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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION
R 45

AIRCRAFT PRESSURE REFUELLING CONNECTIONS

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For each individual country the only valid standard is the national standard of that country.

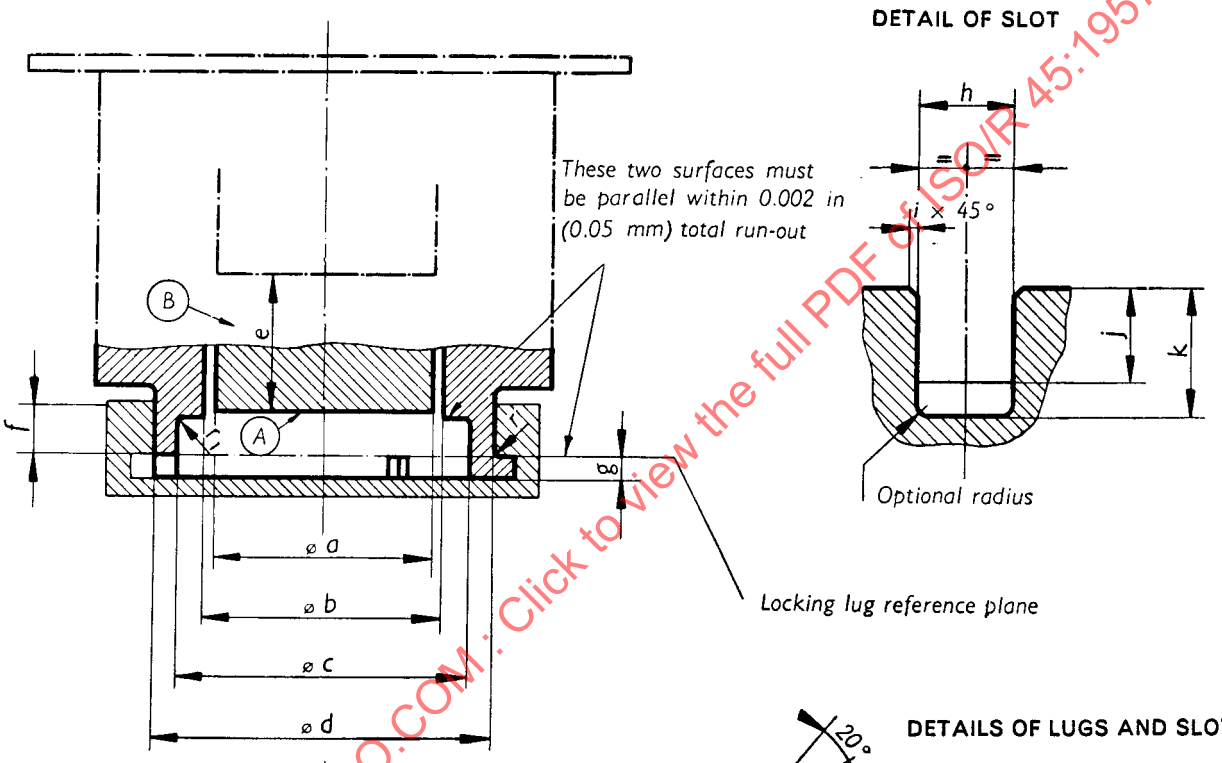
Printed in Switzerland

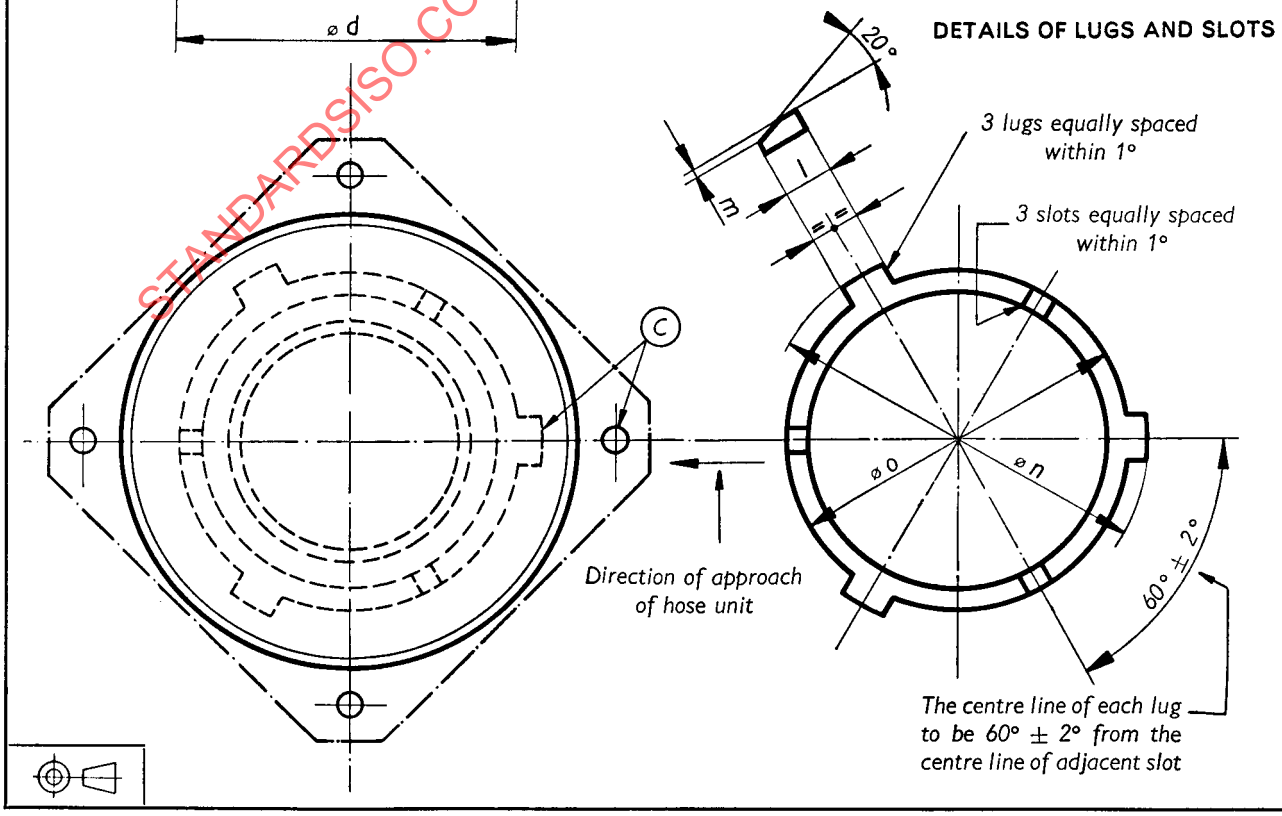
Also issued in French and Russian. Copies to be obtained through the national standards organizations.

ISO Recommendation R 45 July 1957

AIRCRAFT PRESSURE REFUELLING CONNECTIONS

The basic dimensions of aircraft pressure refuelling connections are shown in the figures and the table below.





Dimensions	Inches	Millimetres	Dimensions	Inches	Millimetres
a	2.25 min.	57.2 min.	r	0.015 max. 0.010 min.	0.38 max. 0.25 min.
b	$2.50\ ^{+0.010}_{-0}$	$63.5\ ^{+0.25}_{-0}$	r_1	0.016 max.	0.4 max.
c(1)	$3.00\ ^{+0.005}_{-0}$	$76.2\ ^{+0.127}_{-0}$	j	$0.242\ ^{+0.031}_{-0}$	$6.1\ ^{+0.8}_{-0}$
d(1)	3.495 max.	88.773 max.	k(4)	0.333 max.	8.5 max.
e(2)	1.438	36.525	l	$0.500\ ^{+0}_{-0.032}$	$12.7\ ^{+0}_{-0.8}$
f(3)	0.570 max.	14.47 max.	m	0.090 ± 0.010	2.29 ± 0.25
g	$0.247\ ^{+0}_{-0.005}$	$6.274\ ^{+0}_{-0.127}$	n	$3.995\ ^{+0}_{-0.057}$	$101.5\ ^{+0}_{-1.4}$
h	$0.25\ ^{+0.010}_{-0}$	$6.35\ ^{+0.25}_{-0}$	o(5)	$3.495\ ^{+0}_{-0.052}$	$88.8\ ^{+0}_{-1.3}$
i	0.031	0.787			

(1) These diameters to be concentric within 0.005 in (0.127 mm). Full indicator reading.
(2) Minimum valve travel.
(3) This represents an envelope into which no portion of the aircraft unit may project.
(4) Optional for manufacturing.
(5) The negative tolerance is not applicable beyond the depth of the slots.

NOTES

(A) The valve face is to be flat within diameter a and no part of the valve is to extend below this face. Configuration of the valve above this face is optional.

(B) The valve is spring-loaded. Loading at 1.438 in (36.525 mm) travel is not to exceed 50 lb (22.7 kg).

(C) The unit is orientated on aircraft so that the lug is in line with, and toward the direction of, the normal approach of hose unit.