December 2013

DIN 929

DIN

ICS 21.060.20

Supersedes
DIN 929:2013-05

Hexagon weld nuts,
English translation of DIN 929:2013-12

Sechskant-Schweißmuttern,
Englische Übersetzung von DIN 929:2013-12

Écrous hexagonaux à souder,
Traduction anglaise de DIN 929:2013-12

Document comprises 10 pages

Translation by DIN-Sprachendienst.
In case of doubt, the German-language original shall be considered authoritative.

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A comma is used as the decimal marker.

Contents

Foreword

This standard has been prepared by Working Committee NA 067-00-03 AA *Verbindungselemente mit metrischem Innengewinde* of the *Normenausschuss Mechanische Verbindungselemente* (FMV) (Fasteners Standards Committee).

The DIN 929:1972-12 edition assigned the property class 8 to hexagon weld nuts, adding 'weldable'. Since then, proof loads for nuts have been increased and new nut heights specified in international (and European) specifications (see DIN EN ISO 898-2).

Neither in this nor in the previous revision of this standard did it seem advisable to increase the height of weld nuts and thus harmonize it with the calculation basis for nuts with full loadability, since weld nut mounting is largely automated. Changing nut dimensions would have caused major difficulties which would not have been outweighed by a slightly greater resistance to stripping.

Therefore, this latest edition of this standard leaves nut dimensions unchanged, without specifying property classes. Instead, it only specifies steel with a maximum carbon content of 0,25 % and relevant proof loads. The proof loads of weld nuts specified in this standard are deemed sufficient to form fully loadable screw connections with bolts of a property class < 8.8. Weld nuts with a higher loadability are specified in DIN EN ISO 21670.

The DIN 4000-161-5 tabular layout of product properties applies to weld nuts covered by this standard.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. DIN shall not be held responsible for identifying any or all such patent rights.

Amendments

This standard differs from DIN 929:2000-01 as follows:

a) normative references have been updated;

b) in Table 1 and Table 4, the number of positions after the decimal comma has been harmonized;

c) according to DIN ISO 965-1, symbol d_1 has been changed to D;

d) symbols d_2 to d_5 have been changed to d_1 to d_4;

e) Table 2 replaces 4.1 to 4.3, 4.5 and 4.6;

f) the standard has been editorially revised.

DIN 929:2013-05 contained an error that has been corrected as follows:

a) In Table 1, the limit deviations for h1 and h2 included in the standard preceding the May 2013 edition have been re-included.

Previous editions

DIN 929: 1965-09, 1972-12, 1983-08, 1987-09, 1998-02, 2000-01, 2013-05

1 Scope

This document specifies requirements for hexagon weld nuts with coarse metric threads from sizes M3 to M16 and with fine pitch metric threads with nominal diameters from 8 mm to 16 mm in product grade A.

According to DIN EN ISO 898-1, weld nuts specified in this standard are suitable for connection with bolts of property class < 8.8.

This standard does not apply to hexagon weld nuts with flange as specified in DIN EN ISO 21670.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

DIN 13-1, *ISO general purpose metric screw threads — Part 1: Nominal sizes for coarse pitch threads — Nominal diameter from 1 mm to 68 mm*

DIN 13-5, *ISO general purpose metric screw threads — Part 5: Nominal sizes for 1 mm and 1,25 mm fine pitch threads — Nominal diameter from 7,5 mm to 200 mm*

DIN 13-6, *ISO general purpose metric screw threads — Part 6: Nominal sizes for 1,5 mm fine pitch threads — Nominal diameter from 12 mm to 300 mm*

DIN 267-2, *Fasteners — Technical delivery conditions — Design and dimensional accuracy*

DIN EN ISO 898-1, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 1: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

DIN EN ISO 898-2, *Mechanical properties of fasteners made of carbon steel and alloy steel — Part 2: Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread*

DIN EN ISO 3269, *Fasteners — Acceptance inspection*

DIN EN ISO 4042, *Fasteners — Electroplated coatings*

DIN EN ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

DIN EN ISO 21670, *Hexagon weld nuts with flange*

DIN ISO 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

DIN ISO 8992, *Fasteners — General requirements for bolts, screws, studs and nuts*

ASME B 1.1, *Unified Inch Screw Threads (UN and UNR Thread Form)*[1)]

1) Obtainable from *Beuth Verlag GmbH* (Foreign Standards Service), 10772 Berlin, Germany.