

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 10

AIRCRAFT CONNECTION FOR
GROUND AIR-CONDITIONING

1st EDITION
November 1955

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BRIEF HISTORY

Envelope dimensions for ground air-conditioning connections to facilitate aircraft servicing internationally were considered by the International Organization for Standardization through its Technical Committee ISO /TC 20 - Aircraft, the Secretariat of which is held by the British Standards Institution.

During its first meeting, held in London on 19 to 21 November, 1951, United Kingdom proposals for a connection were adopted.

The following Member Bodies took part in this meeting:

France, Italy, Netherlands, Switzerland, United Kingdom.

Observers attended from: United States, Yugoslavia, International Air Transport Association (IATA) and International Civil Aviation Organization (ICAO).

On 17 June, 1953, the Draft ISO Recommendation proposed by the Technical Committee ISO /TC 20 was submitted to all Member Bodies of ISO.

The Draft was subjected to only minor changes in the detail and manner of presentation as a result of comments received and it was distributed to the Member Bodies on 2 November, 1954, together with the final report of the Secretariat.

This Draft ISO Recommendation was approved by the following 21 (out of a total of 34) Member Bodies:

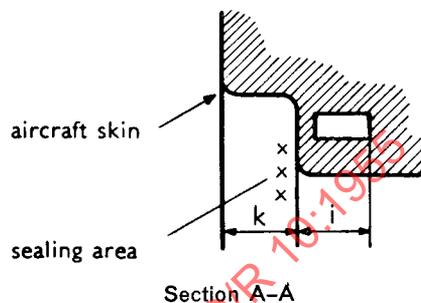
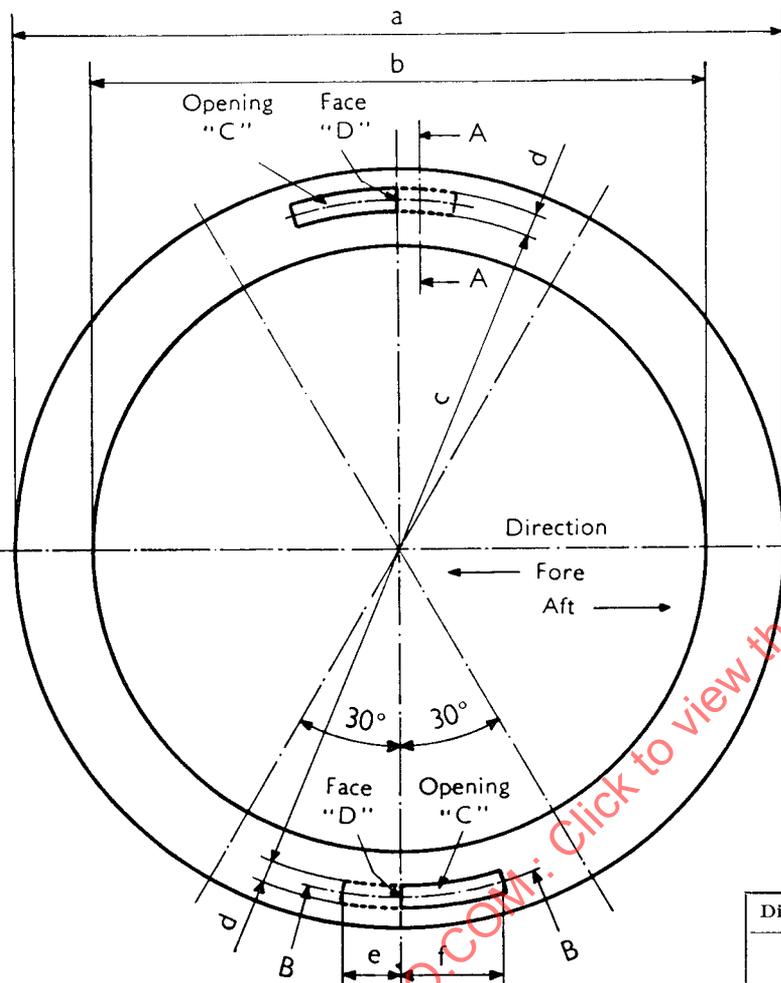
Belgium	Ireland	Spain
Brazil	Italy	Sweden
Denmark	Japan	Switzerland
Finland	Mexico	Union of South Africa
France	Netherlands	United Kingdom
Hungary	New Zealand	U.S.A.
India	Pakistan	Yugoslavia

IATA also approved the Draft.

In December, 1954, the ISO Council decided by correspondence to accept the Draft ISO Recommendation as an ISO RECOMMENDATION.

AIRCRAFT CONNECTION FOR GROUND AIR-CONDITIONING

The basic dimensional requirements shown below apply to inlet connections for coupling with the ground hose connection or adaptor for air-conditioning aircraft.

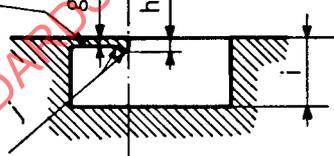


The ground unit must not project beyond the sealing plane except through openings "C".

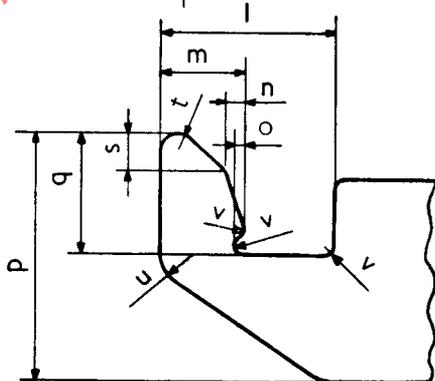
The bayonet engages against faces "D" which may be located symmetrically within a sector forming an angle of 30° either side of transverse centre line.

This portion preferably high tensile steel

Section B-B



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



Dimension	Inches	Millimetres
a ¹⁾	10.0 min.	254 min.
b ²⁾	8.020 max. 7.980 min.	203.5 max. 202.5 min.
c ³⁾	8.95 max. 8.92 min.	227.3 max. 226.6 min.
d	0.25 min.	6.35 min.
e	0.64 min.	16.25 min.
f	1.25 min.	31.75 min.
g	0.13 max. 0.12 min.	3.3 max. 3.0 min.
h	0.170	4.3
i	0.740 min.	18.8 min.
j ⁴⁾	0.045	1.1
k	1.0 max.	25.4 max.
l	0.900	22.86
m	0.437	11
n	0.094	2.4
o	0.047	1.2
p	1.300	33
q	0.625 \pm $\frac{0}{-0.010}$	15.876 \pm $\frac{0}{-0.254}$
s	0.200	5
t ⁴⁾	0.094	2.4
u ⁴⁾	0.187	4.8
v ⁴⁾	0.047	1.2

¹⁾ Minimum diameter clearance for ground unit.
²⁾ Opening.
³⁾ Diameter between slots.
⁴⁾ Radius.

