



## Aircraft — Pressure cabin ground test connections

*Aéronefs — Raccord pour essai au sol de pressurisation de la cabine des aéronefs*

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ISO 11:1980

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**Descriptors** : aircraft, aircraft cabins, pressurized cabins, pressure tests, pipe fittings, connections, dimensions.

## 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.

International Standard ISO 11 was developed by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and was circulated to the member bodies in December 1978.

It has been approved by the member bodies of the following countries :

Austria	Ireland	Romania
Belgium	Italy	South Africa, Rep. of
Canada	Japan	Spain
Czechoslovakia	Korea, Rep. of	United Kingdom
France	Mexico	USA
Germany, F. R.	Netherlands	

The member body of the following country expressed disapproval of the document on technical grounds :

USSR

This International Standard cancels and replaces ISO Recommendation R 11-1955, of which it constitutes a technical revision.

# Aircraft — Pressure cabin ground test connections

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## 1 Scope and field of application

This International Standard specifies the basic dimensional and access clearance requirements for pressure testing connections on pressurised aircraft for coupling with the hose unit or adaptor of ground pressurising equipment. Three sizes of connection are specified as follows :

Connection bore	Recommended cabin volume
22,22 mm <sup>1)</sup> (0.875 in)	Not exceeding 10 m <sup>3</sup> (300 ft <sup>3</sup> )
46,04 mm (1.812 5 in)	10 to 45 m <sup>3</sup> (300 to 1 500 ft <sup>3</sup> )
72,39 mm (2.85 in)	45 to 170 m <sup>3</sup> (1 500 to 6 000 ft <sup>3</sup> )

## 2 Reference

ISO/R 725, *ISO inch screw threads — Basic dimensions.*

## 3 Required characteristics

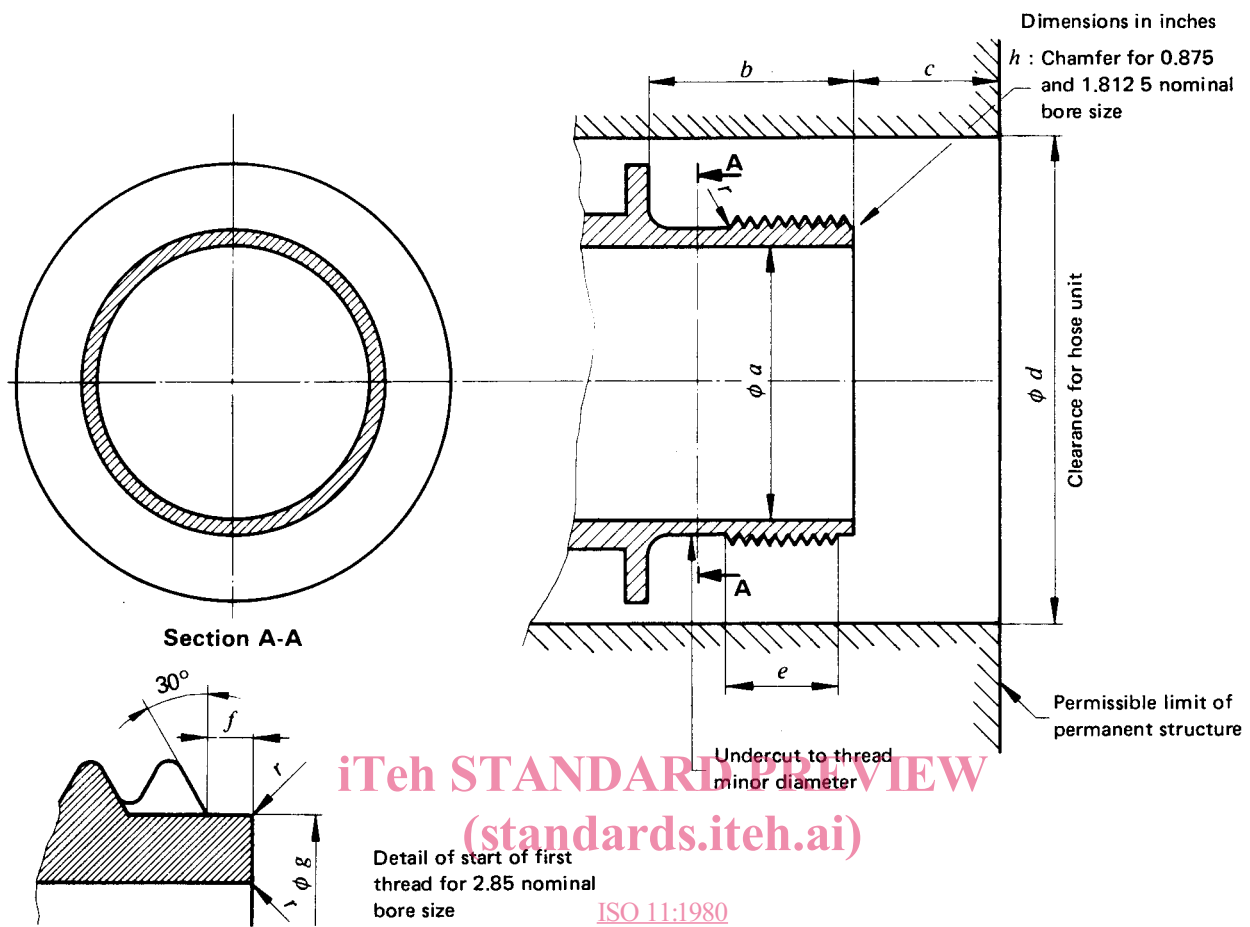
### 3.1 Basic dimensions

The basic dimensions of the connections shall conform to the requirements of the figure.

### 3.2 Access clearance

The clearance allowed around the connections shall be in accordance with the figure.

1) The 22,22 mm (0.875 in) bore connection should be used as the fitting for ducting pressure testing.



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Dimension	Nominal bore size					
	0,875		1,812 5		2,85	
	mm	in	mm	in	mm	in
$a^{1)}$	22,23	0.875	46,05	1.813	$72,39^{+0,13}_0$	$2.85^{+0.005}_0$
$b$ min.	25,4	1.0	25,4	1.0	57,15	2.25
$c$ max.	38,0	1.5	38,0	1.5	38,0	1.5
$d$ min.	82,0	3.25	95,0	3.75	127,0	5.0
$e^{2)}$	12,7	0.50	12,7	0.50	31,75	1.25
$f$	—	—	—	—	$3,94 \pm 0,13$	$0.155 \pm 0.005$
$g$	—	—	—	—	$79,76^0_{-0,26}$	$3.14^0_{-0.01}$
$h$	1,6/45°	0.062 5/45°	1,6/45°	0.062 5/45°	—	—
$r^{3)}$	—	—	—	—	0,635	0.025
Thread <sup>4)</sup>	1,25 - 12 UNF 2 A		2,375 - 12 UN 2 A		3,5 - 4 UNC 2 A	

- 1) Recommended bore.
- 2) Full thread.
- 3) Radius.
- 4) Threads in accordance with ISO/R 725.

Figure — Basic dimensions and clearance requirements