Aug 15 2001 10:35

P. 01/04

UDC 621.882.215.1.091.4.092.4

September 1986

# Slotted pan head screws with small head and full dog point

DIN 922

Flachkopfschrauben mit Schlitz, kleinem Kopf und Zapfen

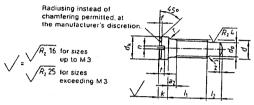
Fax:062084389

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



a<sub>2</sub> as specified in DIN 76 Part 1 (2 P maximum).

- Day	Thread size	d	M 1,4	M 1,6	M 2	M 2,5	M 3
P1)			0,3	0.35	0.4	0.45	0.5
$d_k$	max = nomin	al size	2	2,3	2,8	3.5	4
	min		1,86	2.16	2,66	3,32	3.82
$d_{\rm p}$	max = nomina	size	0.8	0,8	1,2	1,5	2
	min.		0,775	0,775	1,175	1,475	1,975
	**		0.25	0,25	0,3	0.4	0.45
	Nominal size		0,9	1	1,2	1,5	1,8
k	max		1.02	1,12	1,32	1,62	1,92
	min		0,78	0,88	1.08	1,38	1.68
	Nominal size		0,25	0,3	0,3	0.4	0,5
n	min		0,31	0,36	0,36	0.46	0,56
	max		0,45	0.5	0.5	0.6	0.7
<u>r</u>	max		0,1	0,1	0.1	0.1	0,7
1	min		0.45	0.5	0.6	0.75	0.9
	max		0,6	0,7	0.8	0,95	1,15
Z	-=		0.2	0.2	0,25	0.35	0.4
(3) 4 (5)		js 15 $l_1$ and $l_2$		—— <u>i</u>			
-	12						
ominal size		1	1				
0,6	0.6	0.65	<del> </del> ,-				
(8,0)	0.8	1,05	[		Ī		
1	1	1,25		L		į	
(1,2)	1,2	1,45	ļt				
1,6	1,6	1,85	<u> </u>	i			
	2	2,25	-			ī	
		2,75		L			
2	1 25			4	l l		
2 2,5	2.5		!	1	J		
2 2,5 (3)	3	3,25 se pitch thread)					

Fax:062084389

Aug 15 2001 10:35 P.02/04

Page 2 DIN 922

### Table (concluded)

	Thread size	10 d	(M 3,5)	M 4	M 5	Md	M 8	M 10
<i>P</i> 1)			0,6	0,7	0,8	1	1,25	1.5
$d_k$	mex = non	unal size	4,5	5,5	6,5	8	10	13
~*k	181H		4,32	5.32	6,28	7,78	9,78	12,73
.,	max = nom	unal size	2.5	2.8	3,5	4.5	6	7,5
d <sub>p</sub>	mid		2,475	2,775	3.47	4.47	5,97	7,464
1	*,		0,5	0,6	0.7	0.8	0.9	
1	Nominal si	Z()	2	2,4	2,7	3,1	3,8	1,1 4,6
k	maix		2,12	2.52	2.82	3,25	3,95	4.75
	min.		1,88	2,28	2,58	2,95	3,65	
	Nominal siz	:e	0.5	0,6	0,8	1	1,2	4,45
n	min		0,56	0.66	0.86	1,06		1,6
	max		0,7	0.8	1	1,2	1,26	1,66
,	max		0.1	0,2	0,2		1,51	1,91
	min		1 1	1,2	<del></del>	0.25	0,4	0,4
t	max		1,3	1,5	1.3	1,5	1,9	2,3
	*		0,45	0,5	1,6	1,9	2,4	2.8
	l,		0,43	U,3	0,6	0,7	1	1
Naminal size	. min	max						
2,5	2.4	2,6	Ĺ					
(3)	2,9	3,1						
4	3,8	4,2						
(5)	4,8	5.2						
6	5.8	6.2				ľ		
(8)	7,8	8.2					<b> </b>	
10	9,8	10,2						
(12)	11,7	12,3				ŀ		
16	15,7	16.3	ĺ	1	ľ			
20	19,6	20,4				-		
ominal size	$l_2$	,	i	<u></u>				
1,6	1,6	1,85			<del></del>	<del></del>		
2	2	2,25	-					
2,5	2.5	2,75						
(3)	3	3.25						<u> </u>
4	4				1	<u> </u>		
(5)		4,3	<u> </u>				L	
6	5	5,3						
	6	6.3		i	L			
(8)	8	8,36		ļ		L		
10	10	10,36			-	- 1	7	

Thread sizes and intermediate lengths given in brackets should be avoided if possible. Slotted pan head screws are normally manufactured in the range indicated by stepped lines.

<sup>1)</sup> P = pitch of thread (coarse pitch thread).

Fax:062084389

Aug 15 2001 10:36

P. 03/04

DIN 922 Page 3

## 2 Technical delivery conditions

IVI	alerial	Steel	Stainless steel	Non-terrous meta		
General requirements		As specified in DIN 267 Part 1.				
Thread	Tolerance class	For size M1.4: 4h; from size M1.6: 6g.				
	Standard	DIN 13 Part 15				
Mechanical	Property class (material)	5.81)	A1-50 C4-50	CuZn = copper-zin- alloy 2)		
properties 3)	Standard	ISO 898 Part 1 (test programme B)	DIN 267 Part 11	DIN 267 Part 18		
Permissible dimensional deviations and	Product grade	For size M1,4: F; from size M1,6: A.				
deviations of form	Standard	DIN 267 Part 6: ISO 4759 Part 1				
Types and finishes with a o be stated on ordering	dditional information		As specified in DIN 962.			
Surface finish		As processed.	Bright.	Bright.		
		DIN 267 Part 2 shall apply with regard to surface roughness. DIN 267 Part 19 shall apply with regard to permiscible surface discontinuities DIN 267 Part 9 shall apply with regard to electroplating.				
Acceptance inspection		DIN 267 Part 5 shall apply with regard to acceptance inspection.  d in DIN 1651 are used, the following values of elongation at break, A <sub>5</sub> , are				

- for sizes larger than M4 up to and including sizes not exceeding M8, 6%; for size M 10, 7%.
- 2) CuZn = CU2 or CU3 (as specified in DIN 267 Part 18), at the manufacturer's discretion.
- Other property classes or materials shall be subject to agreement.

## 3 Designation

Designation of an M 5 slotted pan head screw with small head and full dog point, with  $l \approx$  10 mm and  $l_2 = 4$  mm, assigned to

Pan head screw DIN 922 – M 5  $\times$  10  $\times$  4 – 5.8

<sup>1)</sup> Where no property class or type of material is given in existing documentation, property class 5.8 shall apply.

Fax:062084389

Aug 15 2001 10:36

P. 04/04

## Page 4 DIN 922

## Standards referred to

	13 Part 15 76 Part 1 267 Part 1 267 Part 2 267 Part 5 267 Part 6 267 Part 9 267 Part 11	ISO metric screw threads; fundamental deviations and tolerances for screw threads of 1 mm and larger Thread run-outs and thread undercuts for ISO metric threads as specified in DIN 13 Fasteners; technical delivery conditions; general requirements Fasteners, technical delivery conditions, types of finish and dimensional accuracy Fasteners, technical delivery conditions; acceptance inspection (modified version of ISO 3269, 1984 edition) Fasteners, technical delivery conditions; types of finish and dimensional accuracy for product grade Fasteners; technical delivery conditions; components with electroplated coatings Fasteners, technical delivery conditions (with additions to ISO 3506); corrosion-resistant stainless steel lasteners.
DIN DIN DIN 1 ISO		Fasteners, technical delivery conditions; components made of non-ferrous metals Fasteners; technical delivery conditions; surface discontinuities on bolts and screws Screws, bolts, studs and nuts; designations, types and finishes Free cutting steels; technical delivery conditions Mechanical properties of fasteners; bolts, screws and studs 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) Lengths  $l_1 = 1 \, \text{mm}$  and 1,2 mm have been deleted since they have proved impracticable.
- e) The technical delivery conditions have been amended.
- f) The content of the standard has been editorially revised.
- g) The example of designation has been amended.

## International Patent Classification

F16B 23/00

F 16 B 35/00