
**Aerospace — Couplings, threaded
and sealed, for fluid systems —
Dimensions**

*Aéronautique et espace — Raccordement fileté étanche pour les
systèmes de fluides — Dimensions*



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Foreword

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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 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

This third edition cancels and replaces the second edition (ISO 7320:1992), of which it constitutes a minor revision.

The main changes compared to the previous edition are as follows:

- the normative reference has been changed from dated to undated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Aerospace — Couplings, threaded and sealed, for fluid systems — Dimensions

1 Scope

This document establishes a system for sealing the port connection of couplings used in the aerospace industry.

It specifies dimensions to achieve interchangeability of the port connection, the fitting end and a seal. The seal can be a standard O-ring or a special ring.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5855-3, *Aerospace — MJ threads — Part 3: Limit dimensions for fittings for fluid systems*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Sealing principle and assembly of the coupling

The coupling comprises three elements:

- a) the port element, including the internal thread (see [5.1](#));
- b) the fitting element, including an external thread and a groove intended to receive the O-ring (see [5.2](#)) or a special seal; this element is screwed into the internal threaded element;
- c) the seal element, which maintains system pressure without leakage [a standard O-ring (see [5.3](#)) or special seal].

5 Dimensions

5.1 Port connection

See [Figure 1](#) and [Table 1](#).