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December 1990

Plain washers

for tapping screw and washer assemblies

Scheiben für Kombi-Blechschrauben

Supersedes December 1972 edition.

9:47

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

Type B

1 Scope and field of application

Washers as specified in this standard are intended for use with DIN 6901 tapping screw and washer assemblies.

2 Dimensions

Type A





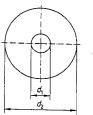




Table 1.

Nom- inal size	Clearance hole diameter, d ₁ min. = 1 max.		Outside diameter, d ₂				Thickness, h						Approximate		
			Type A max. = r min.		Type B		Type A			Туре В			mass (7,85 kg/dm ³),		For thread
	nom- inal	om- inal	nom- inal	,	nom- inal	Nom- inal	max.	min.	Nom- inal	max.	min.	per 1000 units, in kg	size		
	size	<u> </u>	size		size		size			size			Type A	Type B	
2,5	2,5	2,6	7	6,78	9	8,78	1	1,06	0,94	1	1,06	0,94	0,26	0,46	ST 2,9
3	3	3,1	8	7,78	11	10,73	1	1,06	0,94	1	1,06	0,94	0,34	0,69	ST 3,5
3,3	3,3	3,42	9	8,78	12	11,73	1	1,06	0,94	1	1,06	0.94	0,43	0,82	ST 3,9
3,55	3,55	3,67	9	8,78	12	11,73	1	1.06	0.94	1	1.06	0,94	0,42	0,81	ST 4,2
4	4	4,12	10	9,78	15	14,73	1	1,06	0,94	1,6	1,68	1,52	0,52	2,06	ST 4,8
4,7	4,7	4,82	12	11,73	15	14,73	1,6	1,68	1,52	1,6	1.68	1,52	1,20	2,00	ST 5,5
5,4	5,4	5,52	14	13,73	18	17,73	1,6	1,68	1,52	1,6	1,68	1,52	1,65	2,91	ST 6,3
7,15	7,15	7,3	16	15,73	24	23,67	1,6	1,68	1,52	2	2,09	1,91	2,02	6,47	ST 8

Continued on page 2

Fax:062084389

Aug 17 2001

P. 02/02

Page 2 DIN 6903

3 Technical delivery conditions

Table 2.

Mechanical properties ¹)	Material	Steel: St 2 K 60. Minimum hardness 180 HV 10.					
	As specified in	DIN 1624.					
Geometrical tolerances	Product grade	F					
Commence tolerances	As specified in	DIN 522.					
Surface condition		Bright. DIN 267 Part 9 shall apply with regard to electroplating ar DIN 522 (product grade A), with regard to surface roughnes					
Acceptance inspection		DIN 522 shall apply with regard to acceptance inspection.					

The specifications for mechanical properties of washers relate to their as delivered condition and may change as the
assembly is subjected to heat treatment. The C content of the steel shall not exceed 0,1%.

4 Designation

Designation of a type A washer of nominal size 4,7 and a minimum hardness of 180 HV 101):

Washer DIN 6903 - A 4,7 - 180 HV

The DIN 4000-3-1 tabular layout of article characteristics shall apply for washers as covered in this standard.

The specifications of this standard relevant to the CAD standard parts file have been summarized in DIN V 4001 Part 15.

Standards referred to

DIN 267 Part 9 Fasteners; technical delivery conditions; electroplated parts

DIN 522 Metal washers; technical delivery conditions

DIN 1624 Steel flat products; cold reduced mild unalloyed steel strip in widths not exceeding 650 mm; technical delivery

conditions

DIN 4000 Part 3 Tabular layouts of article characteristics for washers

DIN V 4001 Part 15 CAD standard parts file; specification for geometry and parameters; plain and curved washers

DIN 6901 Tapping screw and washer assemblies

Previous editions

i icribus editions

DIN 6903: 09.66, 12.72.

Amendments

The following amendments have been made to the December 1972 edition.

- a) Nominal size 2,5 has been included for size ST 2,9 assemblies.
- b) Limits of size are now included.
- c) For d_2 for nominal size 4.7 (type A), a value of 12 mm has been specified instead of 12,5 mm.
- d) For d₂ for nominal size 7,15, a value of 16 mm (instead of 14 mm) has been specified for type A and 24 mm (instead of 21 mm), for type B.
- e) A different material has been specified.
- f) The geometrical tolerances shall be those specified for product grade F instead of grade A (cf. DIN 522).
- g) The designation has been amended.
- h) The standard has been editorially revised.

International Patent Classification

F 16 B 43/00

¹⁾ A hardness of 180 HV 10 shall also be used where no material or only 'St' is specified in existing documentation.