|  | M1,6 to M 39 hexa <br> Product grade |
| ---: | ---: |
| Sechskantschrauben mit Schaft; Gewinde M1,6 bis M 39 ; <br> Produktklassen A und B |  |

This standard, together with DIN ISO 4014, September 1987 edition, supersedes the December 1982 edition.

Thls standard should be used together with ISO 4014. For detalls, see Explanatory notes. It is intended to withdraw the present standard by 1 July 1992 at the latest.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

## Dimensions in mm

## 1 Field of application

This standard specifies requirements for M1,6 to M 36 hexagon head bolts assigned to product grade $A$ tor threadsizes up to and including M 24 and lengths smaller than 10 d or 150 mm , and assigned to product grade B for thread sizes above M24 or lengths exceoding $10 d$ or 150 mm .
If, in speclal cases, bolts are to comply with specifications other than fhose given in this standard, e.g. regarding nominal lengths, these shall be selected in accordance with the appropriate standard.

## 2 Dimensions

DiN 78-K thread end,


Continued on pages 2 to 7
Table. (concluded)


## 3 Technical delivery conditions

| Material |  | Steet | Stainless steel | Nor－ferrous metal |
| :---: | :---: | :---: | :---: | :---: |
| General requirements |  | As specified in DIN 287 Part 1. |  |  |
| Thread | Tolerance | 6 g |  |  |
|  | Standard | DIN 13 Parts 12 and 15. |  |  |
| Mechanical properties | Property class（material） | 5．6，8．8， 10.9 |  | Subject to agreement． |
|  | Standard | 150898 Part 1 | DIN 267 Part 11 | DIN 267 Fart 16 |
| LImit devlations， geometrical tolerances | Product grade | A for products up to size $M 24$ and $l \leq 10 d$ or 150 mm$)$ ． B for products exceeding size M 24 or $l>10 d$ or $(50 \mathrm{~mm})$ ． |  |  |
|  | Standard | ISO 4759 Part 1 |  |  |
| Surface finish |  | DIN 267 Part 2 shall apply with regard to surface roughness． DIN 267 Part 19 shall apply with regard to permissible surface discontinultios． <br> DIN 267 Part 9 shall apply with regard to electroplating． DIN 267 Part 10 shall apply with regard to hot dip galvanizing． |  |  |
| Acceptance inspection |  | DIN 267 Part 5 shall apply with regard to acceptance inspeotlon． |  |  |
| ${ }^{\text {1）}}$ Whichever is shorter（see stepped line in the dimension table）． |  |  |  |  |

## 4 Designation

Designation of an M 12 hexagon head bolt of nominal length，$I=80 \mathrm{~mm}$ ，with material assigned to property class 8.8 ：

$$
\text { Hexagon head bolt DIN } 931-\mathrm{M} 12 \times 80-8.8
$$

If product grade $A$ is regulred for sizos up to M 24 with lengths over 150 mm or with $l$ greater than 10 d，or for sizes above M 24 ， then this shal be indicated in the designatlon by adding＇ A ＇，eg．

Hexagon head bolt DIN 931－M30×100－8．8－A
$\mathrm{D} \mid \mathrm{N} 962$ shall apply with regard to the designation of designs and typos，with additional detales to be given when ordering． DIN 6900 shall apply with regard to the designation of fypes with captive components．
D｜N 7500 Part 1 shall apply with regard to the designation of types with thread rolling properties．
The DIN 4000－2－t tabular layout of article characteristics shall apply to bolts covered in this standerd．

Footnotes for the tables on pages 2 to 4 ：
1）$P=$ pltch of thread（coarse pitch thread）．
${ }^{2}$ ）For $l \leq 125 \mathrm{~mm}$ ，
9）For $l>125 \mathrm{~mm} \leq 200 \mathrm{~mm}$ ．
4）For $l>200 \mathrm{~mm}$ ．

