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First edition
2014-06-15

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*



Reference number
ISO 18082:2014(E)

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Published in Switzerland

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Terms and definitions	1
3 Dimensions and allocation of NIST connectors	2
4 Marking	11
5 Test for durability of markings	11
Bibliography	12

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

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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.

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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].