

Washer DIN Tables

SHRI PARVATI INDUSTRIES

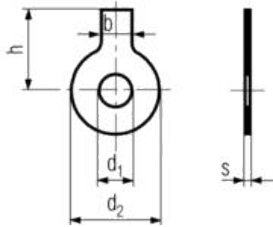
Dimensional tables and washer geometry organised by DIN reference. Select the required washer type, material condition and approved drawing before quotation. This catalogue is not a certificate of conformity or a stock list.

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DIN 93

Tab washers with long tab

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

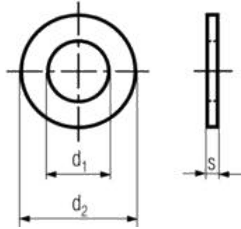


d1	used for	d2	b	h	s
3.2	M3	12	4	13	0.38
4.3	M4	14	5	14	0.38
5.3	M5	17	6	16	0.5
6.4	M6	19	7	18	0.5
8.4	M8	22	8	20	0.75
10.5	M10	26	10	22	0.75
13	M12	30	12	28	1
15	M14	33	12	28	1
17	M16	36	15	32	1
19	M18	40	18	36	1
21	M20	42	18	36	1
23	M22	50	20	42	1
25	M24	50	20	42	1
28	M27	58	23	48	1.6
31	M30	63	26	52	1.6
34	M33	68	28	56	1.6
37	M36	75	30	60	1.6
40	M39	82	32	64	1.6
43	M42	88	35	70	1.6
50	M48	100	40	80	1.6
54	M52	105	44	85	1.6

DIN 125

Plain washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

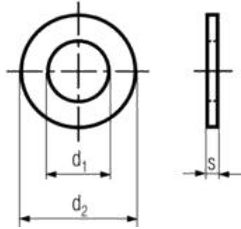


d1	for thread size	d2	s
1.7	M1.6	4	0.3
2.2	M2	5	0.3
2.7	M2.5	6	0.5
3.2	M3	7	0.5
3.7	M3.5	8	0.5
4.3	M4	9	0.8
5.3	M5	10	1
6.4	M6	12	1.6
7.4	M7	14	1.6
8.4	M8	16	1.6
10.5	M10	20	2
13	M12	24	2.5
15	M14	28	2.5
17	M16	30	3
19	M18	34	3
21	M20	37	3
23	M22	39	3
25	M24	44	4
28	M27	50	4
31	M30	56	4
34	M33	60	5
37	M36	66	5
40	M39	72	6
43	M42	78	7
50	M48	92	8
54	M52	98	8

DIN 126

Plain washers without chamfer

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

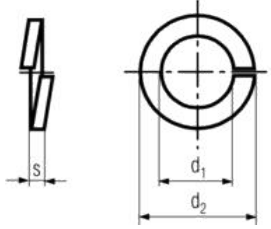


d1	used for	d2	s
5.5	M5	10	1
6.6	M6	12	1.6
7.6	M7	14	1.6
9	M8	16	1.6
11	M10	20	2
13.5	M12	24	2.5
15.5	M14	28	2.5
17.5	M16	30	3
22	M20	37	3
26	M24	44	4
30	M27	50	4
33	M30	56	4
36	M33	60	5
39	M36	66	5
42	M39	72	6
45	M42	78	7
48	M45	85	7
52	M48	92	8
56	M52	98	8
62	M56	105	9
66	M60	110	9
70	M64	115	9

DIN 127

Split spring washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

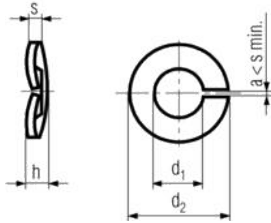


d1	for screw size	d2	s
2.1	M2	4.4	0.5
2.6	M2.5	5.1	0.6
3.1	M3	6.2	0.8
3.6	M3.5	6.7	0.8
4.1	M4	7.6	0.9
5.1	M5	9.2	1.2
6.1	M6	11.8	1.6
8.1	M8	14.8	2
10.2	M10	18.1	2.2
12.2	M12	21.1	2.5
14.2	M14	24.1	3
16.2	M16	27.4	3.5
18.2	M18	29.4	3.5
20.2	M20	33.6	4
22.5	M22	35.9	4
24.5	M24	40	5
27.5	M27	43	5
30.5	M30	48.2	6
33.5	M33	55.2	6
36.5	M36	58.2	6
39	M38	61.2	6
42.5	M42	68.2	7
45.5	M45	71.2	7
49	M48	75	7
53	M52	86	8

DIN 128

Flat spring washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

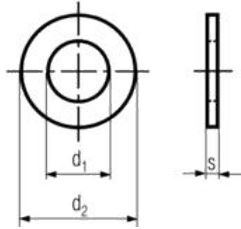


d1	for screw size	d2	s	h min	h max
2.1	M2	4.4	0.5	0.7	0.9
2.6	M2.5	5.1	0.6	0.9	1.1
3.1	M3	6.2	0.7	1.1	1.3
3.6	M3.5	6.7	0.7	1.1	1.3
4.1	M4	7.6	0.8	1.2	1.4
5.1	M5	9.2	1	1.5	1.7
6.1	M6	11.8	1.3	2	2.2
8.1	M8	14.8	1.6	2.45	2.75
10.2	M10	18.1	1.8	2.85	3.15
12.2	M12	21.1	2.1	3.35	3.65
14.2	M14	24.1	2.4	3.9	4.3
16.2	M16	27.4	2.8	4.5	5.1
18.2	M17	29.4	2.8	4.5	5.1
20.2	M20	33.6	3.2	5.1	5.9
22.2	M21	35.9	3.2	5.1	5.9
24.5	M24	40	4	6.5	7.5
30.5	M30	48.2	6	9.5	10.5

DIN 433

Plain washers with reduced outside diameter

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

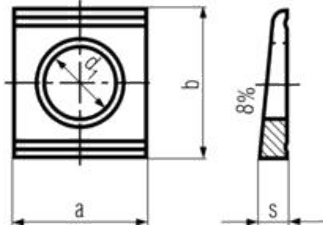


d1	used for	d2	s
1.9	M1.8	4	0.3
2.2	M2	4.5	0.3
2.7	M2.5	5	0.5
3.2	M3	6	0.5
3.7	M3.5	7	0.5
4.3	M4	8	0.5
5.3	M5	9	1
6.4	M6	11	1.6
8.4	M8	15	1.6
10.5	M10	18	1.6
13	M12	20	2
15	M14	24	2.5
17	M16	28	2.5
19	M18	30	2.5
21	M20	34	3

DIN 434

Taper washers for U sections

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

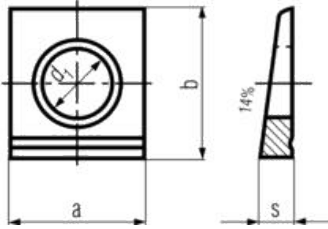


d1	used for	a	b	s
9	M8	22	22	3.8
11	M10	22	22	3.8
14	M12	26	30	4.9
18	M16	32	36	5.9
22	M20	40	44	7
24	M22	44	50	8
26	M24	56	56	8.5
30	M27	56	56	8.5
33	M30	62	62	9

DIN 435

Taper washers for I sections

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

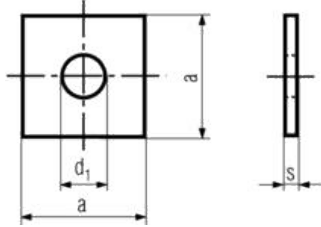


d1	used for	a	b	s
9	M8	22	22	4.6
11	M10	22	22	4.6
14	M12	26	30	6.2
18	M16	32	36	7.5
22	M20	40	44	9.2
24	M22	44	50	10
26	M24	56	56	10.8
30	M27	56	56	10.8
33	M30	62	62	11.7

DIN 436

Square washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

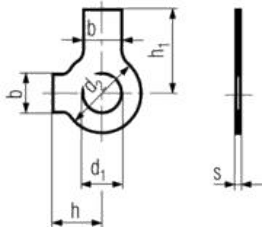


d1	for screw	a	s
11	M10	30	3
13.5	M12	40	4
17.5	M16	50	5
22	M20	60	5
24	M22	70	6
26	M24	80	6
30	M27	90	6
33	M30	95	6
36	M35	100	6
39	M38	110	8
42	M41	125	8
45	M44	135	8
48	M47	140	8
52	M51	150	10
56	M55	160	10

DIN 463

Tab washers with long and short tabs

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

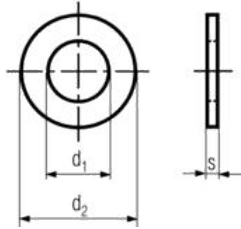


d1	used for	d2	h1	h	b	s
3.2	M3	7	13	5	4	0.38
4.3	M4	9	14	6.5	5	0.38
5.3	M5	10	16	8	6	0.5
6.4	M6	12.5	18	9	7	0.5
8.4	M8	17	20	11	8	0.75
10.5	M10	21	22	13	10	0.75
13	M12	24	28	15	12	1
15	M14	28	28	16	12	1
17	M16	30	32	18	15	1
21	M20	37	36	21	18	1
25	M24	44	42	25	20	1
28	M27	50	48	29	23	1.6
31	M30	56	52	32	26	1.6
34	M33	60	56	34	28	1.6
37	M36	66	60	38	30	1.6

DIN 988

Shim washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

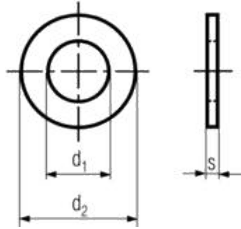


d1	d2	s
M3	6	0.1, 0.2, 0.3, 0.5
M4	8	0.1, 0.2, 0.3, 0.5
M5	10	0.1, 0.2, 0.3, 0.5
M6	12	0.1, 0.2, 0.3, 0.5, 1
M8	14	0.1, 0.2, 0.3, 0.5, 1
M10	16	0.1, 0.2, 0.3, 0.5, 1
M11	17	0.1, 0.2, 0.3, 0.5
M12	18	0.1, 0.2, 0.3, 0.5, 1
M13	19	0.1, 0.2, 0.3, 0.5, 1
M15	21	0.1, 0.2, 0.3, 0.5, 1
M16	22	0.1, 0.2, 0.3, 0.5, 1
M17	24	0.1, 0.2, 0.3, 0.5, 1
M18	25	0.1, 0.2, 0.3, 0.5, 1
M20	28	0.1, 0.2, 0.3, 0.5, 1, 1.5
M22	30	0.1, 0.2, 0.3, 0.5, 1, 1.5
M25	35	0.1, 0.2, 0.3, 0.5, 1, 1.5
M30	42	0.1, 0.2, 0.3, 0.5, 1, 1.5, 2
M35	45	0.1, 0.2, 0.3, 0.5, 1, 1.5
M40	50	0.1, 0.2, 0.3, 0.5, 1, 1.5

DIN 1052

Plain washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

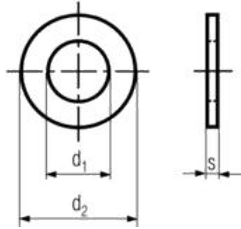


d1	used for	d2	s
14	M12	58	6
18	M16	68	6
23	M20	80	8
25	M22	92	8
27	M24	105	8

DIN 1440

Plain washers medium series

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

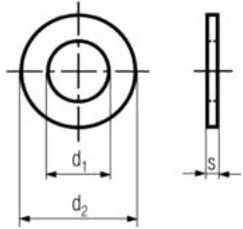


d1	d2	s
M3	6	0.8
M4	8	0.8
M5	10	0.8
M6	12	1.6
M7	14	1.6
M8	16	2
M10	20	2.5
M12	25	3
M13	25	3
M14	28	3
M16	28	3
M18	30	4
M20	32	4
M22	34	4
M23	36	4
M25	40	4
M26	40	5
M28	42	5
M30	45	5
M32	50	5
M33	50	5
M35	52	6
M36	52	6
M40	58	6
M45	62	7
M50	68	8

DIN 1441

Plain washers coarse series

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

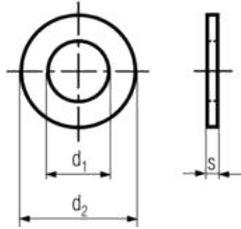


d1	d2	s
5.5	10	0.8
7	12	1.6
9	16	2
11	20	2.5
13	25	3
15	28	3
17	28	3
19	30	4
21	32	4
23	34	4
24	36	4
25	38	4
26	40	4
27	40	5
28	40	5
29	42	5
31	45	5
34	50	5
37	52	6
41	58	6
46	62	7
51	68	8
56	75	9
62	80	9
68	90	9
72	95	10

DIN 7989

Washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.

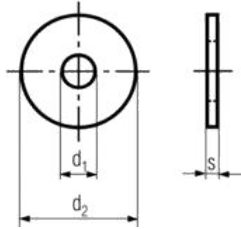


d1	used for	d2	s
11	M10	21	8
14	M12	24	8
18	M16	30	8
22	M20	37	8
26	M24	44	8
30	M27	50	8
33	M30	56	8

DIN 9021

Large outside diameter washers

Dimensions in mm unless explicitly labelled. Thread sizes are designations.



d1	used for	d2 max	s
3.2	M3	9	0.8
4.3	M4	12	1
5.3	M5	15	1.2
6.4	M6	18	1.6
8.4	M8	24	2
10.5	M10	30	2.5
13	M12	37	3
15	M14	44	3
17	M16	50	3
20	M18	56	4
22	M20	60	4

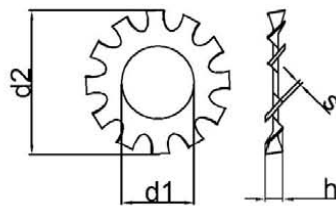
DIN 6797

Internally and externally toothed washers

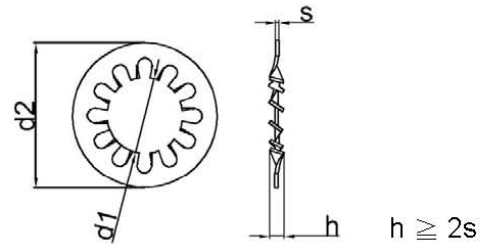
Dimensions in mm unless explicitly labelled. Thread sizes are designations.

DIN 6797

Type A externally toothed



Type J internally toothed



Nom. Size (Thread Size)	d1		d2		s nom.	min. number of teeth
	min	max	min	max		
M1.6	1.7	1.84	3.3	3.6	0.3	6
M2	2.2	2.34	4.2	4.5	0.3	6
M2.5	2.7	2.84	5.2	5.5	0.4	6
M3	3.2	3.38	5.7	6	0.4	6
M3.5	3.7	3.88	6.64	7	0.5	6
M4	4.3	4.48	7.64	8	0.5	8
M5	5.3	5.48	9.64	10	0.6	8
M6	6.4	6.62	10.57	11	0.7	8
M7	7.4	7.62	12.07	12.5	0.8	8
M8	8.4	8.62	14.57	15	0.8	8
M10	10.5	10.77	17.57	18	0.9	9
M12	13	13.27	19.98	20.5	1	10
M14	15	15.27	23.48	24	1	10
M16	17	17.27	25.48	26	1.2	12
M18	19	19.33	29.48	30	1.4	12
M20	21	21.33	32.38	33	1.4	12
M22	23	23.33	35.38	36	1.5	14
M24	25	25.33	37.38	38	1.5	14
M27	28	28.33	43.38	44	1.6	14
M30	31	31.39	47.38	48	1.6	14