

DIMENSIONAL, MATERIAL REQUIREMENTS AND MECHANICAL PROPERTIES OF FLAT, TOOTHED, CONICAL, BOWED AND WAVY WASHERS

Figure 5 Type A

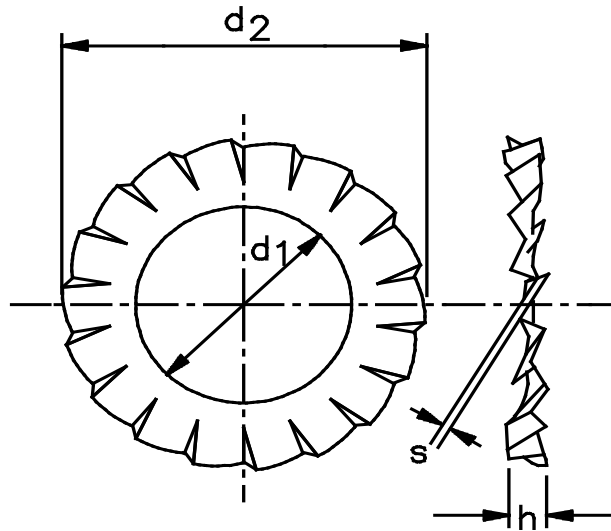


Table 5

Nominal Size (Thread Size d)	Clearance Hole d_1 (H14)		Outside Diameter d_2 (h15)		S		h1) Min.	Number of Teeth Min.	Compression Load N
	Nom. (Min.)	Max.	Nom. (Max.)	Min.	No m.	Tol. Max.			
1.6	1.7	1.95	3.7	3.22	0.3	+/- 0.03	0.6	8	-
2	2.	2.45	4.7	4.22	0.3	+/- 0.03	0.6	8	-
2.5	2.7	2.95	5.7	5.22	0.4	+/- 0.04	0.7	9	-
3	3.2	3.5	6.3	5.72	0.4	+/- 0.04	0.7	9	1560
4	4.3	4.6	8.3	7.72	0.5	+/- 0.04	0.9	11	2720
5	5.3	5.6	9.3	8.72	0.6	+/- 0.05	1	11	4400
6	6.4	6.76	11.3	10.6	0.7	+/- 0.05	1.1	12	6230
8	8.4	8.76	14.7	14	0.8	+/- 0.05	1.3	14	11400
10	10.5	10.93	18.4	17.56	0.9	+/- 0.05	1.4	16	18000
12	13	13.43	20.5	19.66	1	+/- 0.06	1.5	16	26100
16	17	17.43	26.4	25.56	1.2	+/- 0.07	1.8	18	48700
20	21	21.52	33	32	1.4	+/- 0.07	2	20	76000
24	25	25.52	38.4	37.4	1.5	+/- 0.08	2.2	20	109000
30	31	31.62	48.4	37.4	1.6	+/- 0.08	2.4	22	174000

1) Minimum value after compression test

Figure 6 Type B

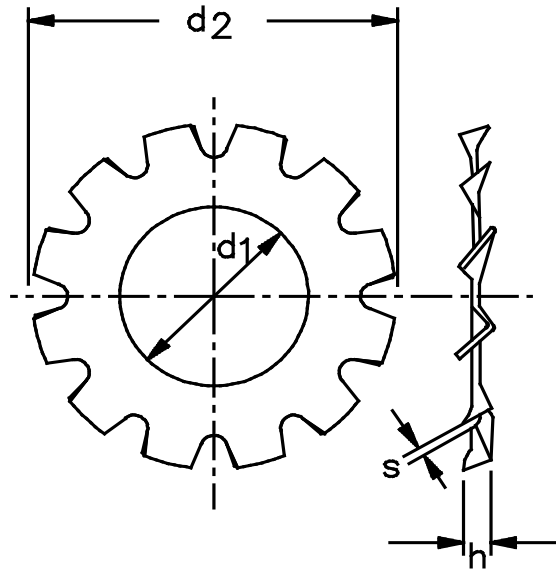


Table 6

Nominal Size (Thread Size d)	Clearance Hole d_1 (H14)		Outside Diameter d_2 (h15)		S		h1) Min.	Number of Teeth Min.	Compression Load N
	Nom. (Min.)	Max.	Nom. (Max.)	Min.	Nom.	Tol. Max.			
1.6	1.7	1.95	3.7	3.22	0.3	+/- 0.03	0.6	6	-
2	2.	2.45	4.7	4.22	0.3	+/- 0.03	0.6	6	-
2.5	2.7	2.95	5.7	5.22	0.4	+/- 0.04	0.7	6	-
3	3.2	3.5	6.3	5.72	0.4	+/- 0.04	0.7	6	1560
4	4.3	4.6	8.3	7.72	0.5	+/- 0.04	0.9	8	2720
5	5.3	5.6	9.3	8.72	0.6	+/- 0.05	1	8	4400
6	6.4	6.76	11.3	10.6	0.7	+/- 0.05	1.1	8	6230
8	8.4	8.76	14.7	14	0.8	+/- 0.05	1.3	8	11400
10	10.5	10.93	18.4	17.56	0.9	+/- 0.05	1.4	9	18000
12	13	13.43	20.5	19.66	1	+/- 0.06	1.5	10	26100
16	17	17.43	26.4	25.56	1.2	+/- 0.07	1.8	12	48700
20	21	21.52	33	32	1.4	+/- 0.07	2	12	76000
24	25	25.52	38.4	37.4	1.5	+/- 0.08	2.2	14	109000
30	31	31.62	48.4	37.4	1.6	+/- 0.08	2.4	14	174000

1) Minimum value after compression test

Figure 7 Type C

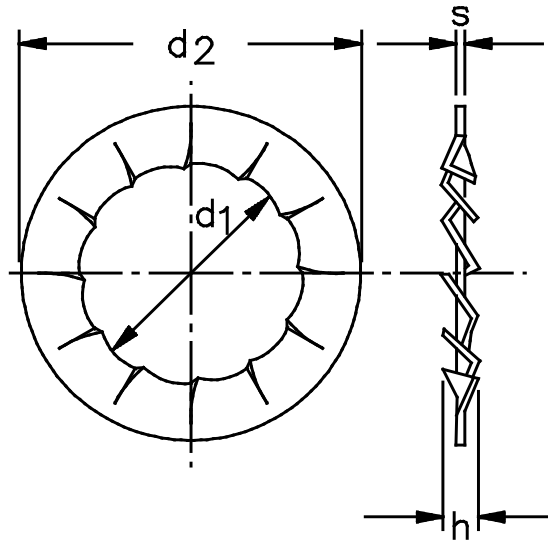


Table 7

Nominal Size (Thread Size d)	Clearance Hole d1 (H14)		Outside Diameter d2 (h15)		S		h1) Min	Numb er of Teeth Min.	Compres sion Load N
	Nom. (Min.)	Max.	Nom. (Max.)	Min.	No m.	Tol. Max.			
1.6	1.7	1.95	3.7	3.22	0.3	+/- 0.03	0.6	6	-
2	2.	2.45	4.7	4.22	0.3	+/- 0.03	0.6	6	-
2.5	2.7	2.95	5.7	5.22	0.4	+/- 0.04	0.7	7	-
3	3.2	3.5	6.3	5.72	0.4	+/- 0.04	0.7	7	1560
4	4.3	4.6	8.3	7.72	0.5	+/- 0.04	0.9	8	2720
5	5.3	5.6	9.3	8.72	0.6	+/- 0.05	1	8	4400
6	6.4	6.76	11.3	10.6	0.7	+/- 0.05	1.1	9	6230
8	8.4	8.76	14.7	14	0.8	+/- 0.05	1.3	10	11400
10	10.5	10.93	18.4	17.56	0.9	+/- 0.05	1.4	12	18000
12	13	13.43	20.5	19.66	1	+/- 0.06	1.5	12	26100
16	17	17.43	26.4	25.56	1.2	+/- 0.07	1.8	14	48700
20	21	21.52	33	32	1.4	+/- 0.07	2	16	76000
24	25	25.52	38.4	37.4	1.5	+/- 0.08	2.2	16	109000
30	31	31.62	48.4	37.4	1.6	+/- 0.08	2.4	18	174000

1) Minimum value after compression test