UDC 621.882.215.1.092.4

September 1986

Slotted shoulder screws

<u>DIN</u> 927

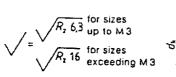
Zapfenschrauben mit Schlitz

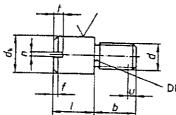
Supersedes August 1972 edition.

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





DIN 78-K or DIN 78-L thread ends, at the manufacturer's discretion.

DIN 76-A thread undercut

u (incomplete thread); 1,5 P maximum.

Thread size d		M 1	M 1,2	M 1,4	M 1,6	M 2	M 2,5	M 3	(M 3,5)	M 4	M 5	M 6	
P¹)	<u> </u>	 '	0.25	0,25	0,3	0.35	0.4	0,45	0.5	0,6	0.7	0.8	1
ь	$\overline{\text{uiu}} = 0$	nominal size	1.8	1,8	2,2	2,5	2,8	3,5	4,5	5.5	6	7	8
_	max, .		2,05	2.05	2,45	2,75	3,05	3.8	4,8	5,8	6.3	7.36	8.36
d.	max = D	nominal size	1,6	1.8	2	2,2	2.8	3,5	4	4.5	5,5	6,5	8
_	mia,	1	1,575	1,775	1,975	2,175	2,775	3.47	3,97	4.47	5,47	6,464	7,964
2)	max.		0,2	0,2	0.25	0.3	0,4	0.5	0,5	0,7	0,8	0,8	1,50-
	Nomina	al size	0,2	0.25	0.25	0.3	0,3	0.4	0,5	0.5	0.6	0.8	1
n	пъв.		0.26	0,31	0,31	0.36	0,36	0,46	0.56	0.56	0,66	0.86	1.06
	max		0.4	0,45	0,45	0.5	0.5	0.6	0.7	0.36	0,86	1	
_	min.		0.4	0.4	0,48	0.56	0.64	0.72	0,8	0,7			1,2
1	max		0.52	0.52	0,63	0.74	0.84	0.95	1.05	1,21	1,12	1,28	1,6 2
_	1,2		- 	1									
	1,6 2	js 15		:								[
<u>-</u>	2,5	for Land b	<u>l</u>	·		<u> </u>							
	5					L						L	·
	6				1 .	!	1	1		i	j		

Sizes and intermediate lengths given in brackets should be avoided it possible. Slotted shoulder screws are normally manufactured in the range indicated by stepped lines.

)) P = pitch of thread (coarse pitch thread)

 2) $f_{\rm min} = 0.5 f_{\rm max}$

Continued on pages 2 and 3

2 Technical delivery conditions

M	aterial	Steel	Stainless steel	Non-ferrous metal			
General requirem	ents	As specified in DIN 267 Part 1					
Thread	Tulerance class	For sizes up to and including M1,4, 4h, from size M1,6, 6g.					
· · · · · · · · ·	Standard	DIN 13 Part 15					
Mechanical properties 1)	Property class (material)	14H ¹)	A1-50 C4-50	CuZn = copper-zino alloy?)			
properties ()	Standard	ISO 898 Part 5	DIN 267 Part II	DIN 267 Part 18			
Permissible dimensional Product grade deviations and		For sizes up to and including M1.4 F; from size M1.6. A					
leviations of form	Standard	DIN 267 Part 6: ISO 4759 Part 1					
ypes and finishes with o be stated on ordering			As specified in DIN 962.				
		As processed.	Bright.	Bright.			
Surface finish			all apply with regard to so ly with regard to permissible shall apply with regard to				
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 for sizes not exceeding (4.5%;

for sizes exceeding M 4, 6%.

3 Designation

Designation of an M2 slotted shoulder screw, of shoulder length l = 2.5 mm, assigned to property class 14H 1): Shoulder screw DIN 927 - M 2 \times 2,5 - 14H

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.

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

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Standards referred to

DIN	13 Part 15	ISO metric screw threads: fundamental devices:
DIN	76 Part 1	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 to
DIN	78	The street of th
DIN	267 Part 1	Thread ends; lengths of projection of thread ends for ISO metric screw threads as defined in DIN 13 Fasteners; technical delivery conditions; general requirements
DIN	267 Part 2	Fasteners: technical delivery conditions, types at the conditions type at the c
DIN	267 Part 5	Fasteners: technical delivery conditions; types of finish and dimensional accuracy
DIN	267 Part 6	Fasteners; technical delivery conditions; acceptance inspection (modified version of ISO 3269, 1984 edition)
DIN	267 Part 9	Fasteners; technical delivery conditions; types of finish and dimensional accuracy for product grade F
DIN	267 Part 11	Fasteners: technical delivery conditions; components with electroplated coatings
		Fasteners; technical delivery conditions (with additions to ISO 3506); corrosion-resistant stainless steel tasteners
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 factories and annual delivery conditions
		Mechanical properties of fasteners; set screws and similar threaded fasteners not under tensile stresses. Tolerances for fasteners; bolts, screws and puts with the
		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

10.42, 01.43, 08.53, 08.72.

Amendments

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

- a) Size M1,8 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

F16B 23/00

F 16 B 35/00