

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1465

LIQUID OXYGEN REPLENISHMENT COUPLINGS FOR AIRCRAFT

INTERCHANGEABILITY DIMENSIONS

1st EDITION

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BRIEF HISTORY

The ISO Recommendation R 1465, *Liquid oxygen replenishment couplings for aircraft – Interchangeability dimensions*, was drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1465, which was circulated to all the ISO Member Bodies for enquiry in March 1968. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia
Belgium
Canada
Czechoslovakia
Israel

Italy
Netherlands
New Zealand
Portugal
Spain

Switzerland
Thailand
Turkey
U.A.R.
United Kingdom

The following Member Bodies opposed the approval of the Draft :

France
U.S.S.R.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

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INTERCHANGEABILITY DIMENSIONS

1. SCOPE

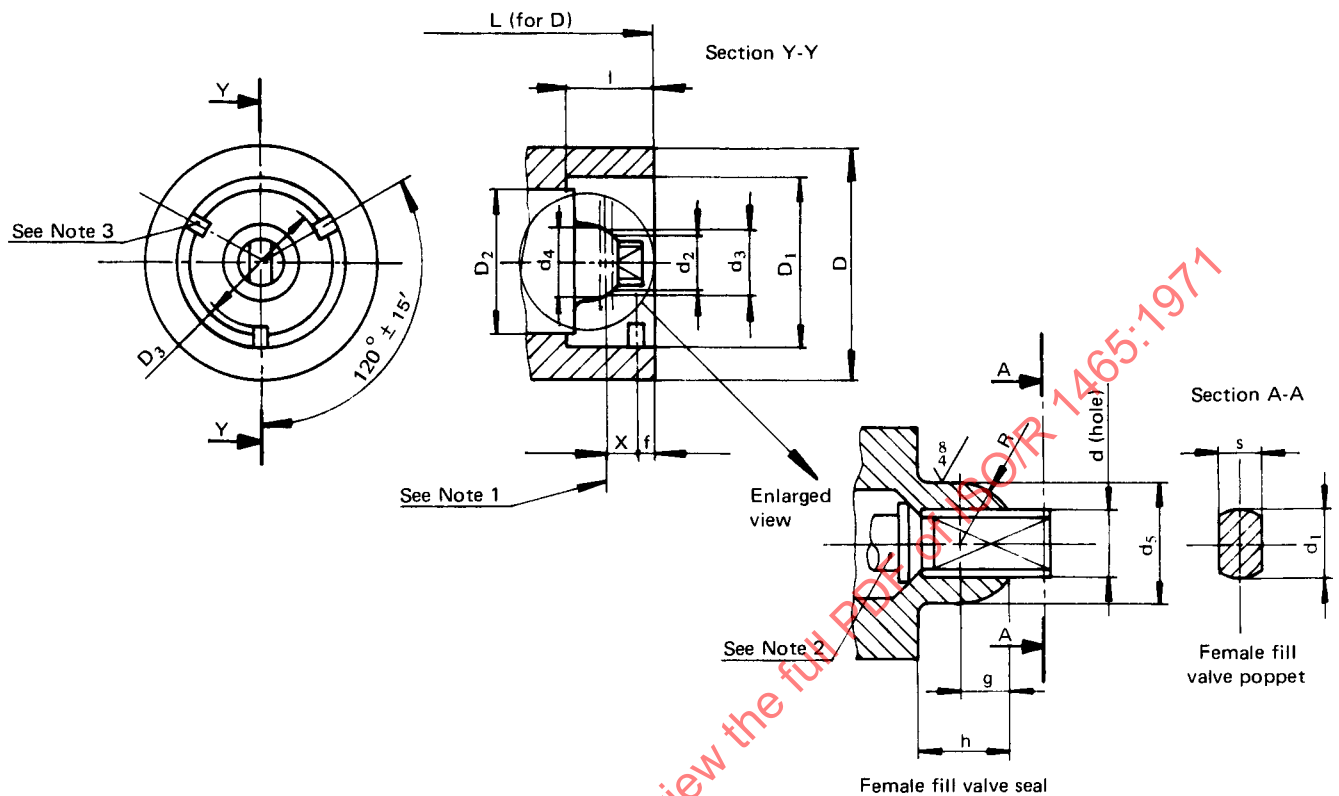
This ISO Recommendation states the interchangeability and clearance dimensions of aircraft liquid oxygen replenishment couplings.

2. INTERCHANGEABILITY

- 2.1 The interchangeability dimensions and characteristics of the ground half of the liquid oxygen replenishment coupling should conform to those in Figure 1.
- 2.2 The aircraft half of the replenishment coupling for liquid oxygen should mate with the ground half replenishment coupling.

3. CLEARANCE ENVELOPE

The clearance envelope in the aircraft to accommodate the ground half of the replenishment coupling, for the purposes of coupling and uncoupling the hose unit, should be in accordance with Figure 2.



Dimension	mm	in
D	51.2 max.	2.016 max.
D_1	35.76 35.71	1.408 1.406
D_2	30.48 min.	1.200 min.
D_3	28.98 28.17	1.141 1.109
d	8.79 8.69	0.346 0.342
d_1	8.59 8.48	0.338 0.334
d_2	10.9 min.	0.430 min.
d_3	12.7	0.500

Dimension	mm	in
d_4	15.2 max.	0.600 max.
d_5	16.0 15.7	0.630 0.620
f	4.09 max.	0.161 max.
g	6.4	0.250
h	11.9	0.469
L	76.2 max.	3.000 max.
l	21.3 min.	0.840 min.
R	7.9	0.312
s	4.9 4.65	0.193 0.183

Tolerance (unless otherwise stated) : ± 0.13 mm (0.005 in).

FIG. 1 — Interchangeability dimensions of ground half of liquid oxygen replenishment coupling