series) stud ends with ISO 261 threads and the metal-to-metal sealing. These stud ends should not be used for leak-free hydraulic fluid power applications because they may leak if re-used.</p>
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ICS 23.100.60

Võtmesõnad:

ICS 23.100.60

**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 3: Stud ends with metal-to-metal sealing (type B)  
(ISO 9974-3 : 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 3: Eléments  
mâles avec étanchéité métal sur  
métal (type B) (ISO 9974-3 : 1996)

Leitungsanschlüsse für Fluidtechnik  
und allgemeine Anwendung – Ein-  
schraublöcher und Einschraubzapfen  
mit Gewinde nach ISO 261 und  
Elastomerdichtung oder metallener  
Dichtkante – Teil 3: Einschraubzapfen  
mit metallener Dichtkante (Typ B)  
(ISO 9974-3 : 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 9974-3 : 1996 Connections for general use and fluid power – Ports and stud ends with ISO 261 threads with elastomeric or metal-to-metal sealing – Part 3: Stud ends with metal-to-metal sealing (type B),

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 9974-3 : 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), light-duty (L series) and extra-light-duty (LL series) stud ends with ISO 261 threads and metal-to-metal sealing. It also specifies the designation of these stud ends. These stud ends should not be used for leak-free hydraulic fluid power applications because they may leak if re-used.

Stud ends in accordance with this part of ISO 9974 may be used at working pressures up to 10 MPa (100 bar <sup>1)</sup>) for the LL series, 25 MPa (250 bar) for the L series and 40 MPa (400 bar) for the S series. 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.

1) 1 bar = 0,1 MPa = 10<sup>5</sup> Pa; 1 MPa = 1 N/mm<sup>2</sup>

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

## 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 261:—<sup>2)</sup>, *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.*

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