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# UDC 621.882,443

October 1989

Į		October 190
	Square taper washers	DIN
I	for high-strength structural bolting of steel I sections	6917

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

Supersedes March 1979 edition.

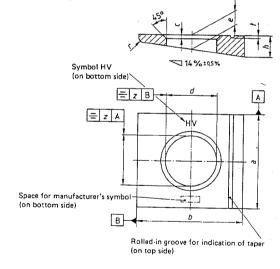
In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

### 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

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			,	,						
Mass (7,85 kg/dm³), in kg per 1000 units, ≈		20,4	35,7	66,5	8,88	142	134	174	210	
~		1,68	2	2	2	3,8	3,8	3,8	3,8	
•	ų	7,0	8'0	6'0	-	-	-	-	-	
s.,	R	1,6	2	2,4	2,4	2,4	2,4	2,4	2,4	
	тах.	7,4	8,7	10,4	11,2	12,3	12,3	13,2	14	
ų	min.	5	6,3	80	8,8	6,3	6,3	10,2	ш	
	Nom- inaf size	6,2	7,5	9,2	5	10,8	10,8	11,7	12,5	
e <sup>1</sup> )		4,1	5	6,1	6,5	6'9	6'9	2'2	8	
v	тах.	1,9	1,9	2,5	2,5	2,5	3	3	3,5	
II É	nom- inal size	1'9	1,6	2	2	2	2,5	2,5	6	
`	Bax.	30,65	36,80	44,80	50,80	56,95	56,95	62,95	68,95	
p	min.	29,35	35,20	43,20	49,20	55,05	55,05	61,05	67,05	
	Nom- inal size	30	96	44	20	56	26	62	89	
	тах.	28	34,5	42,5	46,5	59	59	65	7.1	
ø	ain.	24	29,5	37,5	41,5	53	53	59	65	ıl size).
	Nom- inal size	56	32	40	44	26	56	62	89	nomin
q	шах.	13,43	17,43	21,52	23,52	25,52	28,52	32	38	),07 b (
ë	nom- inal size	5	17	21	23	25	28	31	37	ize) – ( equal to
For thread	size	M 12	M 16	M 20	M 22	M 24	M27	M30	M36	1) $e = h$ (nominal size) – 0,07 $b$ (nominal size) 2) Nominal size is equal to $d_{\min}$ .
Nominal	1-9718	13	17	21	23	25	78	31	37	1) e = h 2) Nomir

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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.

Major characteristic	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

Part 5 Fasteners; technical delivery conditions; acceptance inspection (modified version of ISO 3 edition)	269, 1984
DIN 267 Part 10 Fasteners; technical delivery conditions, hot-dip galvanized components	
DIN 6914 High-strength hexagon had believed to the paivanized components	
DIN 6914 High-strength hexagon head bolts with large widths across flats for structural steel bolting	
right strength nexagon nuts with large widths across flats for structural steel bolding	
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