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Aircraft — Connections for starting engines by air

Aéronefs — Raccords pour le démarrage à l'air des moteurs

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FOREWORD

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Aircraft — Connections for starting engines by air

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of connections for starting aircraft engines by air, which are necessary to ensure international interchangeability of connectors with adaptors. It also gives the minimum clearances required on the aircraft to provide adequate access for the ground adaptor.

2 DIMENSIONS

2.1 The basic dimensions and tolerances for connections on aircraft shall be as shown in figure 1 and table 1.

2.2 The minimum clearances around the connector, on the aircraft, for adequate access for the ground adaptor are given in figure 2 and table 2.

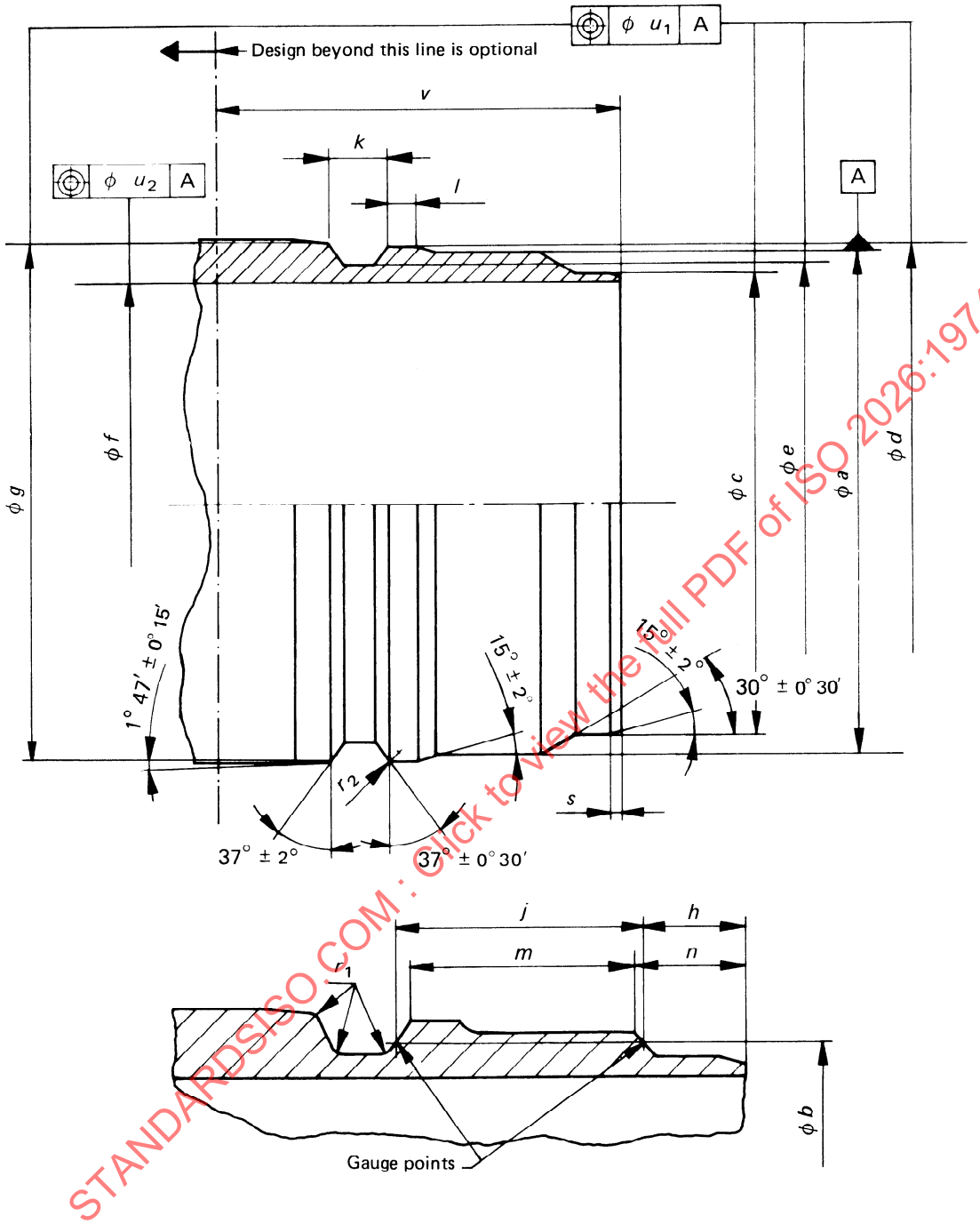

FIGURE 1 — **Basic dimensions and tolerances of connection**

TABLE 1 — **Dimensions and tolerances for connections on aircraft**

Dimension	mm	in
ϕa	85 max. 84,86 min.	3.346 max. 3.341 min.
ϕb	83,9 max. 83,76 min.	3.303 max. 3.297 min.
ϕc	78,77 max. 78,696 min.	3.101 max. 3.098 min.
ϕd	86,4 max. 86,26 min.	3.402 max. 3.397 min.
ϕe	81,46 max. 81,33 min.	3.209 max. 3.203 min.
ϕf	76,19 (reference)	3 (reference)
ϕg	87,9 max. 87,76 min.	3.461 max. 3.456 min.
h	12 ± 0,08	0.472 ± 0.003
j	28,6 ± 0,08	1.126 ± 0.003
k	9,5 ± 0,2	0.374 ± 0.008
l	5 ± 0,2	0.197 ± 0.008
m	26,7 (reference)	1.051 (reference)
n	13 (reference)	0.511 (reference)
r_1	1,5 ± 0,5	0.06 ± 0.02
r_2	1 ± 0,125	0.04 ± 0.005
s	1,5 ± 0,2	0.06 ± 0.008
u_1	0,025	0.001
u_2	0,125	0.005
v*	66,675 min.	2.625 min.

* Minimum length to ensure coupling connection. Increase length when bolted flanges are used.

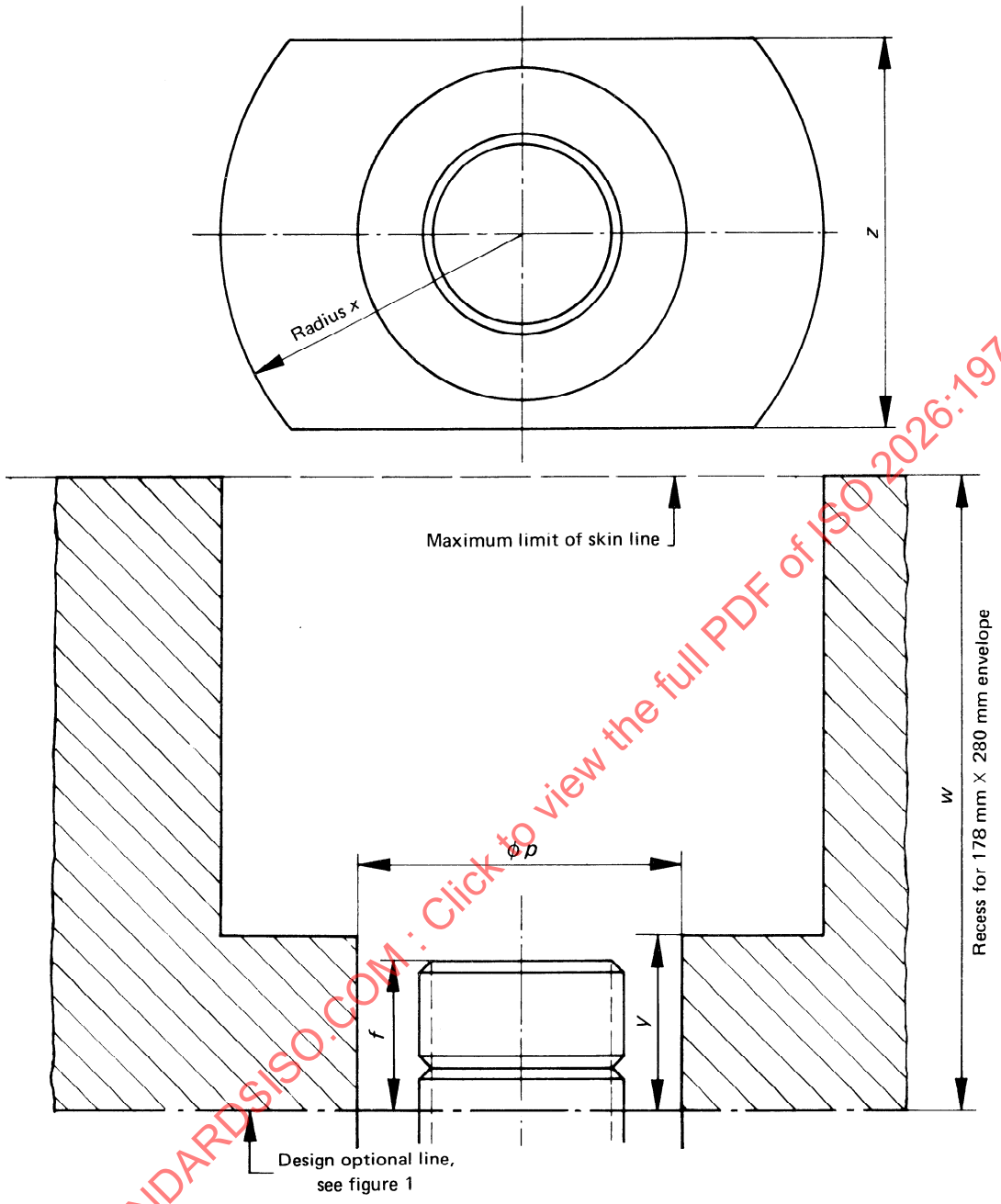

FIGURE 2

TABLE 2 – **Minimum clearances between aircraft and connection**

Dimension	mm	in
ϕp min.	152,0	6.0
f min.	66,7	2.625
y max.	76,2	3.0
w max.	210,0	8.25
z min.	178,0	7.0
Rad. x min.	140	5.5