



Standard machine parts

MATERIAL

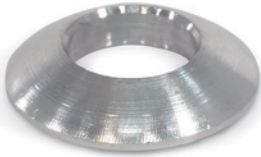
AISI 303 stainless steel.

STANDARD EXECUTIONS

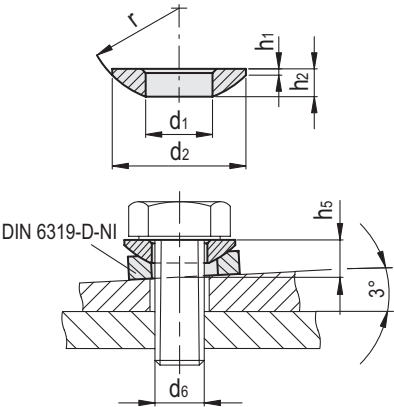
- **DIN 6319-C-NI**: convex washer.
- **DIN 6319-D-NI**: concave washer with $d_3 = d_2$.
- **DIN 6319-G-NI**: concave washer with $d_4 > d_2$.

FEATURES AND APPLICATIONS

DIN 6319-NI concave and convex washers are suitable for locking mechanical parts on non-parallel surfaces.



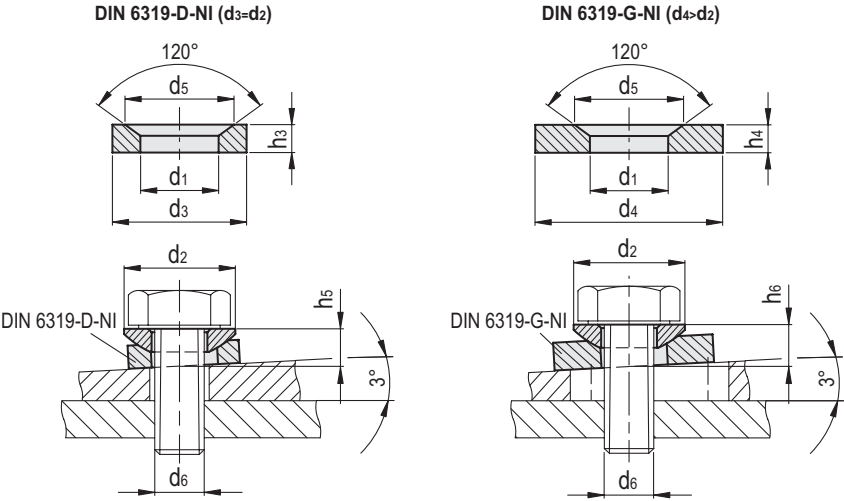
Conversion Table	
1 mm = 0.039 inch	
d1	
mm	inch
6.4	0.25
8.4	0.33
10.5	0.41
13	0.51
15	0.59
17	0.66
21	0.82
25	0.98
31	1.21
37	1.44
43	1.68
50	1.95



DIN 6319-C-NI

Code	Description	d1 H13	d2	d6 Screw	h1	h2	h5	r	Max static bolt force [kN]	⚖
GN.30832	DIN 6319-6,4-C-NI	6.4	12	M 6	0.7	2.3	4.2	9	6	3
GN.30836	DIN 6319-8,4-C-NI	8.4	17	M 8	0.6	3.2	5.6	12	10	4
GN.30842	DIN 6319-10,5-C-NI	10.5	21	M 10	0.8	4	6.5	15	17	9
GN.30846	DIN 6319-13-C-NI	13	24	M 12	1.1	4.6	8	17	25	8
GN.30852	DIN 6319-15-C-NI	15	28	M 14	1.2	5	8.5	22	34	11
GN.30856	DIN 6319-17-C-NI	17	30	M 16	1.3	5.3	9.6	22	47	10
GN.30862	DIN 6319-21-C-NI	21	36	M 20	2	6.3	11.7	27	73	22
GN.30866	DIN 6319-25-C-NI	25	44	M 24	2.4	8.2	15.2	32	105	43
GN.30872	DIN 6319-31-C-NI	31	56	M 30	3.6	11.2	19.2	41	168	110
GN.30876	DIN 6319-37-C-NI	37	68	M 36	4.6	14	23.5	50	245	190
GN.30882	DIN 6319-43-C-NI	43	78	M 42	6.5	17	29	58	336	305
GN.30886	DIN 6319-50-C-NI	50	92	M 48	8	21	35.5	67	441	540

Conversion Table	
1 mm = 0.039 inch	
d1	
mm	inch
7.1	0.28
9.6	0.37
12	0.47
14.2	0.55
16.5	0.64
19	0.74
23.2	0.90
28	1.09
35	1.37
42	1.64
49	1.91
56	2.18



DIN 6319-D-NI

INOX STAINLESS STEEL METRIC

Code	Description	d1 H13	d2	d3	d5	d6 Screw	h3	h5	Max static bolt force [kN]	⚖
GN.30902	DIN 6319-7,1-D-NI	7.1	12	12	11	M 6	2.8	4.2	6	4
GN.30906	DIN 6319-9,6-D-NI	9.6	17	17	14.5	M 8	3.5	5.6	10	5
GN.30912	DIN 6319-12-D-NI	12	21	21	18.5	M 10	4.2	6.5	17	6
GN.30916	DIN 6319-14,2-D-NI	14.2	24	24	20	M 12	5	8	25	10
GN.30922	DIN 6319-16,5-D-NI	16.5	28	28	24.8	M 14	5.6	8.5	34	441
GN.30926	DIN 6319-19-D-NI	19	30	30	26	M 16	6.2	9.6	47	18
GN.30932	DIN 6319-23,2-D-NI	23.2	36	36	31	M 20	7.5	11.7	73	33
GN.30936	DIN 6319-28-D-NI	28	44	44	37	M 24	9.5	15.2	105	61
GN.30942	DIN 6319-35-D-NI	35	56	56	49	M 30	12	19.2	168	110
GN.30946	DIN 6319-42-D-NI	42	68	68	60	M 36	15	23.5	245	230
GN.30952	DIN 6319-49-D-NI	49	78	78	70	M 42	18	29	336	360
GN.30956	DIN 6319-56-D-NI	56	92	92	82	M 48	22	35.5	441	640

DIN 6319-G-NI

Code	Description	d1 H13	d2	d4	d5	d6 Screw	h4	h6	Max static bolt force [kN]	⚖
GN.31002	DIN 6319-7,1-G-NI	7.1	12	17	11	M 6	4	5.4	6	6
GN.31006	DIN 6319-9,6-G-NI	9.6	17	24	14.5	M 8	5	7.1	10	14
GN.31012	DIN 6319-12-G-NI	12	21	30	18.5	M 10	5	7.3	17	21
GN.31016	DIN 6319-14,2-G-NI	14.2	24	36	20	M 12	6	9	25	38
GN.31019	DIN 6319-16,5-G-NI	16.5	28	40	24.8	M 14	6	9.5	34	47
GN.31022	DIN 6319-19-G-NI	19	30	44	26	M 16	7	10.4	47	64
GN.31026	DIN 6319-23,2-G-NI	23.2	36	50	31	M 20	8	12.2	73	92
GN.31032	DIN 6319-28-G-NI	28	44	60	37	M 24	10	15.7	105	165
GN.31036	DIN 6319-35-G-NI	35	56	68	49	M 30	12	19.7	168	190