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

GB/T 45739-2025

**Dimensions of gaseous oxygen charging connector for
aerospace**

航空航天用气态氧充氧接头尺寸

(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 modified to adopt ISO 8775:1988 "Gaseous oxygen filling connectors for aerospace fluid systems (new type) Dimensions (inches)" series).

A new chapter "Terms and Definitions" has been added to this document.

The technical differences between this document and ISO 8775:1988 and their reasons are as follows.

--- The normative references GB/T 131 replaced ISO 1302 and GB/T 1182 replaced ISO 1101 (see Table 1) to adapt to our The technical conditions of the country and improve operability;

--- Added the matching dimensions of the British threaded oxygen filling joint (see Figure 2) to meet the actual situation in my country;

--- Added the thread requirements for British standard threaded oxygen-filled joints (see 4.2) to meet the actual situation in my country. The following editorial changes were made to this document.

--- Change the name of the standard to "Dimensions of Gaseous Oxygen Filling Connectors for Aerospace Use" to coordinate with the existing standards;

---Adapt illustrations according to national drawing standards.

1 Scope

This document specifies the general requirements for the fitting dimensions and operating space dimensions of gaseous oxygen filling connectors for aerospace applications.

This document applies to gaseous oxygen filling connectors for aerospace use.

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 131 Product Geometry Specification (GPS) - Method of representation of surface structure in technical product documents (GB/T 131-2006, ISO 1302:2002, IDT)

GB/T 1182 Product Geometry Technical Specification (GPS) Geometric Tolerances Shape, Orientation, Position and Runout Tolerances (GB/T 1182-2018, ISO 1101:2017, MOD)

GB/T 7307 55° non-sealed pipe thread

ISO 725 ISO inch screw threads-Basic dimensions

ISO 3161 Aerospace UNJ threads general requirements and limit sizes
(Aerospace-UNJthreads-Generalre- 3 Terms and definitions There are no terms or definitions that require definition in this document.

4.1 Oxygen filling connector matching dimensions

The dimensions of the mating end of the American threaded oxygen-filled joint shall comply with the requirements of Figure 1 and Table 1.