INTERNATIONAL STANDARD

ISO 9939

First edition
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Aerospace — Pressure re-oiling connection (new type)

Aéronautique et espace — Raccord pour alimentation en huile sous pression (nouveau modèle)

Reference number
ISO 9939:1994(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9939 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

This first edition replaces ISO 451 for new designs.

Annex A of this International Standard is for information only.

International Organization for Standardization
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Aerospace — Pressure re-oiling connection (new type)

1 Scope

This International Standard specifies the basic dimensions of a pressure re-oiling connection for use with all oils for aircraft engines, and the clearance envelope to be provided.

2 Requirements

2.1 Connection

The connection shall conform to the minimum requirements and basic dimensions given in figure 1 and table 1.

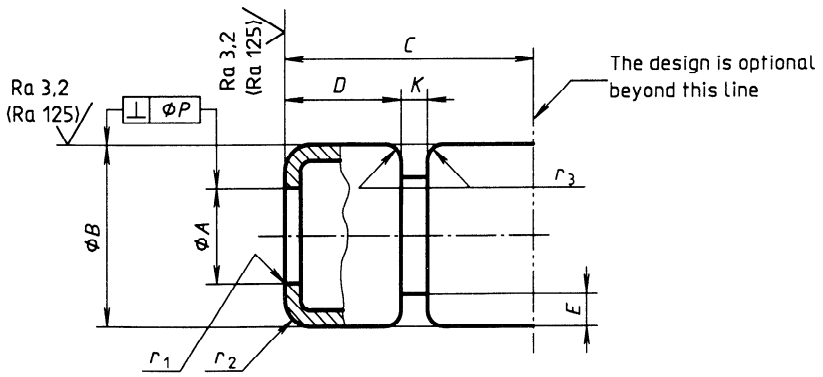
2.2 Access clearance

The minimum dimensions of the access clearance envelope to be provided around the connection shall be as given in figure 1 and table 1.

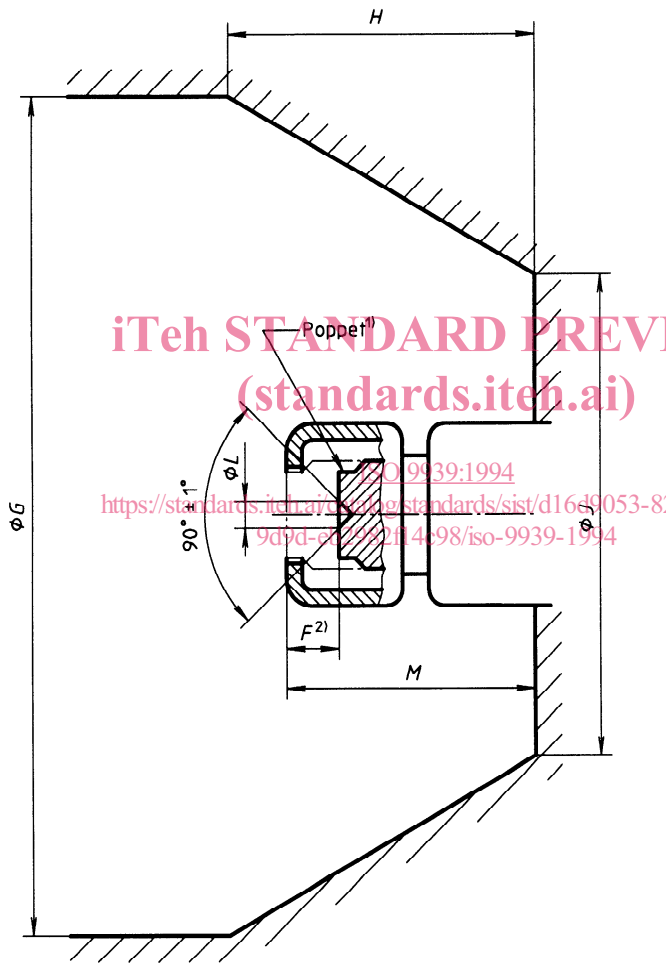
Table 1

Dimension	Millimetres		Inches	
	min.	max.	min.	max.
A	14,73	14,78	0,580	0,582
B	25,35	25,40	0,998	1,000
C	30,66	30,96	1,207	1,219
D	17,4	17,5	0,685	0,689
E	2,54	2,59	0,100	0,102
F	5,56	6,35	0,219	0,250
G	127	—	5	—
H	—	44,45	—	1,75
J	76,2	—	3	—
K	4,62	4,88	0,182	0,192
L	2,92	3,43	0,115	0,135
M	31,75	—	1,25	—
P	—	0,025	—	0,001
r_1	0,13	0,25	0,005	0,010
r_2	2,92	3,43	0,115	0,135
r_3	0,51	0,76	0,02	0,03

Surface roughness values in micrometres (micro inches)



a) Connection



b) Access clearance around the connection

1) In the closed position, the poppet shall be essentially flush with the face of the connection and there shall be no appreciable gap (groove) between the poppet and the housing.

2) *F* is measured from the face of the connection and shows the OPEN position of the poppet.

NOTES

1 Remove all burrs and break sharp edges 0,4 mm (0,016 in) max. radius.
2 The method of indicating geometric tolerances complies with ISO 1101.
3 The method of indicating surface texture complies with ISO 1302.

Figure 1

Annex A
(informative)

Bibliography

[1] ISO 1101:1983, *Technical drawings — Geometrical tolerancing — Tolerances of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.*

[2] ISO 1302:1992, *Technical drawings — Method of indicating surface texture.*

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Descriptors: aircraft, aircraft engines, lubrification systems, filling devices, inlet connections, dimensions.

Price based on 3 pages