



# SLOVENSKI STANDARD SIST EN ISO 18082:2014

01-oktober-2014

Nadomešča:  
SIST EN 15908:2010

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**Anestezijska in dihalna oprema - Mere nizkotlačnih priključkov z navojem, ki se ne menjajo, za delo z medicinskimi plini (NIST) (ISO 18082:2014)**

Anaesthetic and respiratory equipment - Dimensions of non-interchangeable screw-threaded (NIST) low-pressure connectors for medical gases (ISO 18082:2014)

Anästhesie- und Beatmungsgeräte - Maße von nichtverwechselbaren Verbindungsstücken mit Schraubgewinde (NIST) für niedrigen Druck zur Verwendung mit medizinischen Gasen (ISO 18082:2014)

Matériel d'anesthésie et de réanimation respiratoire - Dimensions des raccords basse pression à tête fileté non interchangeables (NIST) pour gaz médicaux (ISO 18082:2014)

**Ta slovenski standard je istoveten z: EN ISO 18082:2014**

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**ICS:**

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|-----------|--|--|
| 11.040.10 | Anestezijska, respiratorna in reanimacijska oprema | Anaesthetic, respiratory and reanimation equipment |
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EUROPEAN STANDARD

EN ISO 18082

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2014

ICS 11.040.10

Supersedes EN 15908:2010

English Version

## Anaesthetic and respiratory equipment - Dimensions of non-interchangeable screw-threaded (NIST) low-pressure connectors for medical gases (ISO 18082:2014)

Matériel respiratoire et anesthésique - Raccords basse pression à tête fileté non interchangeables (NIST) pour gaz médicaux (ISO 18082:2014)

Anästhesie- und Beatmungsgeräte - Maße von nichtverwechselbaren Verbindungsstücken mit Schraubgewinde (NIST) für niedrigen Druck zur Verwendung mit medizinischen Gasen (ISO 18082:2014)

This European Standard was approved by CEN on 22 May 2014.

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

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

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## Foreword

This document (EN ISO 18082:2014) has been prepared by Technical Committee ISO/TC 121 “Anaesthetic and respiratory equipment” in collaboration with Technical Committee CEN/TC 215 “Respiratory and anaesthetic equipment” 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 December 2014, and conflicting national standards shall be withdrawn at the latest by December 2014.

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 15908:2010.

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 18082:2014 has been approved by CEN as EN ISO 18082:2014 without any modification.

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INTERNATIONAL  
STANDARD

ISO  
18082

First edition  
2014-06-15

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**Anaesthetic and respiratory  
equipment — Dimensions of non-  
interchangeable screw-threaded  
(NIST) low-pressure connectors for  
medical gases**

*Matériel respiratoire et anesthésique — Raccords basse pression à  
tête fileté non interchangeables (NIST) pour gaz médicaux*

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**ISO 18082:2014(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.

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. [www.iso.org/directives](http://www.iso.org/directives)

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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 WTO principles in the Technical Barriers to Trade (TBT), see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 121, *Anaesthetic and respiratory equipment*, Subcommittee SC 1, *Breathing attachments and anaesthetic machines*.

This is the first edition of this International Standard that contains the requirements for non-interchangeable screw threaded (NIST) connectors for use with medical gases previously included in ISO 5359:2008 and ISO 5359:2008/Amd.1:2011.

## Introduction

This International Standard has been prepared in response to the need for a safe method of connecting medical equipment intended to administer medical gases to patients or power medical devices. Medical gases are stored in cylinders or cryogenic vessels, or can be produced on site; several medical devices (e.g. pressure regulators, hose assemblies, flow-metering devices, lung ventilators, anaesthetic workstations) can be fitted between the source of supply and the medical device. At each interface gas-specific connectors are needed to ensure that the intended medical gas is administered to the patient.

While the desirability of achieving agreement on a single International Standard for screw-threaded connectors has never been in doubt, the present pattern of usage has made such agreement impossible.

Nevertheless, fears that proliferation of individual national standards or practices will eventually result in potentially dangerous cross-connection between components for different gases have led to the choice of several different connector systems, all of which are intended to be incompatible with each other.

This International Standard specifies the dimensions and the allocation of non-interchangeable screw threaded (NIST) connectors for use with medical gases.

This International Standard does not specify the dimensions and the allocation of

- diameter index safety system (DISS) connectors specified in CGA V-5<sup>[9]</sup>,
- sleeve indexed system (SIS) connectors specified in AS 2896<sup>[7]</sup>, and
- quick connectors designed for terminal units specified in ISO 9170-1<sup>[5]</sup>.

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