

Dimensions for washers and rings

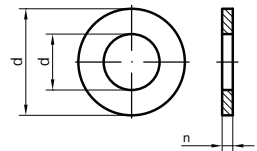


Plain washers (round)

Pk = product (tolerance) class

A = medium

C = coarse



Tolerances for washers acc. to ISO 4759-3 (DIN 522)

General overview of "plain washers for general uses" → ISO 887

Nominal size = for screws		EN 14399-6 (Pk A) DIN 34820 (Pk A)*			DIN 7349 (Pk A) -			DIN 7989-1 (Pk C) DIN 7989-2 (Pk A)			ISO 7093-1,2 (DIN 9021 Pk A/Pk C)		
M	Ww	d ₁	d ₂	h	d ₁	d ₂	h	d ₁	d ₂	h	d ₁	d ₂	h
3					3.2	9	1				3.2	9	0.8
3.5											3.7	11	0.8
4	*1/8"				4.3	12	1.6				4.3	12	1
5	*3/16"				5.3	15	2				5.3	15	1.2
6					6.4	17	3				6.4	18	1.6
7	*1/4"										7.4	22	2
8	*5/16"				8.4	21	4				8.4	24	2
10	*3/8"				10.5	25	4	11	20	8	10.5	30	2.5
12	*7/16"	13	24	3 (2.5)	13	30	6	13.5	24	8	13	37	3
	*1/2"												
14		15	36	6							15	44	3
16	*5/8"	17	30	4 (3)	17	40	6	17.5	30	8	17	50	3
18					19	44	8				20	56	4
20	*3/4"	21	37	4 (3)	21	44	8	22	37	8	22	60	4
22	*7/8"	23	39	4 (3)	23	50	8	24	39	8	23/24	66	5
24		25	44	4 (4)	25	50	10	26	44	8	26	72	5
27	*1"	28	50	5 (4)	28	60	10	30	50	8	30	85	6
30	*1 1/8"	31	56	5 (4)	31	69	10	33	56	8	33	92	6
33	*1 1/4"							36	60	8	36	105	6
36	*1 3/8"	37	66	6 (5)				39	66	8	39	110	8

Nominal size = screws/pins		DIN 1052 (Pk C) -			DIN 1440 (Pk C) DIN 1441 (Pk C)*			DIN 988 -S (Pk C) -			Art. 88104 (Pk C) -		
M/Ø	Ww	d ₁	d ₂	h	d ₁	d ₂	h	d ₁	d ₂	h	d ₁	d ₂	h
3								3	6	1	3.2	20	1.25
3.5													
4	*1/8"							4	8	1	4.3	15/20/25	1.25
5	*3/16"				5 (5.5)	10	0.8				5.3	20/25/30	1.5
6					6 (7)	12	1.6	6	12	1.2	6.4	20/25/30/35	1.5
7	*1/4"				7 (8)	14	1.6						
8	*5/16"				8 (9)	16	2	8	14	1.2	8.4	20/25/30/35/40	1.5
10	*3/8"				10 (11)	20	2.5	10	13	1.2	10.5	25/30/35/40	1.5
12	*7/16"	14	58	6	12 (13)	25	3	12	18	1.2	12.5	30/35/40	1.5
	*1/2"												
14					14 (15)	28	3	14	20	1.5			
15								15	21	1.5			
16	*5/8"	18	68	6	16 (17)	28	3	16	22	1.5			
17								17	24	1.5			
18					18 (19)	30	4	18	25	1.5			
20	*3/4"	23	80	8	20 (21)	32	4	20	28	2			
22	*7/8"	25	92	8	22 (23)	34	4	22	30/32	2			
24		27	105	8	24 (25)	38	4						
25								25	35/36	2			
26								26	37	2			
27	*1"				27 (28)	40	5						
28								28	40	2			
30	*1 1/8"				30 (31)	45	5	30	42	2.5			
33	*1 1/4"				33 (34)	50	5						

Continued → TI-52