

INTERNATIONAL STANDARD

ISO
1022

First edition
1988-02-01



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Aerospace — Gaseous oxygen replenishment connection for use in fluid systems (old type) — Dimensions (Inch series)

*Aéronautique et espace — Raccordement pour l'alimentation en oxygène gazeux dans les
systèmes de fluide (ancien modèle) — Dimensions (Série en inches)*

STANDARDSISO.COM : Click to view the full PDF of ISO 1022:1988

NOT VALID FOR NEW DESIGNS

Reference number
ISO 1022 : 1988 (E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 1022 was prepared by Technical Committee ISO/TC 20, *Aerospace*.

It cancels and replaces ISO Recommendation ISO/R 1022: 1969, the technical content of which has not been modified.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Aerospace — Gaseous oxygen replenishment connection for use in fluid systems (old type) — Dimensions (Inch series)

1 Scope and field of application

This International Standard specifies the mating dimensions and access clearance for a gaseous oxygen replenishment coupling for aircraft.

This International Standard is not applicable to new designs; for the latter, reference should be made to ISO 8775.

2 References

ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Designation, dimensions and tolerances.*

ISO 1101, *Technical drawings — Geometrical tolerancing — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.*

ISO 8775, *Aerospace — Gaseous oxygen replenishment connection for use in fluid systems (new type) — Dimensions (Inch series).*

3 Requirements

3.1 Coupling mating dimensions

The mating end of the coupling shall conform to the dimensions shown in figure 1 and table 1.

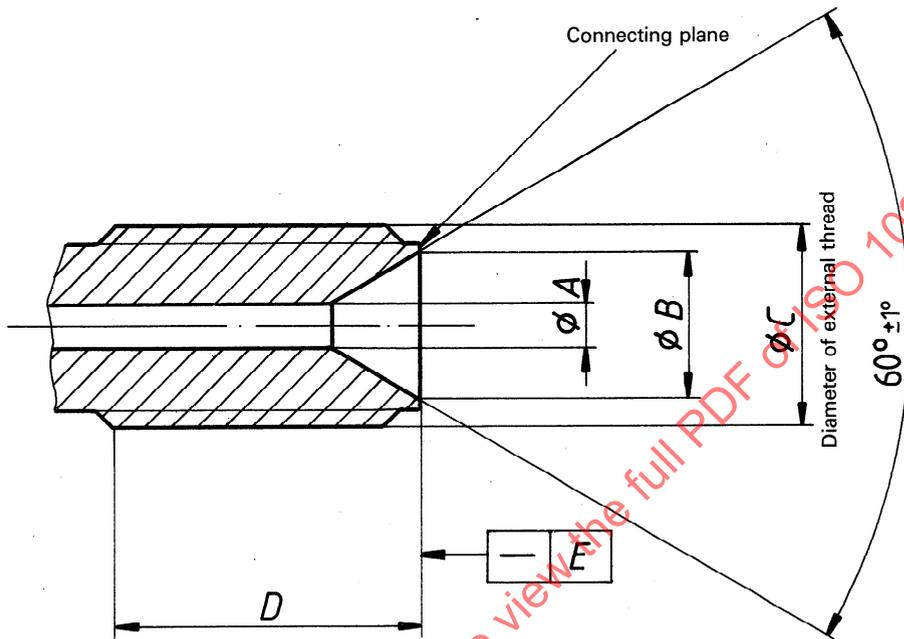


Figure 1

Table 1 – Coupling mating dimensions

Dimensions and tolerance on straightness¹⁾

A		B		C		D		E	
in	mm	in	mm	in	mm	in	mm	in	mm
0.12 $\begin{smallmatrix} +0.02 \\ 0 \end{smallmatrix}$	3 $\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}$	0.385 ± 0.004	9,8 $\pm 0,1$	0.518	13,16	0.75 min.	19 min.	0.000 6	0,015

1) Tolerance on straightness, see ISO 1101.

3.2 Thread

The external connecting thread shall be as follows:

- Pipe thread ISO 228-1 G1/4A.

NOT VALID FOR NEW DESIGNS

3.3 Plugging of orifice

The orifice shall be sealed with a plug to ensure that the coupling remains gas-tight under a pressure of 150 bar¹⁾ (2 175 lbf/in²).

3.4 Access clearance

The dimensions of the clearance allowed round the coupling shall be in accordance with the dimensions shown in figure 2 and table 2.

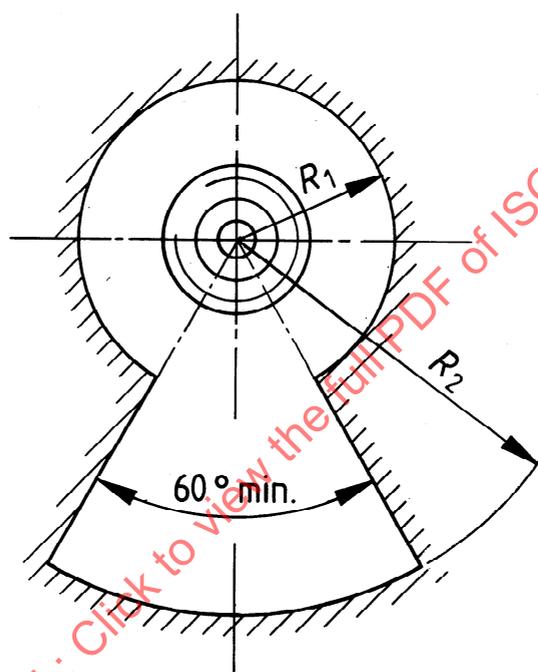


Figure 2

Table 2 — Dimensions of access clearance

Dimensions of access clearance			
R_1 min.		R_2 min.	
in	mm	in	mm
2.2	55	7	180

1) 1 bar = 10^5 Pa = 0,1 MPa

STANDARDSISO.COM : Click to view the full PDF of ISO 1022:1988

NOT VALID FOR NEW DESIGNS