

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 18082:2014 sisaldab Euroopa standardi EN ISO 18082:2014 inglisekeelset teksti.	This Estonian standard EVS-EN ISO 18082:2014 consists of the English text of the European standard EN ISO 18082:2014.
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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)

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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of an identical text or by endorsement, at the latest by December 2014, and conflicting national standards shall be withdrawn at the latest by December 2014.

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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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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^[9],
- sleeve indexed system (SIS) connectors specified in AS 2896^[7], and
- quick connectors designed for terminal units specified in ISO 9170-1^[5].

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1 Scope

1.1 This International Standard specifies the dimensions, the allocation and marking of non-interchangeable screw-threaded (NIST) connectors intended to be used at operating pressures up to 1 400 kPa, and for vacuum systems at pressures not greater than 60 kPa absolute.

1.2 This International Standard specifies NIST connectors intended for use with the following medical gases:

- oxygen;
- nitrous oxide;
- medical air;
- helium;
- carbon dioxide;
- xenon;
- specified mixtures of the gases listed above;
- oxygen-enriched air;
- air for driving surgical tools;
- nitrogen for driving surgical tools;

and for use with vacuum.

NOTE Low-pressure hose assemblies for medical gases and vacuum are specified in ISO 5359[3].

1.3 The information to be supplied by the manufacturer is excluded from the scope of this International Standard because information about the use of NIST connectors is supplied by the manufacturer of each medical device to which the connectors are permanently fitted.

NOTE Environmental aspects are dealt with in each International Standard concerning medical devices fitted with NIST connectors.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

gas-specific

having characteristics which prevent connections between different gas services

[SOURCE: ISO 7396-1:2007, 3.14]