Square taper washers

for high-strength structural bolting of steel I sections

<u>DIN</u> 6917

Scheiben, vierkant, keilförmig, für HV-Schrauben an I-Profilen in Stahlkonstruktionen

Supersedes March 1979 edition.

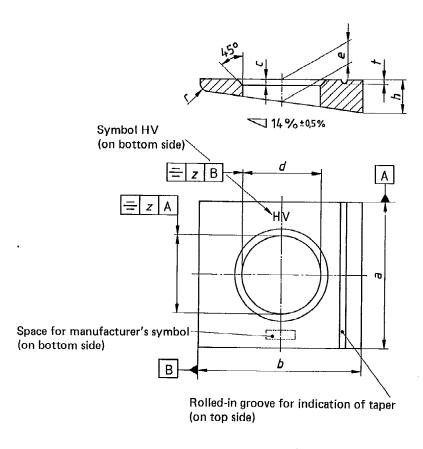
In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

Dimensions in mm

1 Scope and field of application

Washers as specified in this standard are intended for use in GV and SL structural bolting of steel I sections in accordance with DIN 18 800 Part 1, together with DIN 6914 screws and DIN 6915 nuts.

2 Dimensions



Continued on pages 2 and 3

Table 1.																			
Nominal	For thread	li di E	p		a			D		S II.		<i>e</i> -)		, u		L	7	N	Mass (7,85 kg/dm³), in kg
size ²)	size .		тах.	Nom- inal size	min.	тах.	Nom- inal size	min.	max.	nom- inal size	max.		Nom- inal size	min.	max.	¥	₹		per 1000 units, ≈
13	M 12	13	13,43	26	24	58	30	29,35	30,65	1,6	1,9	4,1	6,2	വ	7,4	1,6	2,0	1,68	20,4
17	M16	17	17,43	32	29,5	34,5	36	35,20	36,80	1,6	1,9	5	7,5	6,3	8,7	2	8'0	2	35,7
21	M20	21	21,52	40	37,5	42,5	44	43,20	44,80	2	2,5	6,1	9,2	8	10,4	2,4	6'0	2	66,5
23	M 22	23	23,52	44	41,5	46,5	20	49,20	50,80	2.	2,5	6,5	10	8,8	11,2	2,4	-	2	8'68
25	M24	25	25,52	56	53	59	99	55,05	56,95	0	2,5	6'9	10,8	6,3	12,3	2,4	1	3,8	142
28	M27	28	28,52	56	53	29	56	55,05	56,95	2,5	3	6'9	10,8	9,3	12,3	2,4	₩	3,8	134
31	M30	.£	32	62	59	65	. 62	61,05	62,95	2,5	3	2,7	11,7	10,2	13,2	2,4	-	3,8	174
37	M36	37	38	89	65	71	89	67,05	68,95	3	3,5	8	12,5	11	14	2,4	-	3,8	210
1) $e = h$ 2) Nom	1) $e=h$ (nominal size) $-0.07b$ (nominal size). 2) Nominal size is equal to d_{\min} .	size) – equal t	0,07 b	(nomin	al size).														

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3 Technical delivery conditions

3.1 Material

Washers shall be in steel as specified in DIN 17 200, quenched and tempered to a hardness of from 295 to 350 HV 10 (e.g. C 45 steel), at the manufacturer's discretion.

3.2 Surface finish

Washers shall have a bright surface finish, be free from burr, and be hot dip galvanized as specified in DIN-267 Part 10.

3.3 Acceptance inspection

Acceptance inspection shall be undertaken on the lines of DIN 267 Part 5.

The specifications given in table 2 shall apply for the major characteristics and the acceptable quality level (AQL).

Table 2,

Majorcharacteristic	AQL value
Hole diameter	1,5
Concentricity	1,5
Taper angle	1,5

4 Designation

Designation of a nominal size 21 washer for use with steel I sections:

Washer DIN 6917 — 21

5 Marking

Washers shall be marked on their bottom side with the manufacturer's symbol and symbol HV.

Standards referred to

DIN	267 Part 5	Fasteners; technical delivery conditions; acceptance inspection (modified version of ISO 3269, 1984 edition)
DIN	267 Part 10	Fasteners; technical delivery conditions, hot-dip galvanized components
DIN	6914	High-strength hexagon head bolts with large widths across flats for structural steel bolting
DIN	6915	High-strength hexagon nuts with large widths across flats for structural steel bolting
DIN	17 200	Steels for quenching and tempering; technical delivery conditions
DIN '	18 800 Part 1	Steel structures; design and construction

Previous editions

DIN 6917: 08.62, 12.70, 03.79.

Amendments

The following amendments have been made to the March 1979 edition.

- a) Limits of size are now specified.
- b) Use of materials as specified in DIN 17 200 that are comparable with C 45 has been permitted.
- c) Washers are now to be quenched and tempered, as opposed to hardened (as specified before).
- d) Washers are now to be hot dip galvanized as specified in DIN 267 Part 10.
- e) Washers are now to be subjected to acceptance inspection as specified in DIN 267 Part 5 has been included.
- f) A specification regarding marking with the manufacturer's symbol has been included.
- g) The standard has been editorially revised.

International Patent Classification

E 04 B 1/38

F 16 B 43/00