

INTERNATIONAL STANDARD

ISO
7320

Second edition
1992-12-15

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

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



Reference number
ISO 7320:1992(E)

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 7320 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Sub-Committee SC 10, *Aerospace fluid systems and components*.

This second edition cancels and replaces the first edition (ISO 7320:1985), which has been technically revised.

Annex A of this International Standard is for information only.

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International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

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

1 Scope

This International Standard 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 may be a standard O-ring or a special ring.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5855-3:1988, *Aerospace — MJ threads — Part 3: Limit dimensions for fittings for fluid systems*.

3 Sealing principle and assembly of the coupling

The coupling comprises three elements:

- a) the port element, including the internal thread (see 4.1);
- b) the fitting element, including an external thread and a groove intended to receive the O-ring (see 4.2) 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 4.3) or special seal].