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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 45665.2-2025

**Anaesthetic and respiratory equipment - Conical connectors -
Part 2: Screw-threaded weight-bearing connectors**

麻醉和呼吸设备 圆锥接头 第2部分：螺纹承重接头

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 2 of GB/T 45665 "Conical connectors for anesthesia and respiratory equipment". GB/T 45665 has been published as follows part.

--- Part 1: Cone head and cone sleeve;

--- Part 2: Threaded load-bearing joints.

This document is modified to adopt ISO 5356-2:2012 "Conical connectors for anesthetic and respiratory equipment - Part 2: Threaded load-bearing connectors".

The technical differences between this document and ISO 5356-2:2012 and their reasons are as follows.

--- ISO 965-2 (see Chapter 4) has been replaced by the normative reference GB/T 9145 to adapt to my country's technical conditions.

The following editorial changes were made to this document.

--- Incorporated the amendments to ISO 5356-2:2012/AMD1.2019, the outer margins of the clauses involved are indicated by vertical A straight double line (|) is used to indicate;

--- Deleted the "Note" in the "Scope" chapter;

--- Replaced ISO 262:1973 with the informative reference JB/T 7912-1999.

Introduction

GB/T 45665 "Conical connectors for anesthetic and respiratory equipment" is intended to consist of the following parts.

--- Part 1: Cone head and cone sleeve. The purpose is to specify the connection between anesthesia and respiratory equipment (such as breathing systems, anesthetic gas purification the requirements for the dimensions and measurements of the cone head and cone sleeve of the system and evaporator).

--- Part 2: Threaded load-bearing joints. The purpose is to specify the threaded load-bearing conical joints used for inhalation anesthesia equipment and ventilators Size requirements, these couplings are used to equip heavy-duty accessories.

Although the cone head and cone sleeve specified in GB/T 45665.1-2025 are used for the connection of light breathing accessories, they are not suitable for supporting heavy or Fragile accessories require more robust connectors. Design factors for these connectors include strength, simplicity, ease of sterilization, and ease of manual connection and disconnection.

These fittings are compatible with the cone heads and cone sleeves specified in GB/T 45665.1-2025, and although the system is checked for Proper installation is the user's responsibility; these connectors should be designed to minimize the possibility of accidental misconnection.

The threaded load-bearing fittings specified in this document can be used for accessories in breathing systems and at common gas outlets.

Anesthesia and respiratory equipment conical connectors Part 2: Threaded load-bearing joints

1 Scope

This document specifies the dimensional requirements for threaded load-bearing conical fittings for use in inhalation anesthesia equipment and ventilators.

Type accessories.

This document applies to 22mm/15mm coaxial, 22mm threaded load-bearing conical connectors.

This document does not include requirements for the application of threaded load-bearing conical fittings, which have been or will be addressed in the context of specific medical devices and accessories.

Given in the standard.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 9145 Limit sizes of medium precision, preferred series of common threads (GB/T 9145-2003, ISO 965-2:1998, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.

Equipment used to distribute and deliver anesthetic gases and vapors to the ventilation system for delivery to the patient.

Breathing attachments Components that make up or complete a ventilation system.

[Source. GB/T 4999-2003, 4.1.6, modified] 3.3 Ventilation system breathing system A passageway connected to the patient's respiratory tract for the continuous or intermittent delivery of gases during any form of ventilation.

NOTE 1 In practice, the ventilation system usually extends from.

a) The gas supply port for the mixed gas (in some cases, particularly in ventilators, this port may be internal to the device and not compatible with other devices installed elsewhere).

such as the interface on the ventilator housing), such as the common gas outlet of the anesthesia machine;

b) Fresh gas inlet of the circulatory system, such as ventilator, T-tube, etc.;

c) Fresh gas inlet for the artificial resuscitator.

Note 2: The venting system usually extends from the outlet of the mixed gas from the APL valve, the open end of the T-piece, etc. to the atmosphere or the gas purification system.

NOTE 3 Dedicated gas lines connected to the gas purification system are not considered part of the ventilation system.

[Source. GB/T 4999-2003, 4.1.1, modified]