

INTERNATIONAL STANDARD

ISO
9939

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1994-01-15

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

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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.

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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.

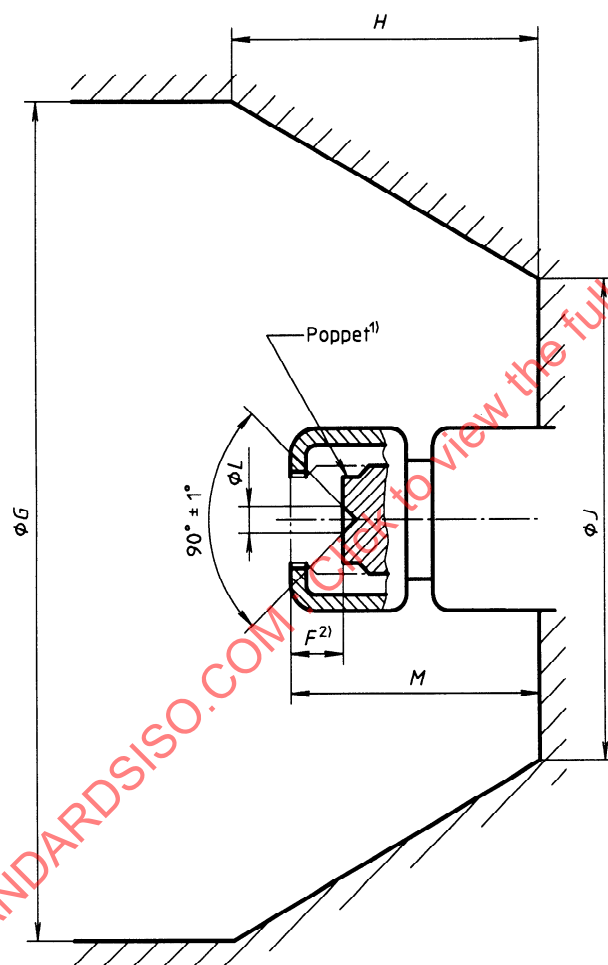
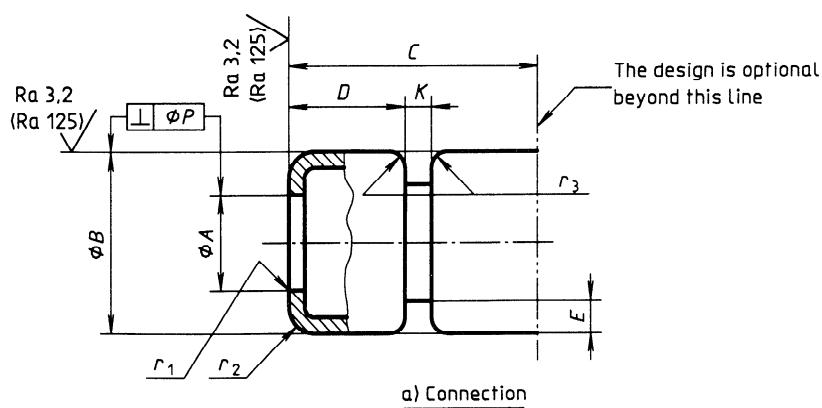
2.2 Access clearance

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

Surface roughness values in micrometres (micro inches)



- 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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