INTERNATIONAL STANDARD

ISO 8940

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Aerospace — Nuts, anchor, self-locking, sealing, floating, two-lug, with counterbore, classifications 900 MPa/120 °C, 900 MPa/175 °C and 900 MPa/235°C — Dimensions

Aéronautique et espace — Écrous à river à freinage interne, étanches, flottants, double patte, avec chambrage, classifications 900 MPa/120 °C, 900 MPa/175 °C *et* 900 MPa/235 °C — *Dimensions*

Reference number
ISO 8940 : 1988 (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 approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8940 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles.*

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Aerospace — Nuts, anchor, self-locking, sealing, floating, two-lug, with counterbore, classifications 900 MPa/120 °C, 900 MPa/175 °C and 900 MPa/235 °C — Dimensions

1 Scope

This International Standard specifies the dimensions for two-lug, floating, counterbored, anchor nuts, with a self-locking feature achieved by forming the upper portion of the nut element out-of-round, having the following classifications :

- 900 MPa/120 °C,
- 900 MPa/175 °C,
- 900 MPa/235 °C,

and into which a sealing ring is incorporated to stop leakage past the threads.

NOTE — The dimensions specified in this International Standard have been specified so that the requirements laid down in the procurement specification, ISO 5858, are complied with.

This International Standard is intended solely for the drawing up of complete product standards which, in order for such nuts to be manufactured, shall include, in addition to the details given in figure 1 and table 1, the following information :

- material[1];
- possible surface coating(s)[1];
- procurement specification, i.e. ISO 5858;
- designation;
- marking.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5855-2 : 1981, *Aerospace construction — MJ threads — Part 2 : Dimensions for bolts and nuts.*

ISO 5858 : —[2], *Aerospace — Self-locking nuts with maximum operating temperature less than or equal to 425 °C — Procurement specification.*

ISO 8788 : 1987, *Aerospace — Fasteners — Tolerance of form and position for nuts.*

1) The material and possible surface coating(s) to be quoted in the complete product standard shall be chosen advisedly according to the characteristics required for the nuts and the fluids with which it is intended to operate.

2) To be published.

3 Configuration and dimensions

Dimensions in millimetres

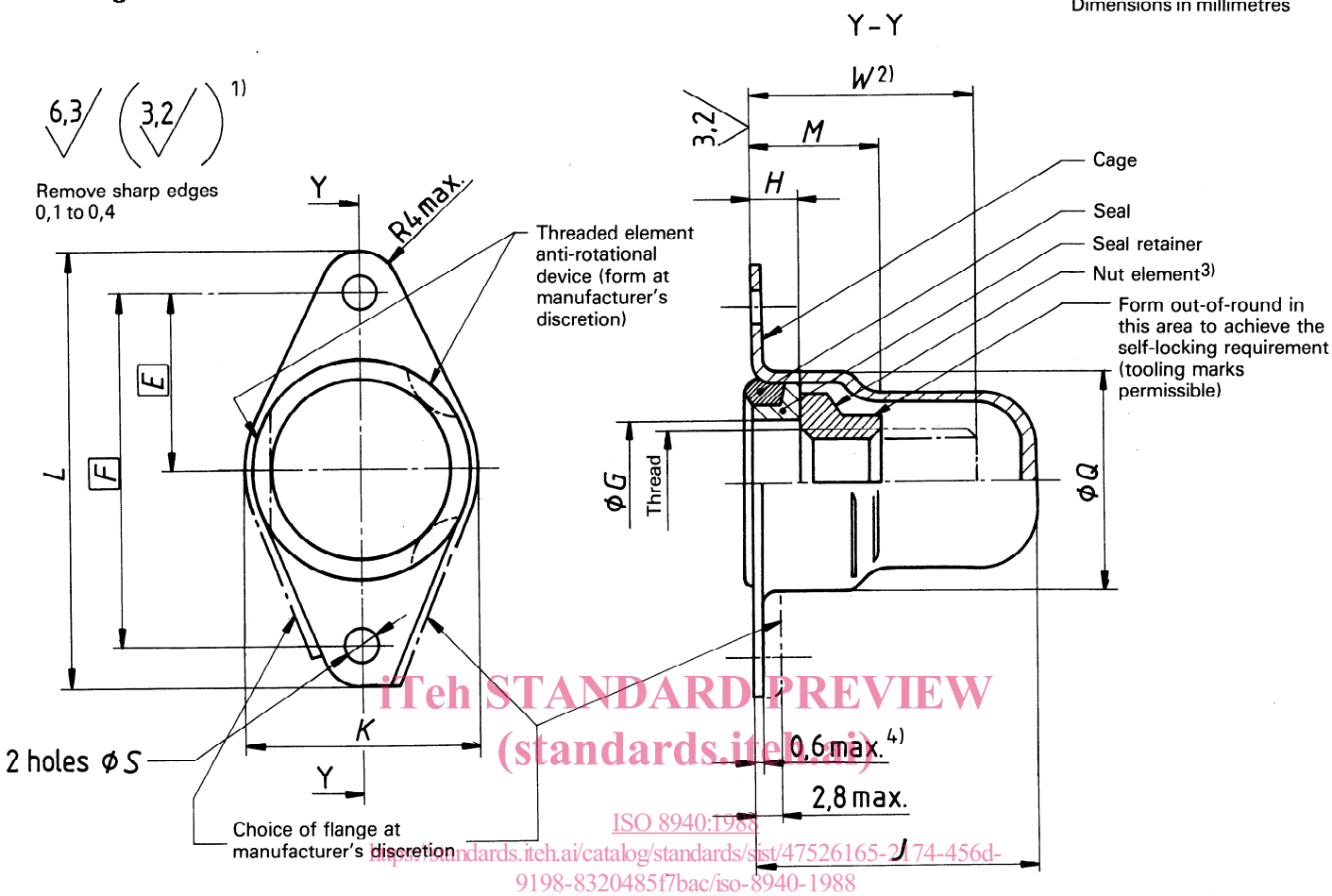

Figure 1 — Configuration[5]

Table 1 — Dimensions[6], [7]

Dimensions in millimetres

Size code	Thread[8]	*E*	*F*	*G* min.	*H* min.	*J* max.	*K* max.	*L* max.	*M* max.	*Q* max.	*S* $^{+0,2}_{0}$	*W* max.
050	MJ 5 × 0,8 — 4H6H	9,5	19	6	3,4	16,2	14,4	24,6	7,9	12,5	2,5	14,4
060	MJ 6 × 1 — 4H5H	11	22	7	4,1	19,2	17	29	9,5	16	2,5	17,4
080	MJ 8 × 1 — 4H5H	13	26	9	4,1	20,3	19,4	32,5	11,3	18,5	3	18,5

1) These values, in micrometres, are applicable before any surface coating(s) is (are) applied. This requirement does not apply to threads, punched holes or sheared edges, the surface texture of which will be as achieved by the usual manufacturing methods.

2) Maximum bolt thread intrusion

3) Minimum radial float of nut element : 0,5 mm

4) Lug thickness at the rivet location

5) Details of form not stated are left to the manufacturer's discretion.

6) These dimensions and tolerances are applicable after any electrolytic deposition, but before the application of any dry film lubricant.

7) The tolerances of form and position are laid down in ISO 8788.

8) In accordance with ISO 5855-2; in the self-locking zone, the tolerances apply before forming out-of-round.

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Descriptors : aircraft industry, aircraft equipment, fasteners, nuts (fasteners), anchor nuts, self locking nuts, floating nuts, counterbore nuts, dimensions.

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