INTERNATIONAL STANDARD 1034

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

Aircraft — Ground air-conditioning connections

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 1034 replaces ISO Recommendation R 1034-1969 drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*.

The Member Bodies of the following countries approved the Recommendation :

Belgium	Greece	Switzerland
Canada	Israel	Thailand
Chile	Italy	United Kingdom
Czechoslovakia	Japan	U.S.A.
Egypt, Arab Rep. of	Netherlands	Yugoslavia
France	Portugal	
Germany	Spain	

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

U.S.S.R.*

* Subsequently, this Member Body approved the Recommendation.

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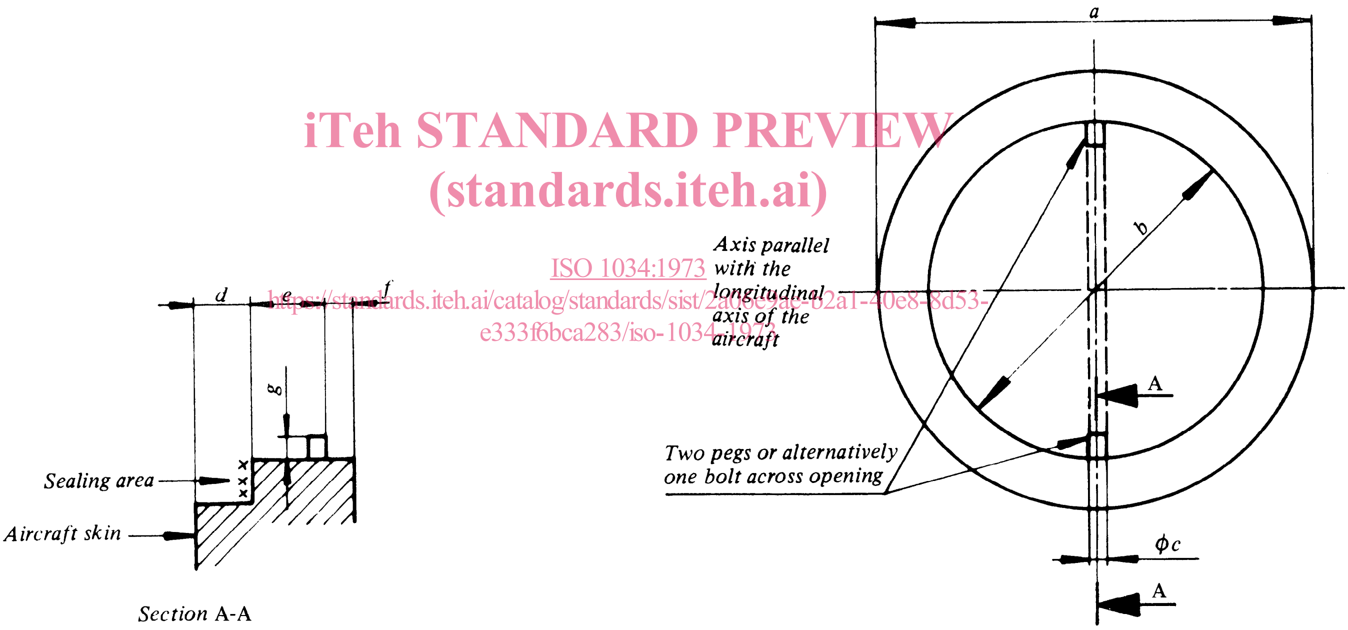
Aircraft – Ground air-conditioning connections

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the requirements for 127 mm (5 in) and 203 mm (8 in) connections on aircraft for the purposes of air-conditioning from ground sources.

2 DIMENSIONS

The connections shall comply with the basic dimensional requirements shown in either Figure 1 or Figure 2 as appropriate.



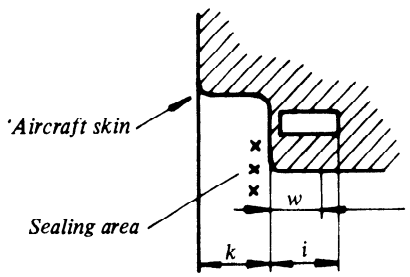
Dimension	mm	in
a 1)	178 min.	7.0 min.
b 2)	134,5 max. 129,5 min.	5.30 max. 5.10 min.
c	6,4 max.	0.25 max.
d	25,4 max.	1.0 max.
e	33 max. 30,5 min.	1.30 max. 1.20 min.
f 3)	11,4 min.	0.45 min.
g	9,5 min.	0.375 min.

1) Minimum diameter clearance for ground unit and sealing area.

2) Opening diameter.

3) Minimum clearance for claw.

FIGURE 1 – **127 mm (5 in) aircraft connection for ground air-conditioning**



Section A-A

The ground unit must not project more than 14,0 mm (0.55 in) beyond the sealing plane except through openings "C".

The bayonet engages against faces "D" which may be located symmetrically within a sector forming an angle of 30° either side of transverse centre line.

Dimension	mm	in
a 1)	254 min.	10.0 min.
b 2)	203,5 max.	8.020 max.
	202,5 min.	7.980 min.
c 3)	227,3 max.	8.95 max.
	226,6 min.	8.92 min.
d	6,35 min.	0.25 min.
e	16,2 min.	0.64 min.
f	31,7 min.	1.25 min.
g	3,3 max.	0.13 max.
	3,0 min.	0.12 min.
h	4,3	0.170
i	18,8 min.	0.740 min.
j 4)	1,1	0.045
k	25,4 max.	1.0 max.
l	22,9	0.900
m	11	0.437
n	2,4	0.094
o	1,2	0.047
p	33	1.300
q	$15{,}87 - {}^{0}_{0{,}25}$	$0.625 - {}^{0}_{0.010}$
s	5	0.200
t 4)	2,4	0.094
u 4)	4,8	0.187
v 4)	1,2	0.047
w 5)	14,0	0.55

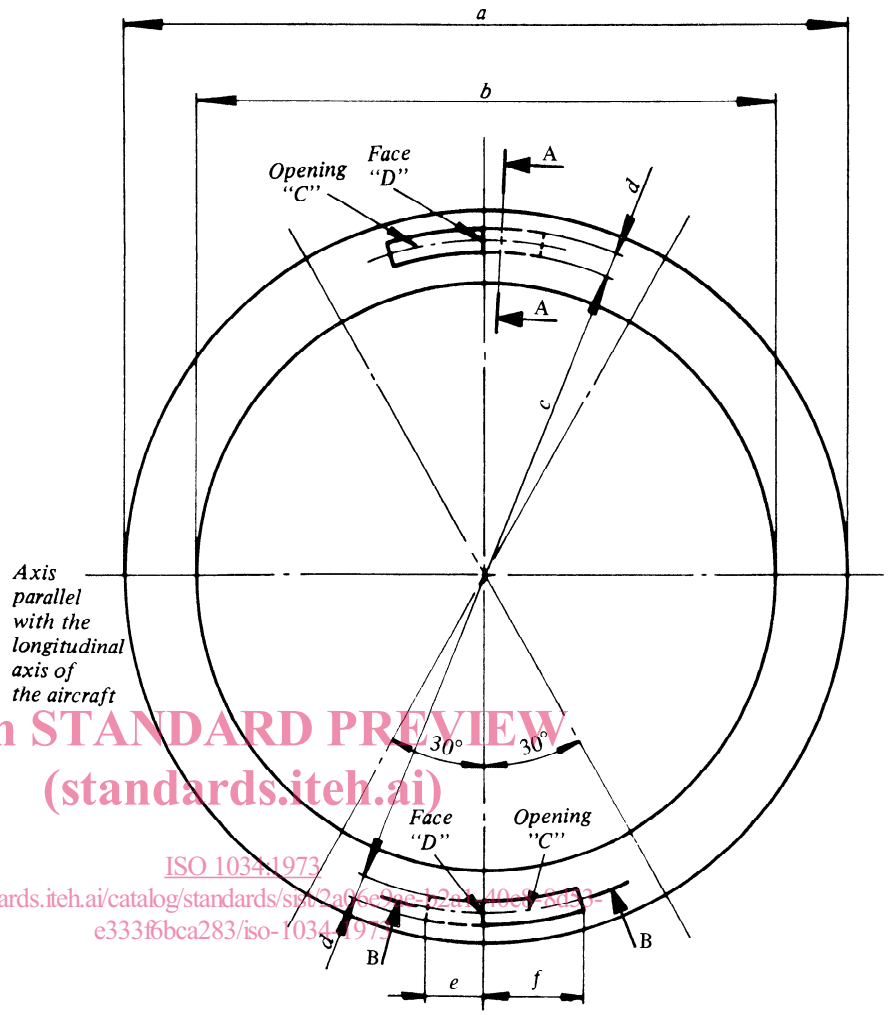
1) Minimum diameter clearance for ground unit.

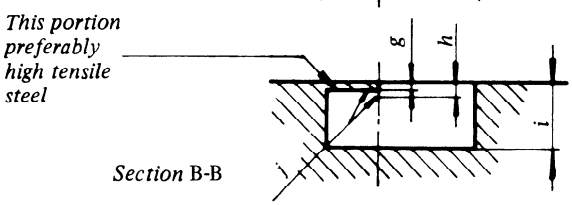
2) Opening diameter.

3) Diameter between slots.

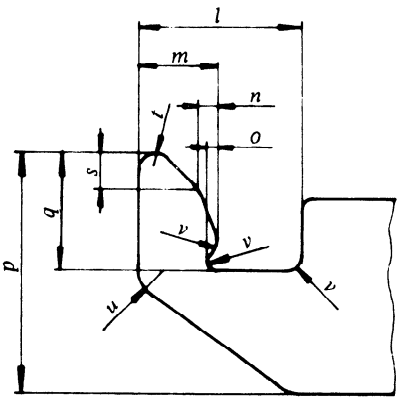
4) Radius.

5) Minimum clear depth of bore.





Section B-B



Detail of suggested claw on hose connection (for reference only)

FIGURE 2 – **203 mm (8 in) aircraft connection for ground air-conditioning**