

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 898 / III

MECHANICAL PROPERTIES OF FASTENERS

MARKING OF BOLTS, SCREWS, STUDS AND NUTS

1st EDITION

April 1969

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BRIEF HISTORY

The ISO Recommendation R 898/III, *Mechanical properties of fasteners – Marking of bolts, screws, studs and nuts*, was drawn up by Technical Committee ISO/TC 2, *Bolts, nuts and accessories*, the Secretariat of which is held by the Deutscher Normenausschuss (DNA).

Work on this question by the Technical Committee led, in 1966, to the adoption of a Draft ISO Recommendation.

In September 1967, this Draft ISO Recommendation (No. 1298) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Austria	Iran	South Africa, Rep. of
Belgium	Ireland	Spain
Canada	Israel	Sweden
Chile	Italy	Switzerland
Czechoslovakia	Japan	Turkey
Denmark	Korea, Rep. of	U.A.R.
Finland	Netherlands	United Kingdom
France	New Zealand	U.S.A.
Germany	Norway	U.S.S.R.
Greece	Poland	Yugoslavia
Hungary	Portugal	
India	Romania	

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in April 1969, to accept it as an ISO RECOMMENDATION.

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MECHANICAL PROPERTIES OF FASTENERS

MARKING OF BOLTS, SCREWS, STUDS AND NUTS

1. SCOPE

This ISO Recommendation relates to the marking of hexagon bolts and screws, hexagon socket head cap screws, studs and hexagon nuts which are described in ISO Recommendations R 898/I, *Mechanical properties of fasteners – Bolts, screws and studs*, and R 898/II, *Mechanical properties of fasteners – Nuts*.

The same marking system may be used for other types of bolts, screws and nuts with property classes according to ISO Recommendations R 898/I and R 898/II, e.g. slotted head screws, by agreement between customer and supplier:

2. MARKING OF BOLTS, SCREWS AND STUDS

2.1 Symbols

TABLE 1

Property class		3.6	4.6	4.8	5.6	5.8	6.6	6.8	6.9	8.8	10.9	12.9	14.9
Marking symbol	preferable	3.6	4.6	4.8	5.6	5.8	6.6	6.8	6.9	8.8	10.9	12.9	14.9
	permissible	3 6	4 6	4 8	5 6	5 8	6 6	6 8	6 9	8 8	10 9	12 9	14 9

2.2 Identification

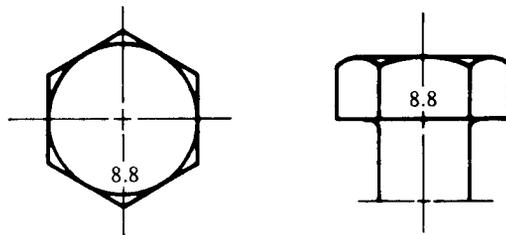
2.2.1 Hexagon bolts and screws

Hexagon bolts and screws should be marked with the designation symbols of the property classes described in ISO Recommendation R 898/I (see Table 1).

The marking should be obligatory for property classes equal to or higher than 8.8, preferably on the top of the head by indenting or embossing or on the side of the head by indenting.

Marking is required for hexagon bolts and screws with nominal diameters greater than 5 mm or No. 10.

Examples



2.2.2 Hexagon socket head cap screws

Hexagon socket head cap screws should be marked with the designation symbols of the property classes described in ISO Recommendation R 898/I (see Table 1).

The marking should be obligatory for property classes equal to or higher than 8.8, preferably on the top of the head by indenting or embossing or on the side of the head by indenting.

Marking is required for hexagon socket head cap screws with nominal diameters greater than 5 mm.

Inch series hexagon socket head cap screws are excluded from these marking requirements, since they are manufactured in one property class only.

Examples

