UDC 621.882.219.1.092.4

September 1986

# Slotted set screws with full dog point

DIN 926

Gewindestifte mit Schlitz und Zapfen

Supersedes August 1972 edition.

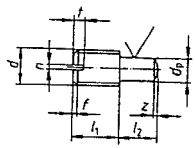
*In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.*

## 1 Dimensions

Dimensions in mm

$\sqrt{} = \sqrt{R_z\,6{,}3}$ for sizes up to M 3

$\sqrt{R_z\,16}$ for sizes exceeding M 3




| Thread size $d$ | | M 1 | M 1,2 | M 1,4 | M 1,6 | M 2 |
|---|---|---|---|---|---|---|
| $P$[1] | | 0,25 | 0,25 | 0,3 | 0,35 | 0,4 |
| $d_p$ | max = nominal size | 0,5 | 0,7 | 0,8 | 0,8 | 1,2 |
| | min | 0,475 | 0,675 | 0,775 | 0,775 | 1,175 |
| $f$ | max | 0,4 | 0,4 | 0,5 | 0,5 | 0,6 |
| $n$ | Nominal size | 0,2 | 0,2 | 0,2 | 0,25 | 0,25 |
| | min | 0,26 | 0,26 | 0,26 | 0,31 | 0,31 |
| | max | 0,4 | 0,4 | 0,4 | 0,45 | 0,45 |
| $t$ | min | 0,4 | 0,4 | 0,48 | 0,56 | 0,64 |
| | max | 0,52 | 0,52 | 0,63 | 0,74 | 0,84 |
| $z$ | ≈ | 0,1 | 0,15 | 0,2 | 0,2 | 0,25 |

| $l_1$ | |
|---|---|
| Nominal size | Tolerance |
| 1 | js 15 for $l_1$ and $l_2$ |
| (1,2) | |
| 1,6 | |
| 2 | |
| 2,5 | |
| (3) | |
| 4 | |

| $l_2$ | | |
|---|---|---|
| Nominal size | min | max |
| 0,5 | 0,5 | 0,75 |
| 0,6 | 0,6 | 0,85 |
| (0,8) | 0,8 | 1,05 |
| 1 | 1 | 1,25 |
| (1,2) | 1,2 | 1,45 |
| 1,6 | 1,6 | 1,85 |
| 2 | 2 | 2,25 |

Sizes and intermediate lengths given in brackets should be avoided if possible.
Slotted set screws are normally manufactured in the range indicated by stepped lines.
[1]) $P$ = pitch of thread (coarse pitch thread)

Continued on pages 2 to 4

Table (concluded)

| Thread size $d$ | | M 2,5 | M 3 | (M 3,5) | M 4 | M 5 | M 6 |
|---|---|---|---|---|---|---|---|
| $P^{1})$ | | 0,45 | 0,5 | 0,6 | 0,7 | 0,8 | 1 |
| $d_p$ | max = nominal size | 1,5 | 2 | 2,5 | 2,8 | 3,5 | 4,5 |
| | min | 1,475 | 1,975 | 2,475 | 2,775 | 3,47 | 4,47 |
| $f$ | max | 0,7 | 0,8 | 0,9 | 1 | 1,2 | 1,5 |
| $m$ | Nominal size | 0,4 | 0,5 | 0,5 | 0,6 | 0,8 | 1 |
| | min | 0,46 | 0,56 | 0,56 | 0,66 | 0,86 | 1,06 |
| | max | 0,6 | 0,7 | 0,7 | 0,8 | 1 | 1,2 |
| $t$ | min | 0,72 | 0,8 | 0,96 | 1,12 | 1,28 | 1,6 |
| | max | 0,95 | 1,05 | 1,21 | 1,42 | 1,63 | 2 |
| $z$ | ≈ | 0,35 | 0,4 | 0,45 | 0,5 | 0,6 | 0,7 |

| $l_1$ | |
|---|---|
| Nominal size | Tolerance |
| 2 | js 15 for $l_1$ and $l_2$ |
| 2,5 | |
| (3) | |
| 4 | |
| (5) | |
| 6 | |
| (8) | |
| 10 | |
| (12) | |

| $l_2$ | | |
|---|---|---|
| Nominal size | min | max |
| (1,2) | 1,2 | 1,45 |
| 1,6 | 1,6 | 1,85 |
| 2 | 2 | 2,25 |
| 2,5 | 2,5 | 2,75 |
| (3) | 3 | 3,25 |
| 4 | 4 | 4,3 |
| (5) | 5 | 5,3 |
| 6 | 6 | 6,3 |

1) $P$ = pitch of thread (coarse pitch thread).

## 2 Technical delivery conditions

| Material | | Steel | Stainless steel | Non-ferrous metal |
|---|---|---|---|---|
| General requirements | | As specified in DIN 267 Part 1. | | |
| Thread | Tolerance class | For sizes up to and including M 1,4: 4h; from size M 1,6: 6g | | |
| | Standard | DIN 13 Part 15 | | |
| Mechanical properties [3] | Property class (material) | 14H [1] | A1-50<br>C4-50 | CuZn = copper-zinc alloy [2] |
| | Standard | ISO 898 Part 5 | DIN 267 Part 11 | DIN 267 Part 18 |
| Permissible dimensional deviations and deviations of form | Product grade | For sizes up to and including M 1,4: F; from size M 1,6: A | | |
| | Standard | DIN 267 Part 6; ISO 4759 Part 1 | | |
| Types and finishes with additional information to be stated on ordering | | As specified in DIN 962. | | |
| Surface finish | | As processed. | Bright. | Bright. |
| | | DIN 267 Part 2 shall apply with regard to surface roughness.<br>DIN 267 Part 19 shall apply with regard to permissible surface discontinuities.<br>DIN 267 Part 9 shall apply with regard to electroplating. | | |
| Acceptance inspection | | DIN 267 Part 5 shall apply with regard to acceptance inspection. | | |

[1] Where cold drawn steels as specified in DIN 1651 are used, the following values of elongation at break, $A_5$, are permissible:
for sizes not exceeding M 4, 5 %;
for sizes exceeding M 4, 6 %.

[2] CuZn = CU2 or CU3 (as specified in DIN 267 Part 18), at the manufacturer's discretion.

[3] Other property classes or materials shall be subject to agreement.

## 3 Designation

Designation of an M 2 slotted set screw with full dog point, of lengths $l_1 = 2{,}5$ mm and $l_2 = 1{,}6$ mm, assigned to property class 14H [1]:

Slotted set screw DIN 926 – M 2 × 2,5 × 1,6 – 14H

[1] Where no property class or type of material is given in existing documentation, property class 14H shall apply.

## Standards referred to

| | | |
|---|---|---|
| DIN | 13 Part 15 | ISO metric screw threads; fundamental deviations and tolerances for screw threads of 1 mm and larger |
| DIN | 267 Part 1 | Fasteners; technical delivery conditions; general requirements |
| DIN | 267 Part 2 | Fasteners; technical delivery conditions; types of finish and dimensional accuracy |
| DIN | 267 Part 5 | Fasteners; technical delivery conditions; acceptance inspection (modified version of ISO 3269, 1984 edition) |
| DIN | 267 Part 6 | Fasteners; technical delivery conditions; types of finish and dimensional accuracy for product grade F |
| DIN | 267 Part 9 | Fasteners; technical delivery conditions; components with electroplated coatings |
| DIN | 267 Part 11 | Fasteners; technical delivery conditions (with additions to ISO 3506); corrosion-resistant stainless steel fasteners |
| DIN | 267 Part 18 | Fasteners; technical delivery conditions; components made of non-ferrous metals |
| DIN | 267 Part 19 | Fasteners; technical delivery conditions; surface discontinuities on bolts and screws |
| DIN | 962 | Screws, bolts, studs and nuts; designations, types and finishes |
| DIN | 1651 | Free cutting steels; technical delivery conditions |
| ISO | 898 Part 5 | Mechanical properties of fasteners; set screws and similar threaded fasteners not under tensile stresses |
| ISO | 4759 Part 1 | Tolerances for fasteners; bolts, screws and nuts with thread diameters between 1,6 (inclusive) and 150 mm (inclusive) and product grades A, B and C |

## Previous editions

01.43, 08.53, 08.72.

## Amendments

The following amendments have been made in comparison with the August 1972 edition.

a) Size M 1,8 has been deleted because there is no demand for it.

b) The previous design m as specified in DIN 267 Part 2, April 1968 edition, has been replaced by product grade F as specified in DIN 267 Part 6 and product grade A as specified in ISO 4759 Part 1.

c) Limiting dimensions calculated from the permissible tolerances have been included.

d) Some values of slot depth have been amended.

e) Property class 5.8 has been replaced by property class 14H.

f) The technical delivery conditions have been amended.

g) The content of the standard has been editorially revised.

h) The example of designation has been amended.

## International Patent Classification

F 16 B 23/00
F 16 B 35/00