



FULLER

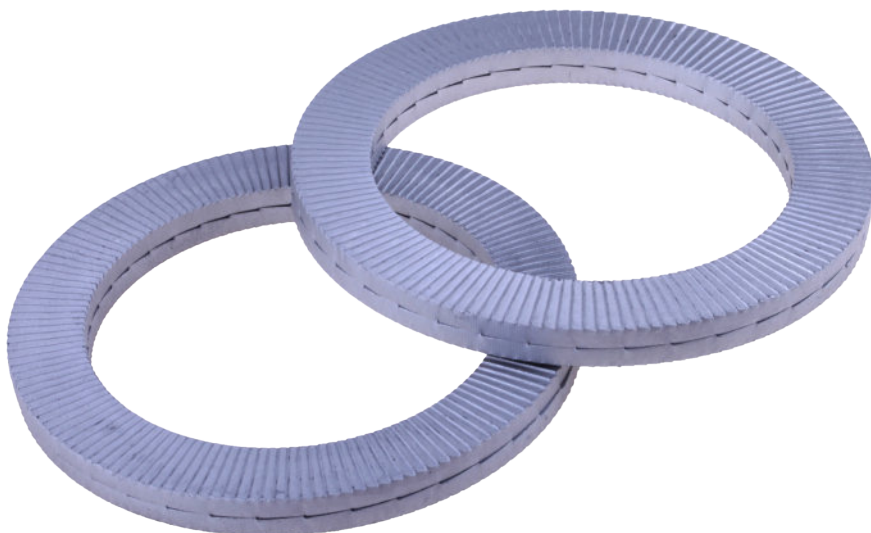
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Dual Lock Washers



Tolerances and mechanical specifications comparable to Nord-Lock®, Twin-Lock® and Heico-Lock® brand locking washers.

GEOMET® surface coating.

Metric sizes from M3 - M130
Inch sizes from #5 - 3"

METRIC AND INCH FASTENERS

STEEL

STAINLESS

BRASS

NYLON

- **HEX HEAD**
- **SOCKET HEAD**
- **WASHERS**
- **NUTS**
- **MACHINE SCREWS**
- **THREADED RODS**
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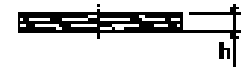
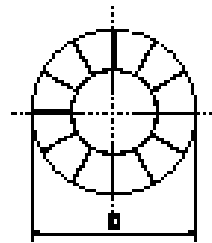
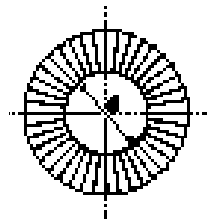
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Dual Lock Washers

Steel

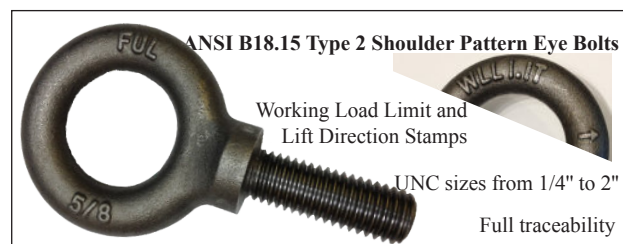
Sold in pairs*



WTL1 — Carbon Steel

Washer Size	Screw Size		d		D		h (per pair)		Package	FULLER #
			min	max	min	max	min	max		
3.4x7.0	M3	#5	3.3	3.5	6.8	7.2	1.55	2.05	100	WTL1-003-0000
3.9x7.6	M3.5	#6	3.8	4	7.4	7.8	1.55	2.05	100	WTL1-3.5-0000
3.9x9.0			3.8	4	8.8	9.2	1.55	2.05	100	WTL1-3.5-0001
4.4x7.6	M4	#8	4.3	4.5	7.4	7.8	1.55	2.05	100	WTL1-004-0000
4.4x9.0			4.3	4.5	8.8	9.2	1.55	2.05	100	WTL1-004-0001
5.4x9.0	M5	#10	5.3	5.5	8.8	9.2	1.55	2.05	100	WTL1-005-0000
5.4x10.8			5.3	5.5	10.6	11	1.55	2.05	100	WTL1-005-0001
6.5x10.8	M6		6.4	6.6	10.6	11	1.55	2.05	100	WTL1-006-0000
6.5x13.5			6.4	6.6	13.3	13.7	2.25	2.75	100	WTL1-006-0001
7.2x11.5		1/4"	7.1	7.3	11.3	11.7	1.55	2.05	100	WTL1-007-0000
7.2x13.5			7.1	7.3	13.3	13.7	2.25	2.75	100	WTL1-007-0001
8.7x13.5	M8	5/16"	8.6	8.8	13.3	13.7	2.25	2.75	100	WTL1-008-0000
8.7x16.6			8.6	8.8	16.4	16.8	2.25	2.75	100	WTL1-008-0001
10.3x16.6		3/8"	10.2	10.4	16.4	16.8	2.25	2.75	100	WTL1-009-0000
10.3x21.0			10.2	10.4	20.8	21.2	2.25	2.75	100	WTL1-009-0001
10.7x16.6	M10		10.5	10.9	16.4	16.8	2.25	2.75	100	WTL1-010-0000
10.7x21.0			10.5	10.9	20.8	21.2	2.25	2.75	100	WTL1-010-0001
11.4x18.5	M11	7/16"	11.2	11.6	18.3	18.7	2.25	2.75	100	WTL1-011-0000
13.0x19.5	M12		12.8	13.2	19.3	19.7	2.25	2.75	50	WTL1-012-0000
13.0x25.4			12.8	13.2	25.2	25.6	3.15	3.65	50	WTL1-012-0001
13.5x19.5		1/2"	13.3	13.7	19.3	19.7	2.25	2.75	50	WTL1-013-0000
13.5x25.4			13.3	13.7	25.2	25.6	3.15	3.65	50	WTL1-013-0001
15.2x23.0	M14	9/16"	15	15.4	22.8	23.2	3.15	3.65	50	WTL1-014-0000
15.2x30.7			15	15.4	30.5	30.9	3.15	3.65	50	WTL1-014-0001
17.0x25.4	M16	5/8"	16.8	17.2	25.2	25.6	3.15	3.65	25	WTL1-016-0000
17.0x30.7			16.8	17.2	30.5	30.9	3.15	3.65	25	WTL1-016-0001
19.5x29.0	M18		19.3	19.7	28.8	29.2	3.15	3.65	25	WTL1-018-0000
19.5x34.5			19.3	19.7	34.3	34.7	3.15	3.65	25	WTL1-018-0001
20.0x30.7		3/4"	19.8	20.2	30.5	30.9	3.15	3.65	25	WTL1-019-0000
20.0x39.0			19.8	20.2	38.8	39.2	3.15	3.65	25	WTL1-019-0001
21.4x30.7	M20		21.2	21.6	30.5	30.9	3.15	3.65	25	WTL1-020-0000
21.4x39.0			21.2	21.6	38.8	39.2	3.15	3.65	25	WTL1-020-0001
23.4x34.5	M22	7/8"	23.2	23.6	34.3	34.7	3.15	3.65	25	WTL1-022-0000
23.4x42.0			23.2	23.6	41.8	42.2	4.35	4.85	25	WTL1-022-0001

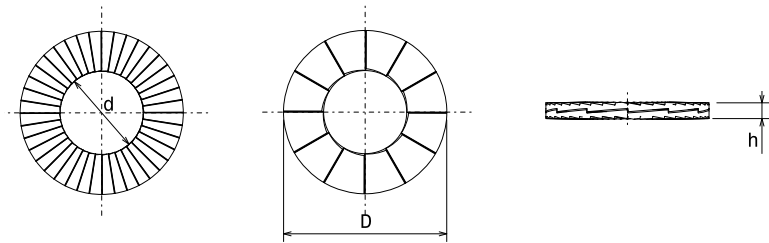
*Stocked up to M52. Please call us for availability on larger diameters.



Dual Lock Washers

Steel

Sold in pairs*



WTL1 — Carbon Steel

Washer Size	Screw Size		d		D		h (per pair)		Package	FULLER #
			min	max	min	max	min	max		
25.3x39.0	M24	1"	25.1	25.5	38.8	39.2	3.15	3.65	25	WTL1-024-0000
25.3x48.5			25.1	25.5	48.3	48.7	4.35	4.85	25	WTL1-024-0001
27.9x39.0	27.7		28.1	38.8	39.2	3.15	3.65	25	WTL1-025-0000	
27.9x48.5	27.7		28.1	48.3	48.7	4.35	4.85	25	WTL1-025-0001	
28.4x42.0	M27	1 1/8"	28.2	28.6	41.7	42.3	5.55	6.05	25	WTL1-027-0000
28.4x48.5			28.2	28.6	48.2	48.8	5.55	6.05	25	WTL1-027-0001
31.4x47.0	M30		31.2	31.6	46.7	47.3	5.55	6.05	5	WTL1-030-0000
31.4x58.5			31.2	31.6	58.2	58.8	6.35	6.85	5	WTL1-030-0001
34.4x48.5	M33	1 1/4"	34.2	34.6	48.2	48.8	5.55	6.05	5	WTL1-033-0000
34.4x58.5			34.2	34.6	58.2	58.8	6.35	6.85	5	WTL1-033-0001
37.4x55.0	M36	1 3/8"	37.2	37.6	54.7	55.3	6.35	6.85	5	WTL1-036-0000
37.4x63.0			37.2	37.6	62.7	63.3	6.35	6.85	5	WTL1-036-0001
40.4x58.5	M39	1 1/2"	40.2	40.6	58.2	58.8	6.35	6.85	5	WTL1-039-0000
43.2x63.0	M42	1 3/4"	43	43.4	62.7	63.3	6.35	6.85	5	WTL1-042-0000
46.2x70.0	M45		46.2	46.7	68	70	6.25	7.75	1	WTL1-045-0000
49.6x75.0	M48		49.6	50.1	73	75	6.25	7.75	1	WTL1-048-0000
53.6x80.0	M52	2"	53.6	54.1	78	80	6.25	7.75	1	WTL1-052-0000
59.1x85	M56	2 1/4"	59.1	59.6	83	85	6.25	7.75	1	WTL1-056-0000
63.1x90	M60	2 1/2"	63.1	63.6	88	90	8.75	10.25	1	WTL1-060-0000
67.1x95.0	M64		67.1	67.6	93	95	8.75	10.25	1	WTL1-064-0000
71.1x100.0	M68		71.1	71.6	98	100	8.75	10.25	1	WTL1-068-0000
75.1x105	M72	3"	75.1	75.6	103	105	8.75	10.25	1	WTL1-072-0000
79.1x110.0	M76		79.1	79.6	108	110	8.75	10.25	1	WTL1-076-0000
83.1x115.0	M80		83.1	83.6	113	115	8.75	10.25	1	WTL1-080-0000
88.1x120	M85		88.1	88.6	118	120	8.75	10.25	1	WTL1-085-0000
92.4x130	M90		92.4	92.9	128	130	8.75	10.25	1	WTL1-090-0000
97.4x135	M95		97.4	97.9	133	135	8.75	10.25	1	WTL1-095-0000
103.4x145	M100		103.4	103.9	143	145	8.75	10.25	1	WTL1-100-0000
108.4x150	M105		108.4	108.9	148	150	8.75	10.25	1	WTL1-105-0000
113.4x155	M110		113.4	113.9	153	155	8.75	10.25	1	WTL1-110-0000
118.4x165	M115		118.4	118.9	163	165	8.75	10.25	1	WTL1-115-0000
123.4x170	M120		123.4	123.9	168	170	8.75	10.25	1	WTL1-120-0000
128.4x173	M125		128.4	128.9	171	173	8.75	10.25	1	WTL1-125-0000
133.4x178	M130		133.4	133.9	176	178	8.75	10.25	1	WTL1-130-0000

*Stocked up to M52. Please call us for availability on larger diameters.

931-10.9 Large Diameter Hex Bolts with Extended Threads

These high quality fasteners are custom made from 4140 material with extended rolled threads. This allows these fasteners to be used for a larger range of length applications with minimal modification.

Where a length modification is required the threads do not have to be re-machined and the mechanical integrity of the fastener will be retained.



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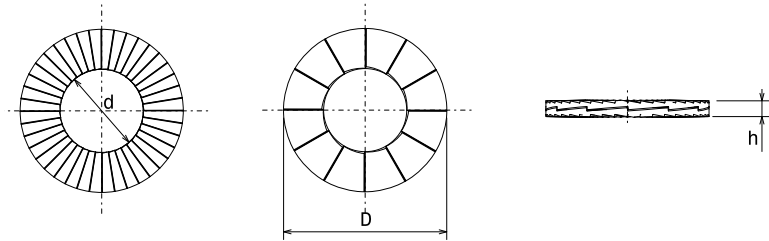
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Dual Lock Washers

Stainless

*Sold in pairs



WTL2 — 316 (A4) Stainless Steel

WTL3 — 304 (A2) Stainless Steel

Washer Size	Screw Size		d		D		h (per pair)		Package	Stainless AISI 316 (A4)	Package	Stainless AISI 304 (A2)
			min	max	min	max	min	max		FULLER #		FULLER #
3.4x7.0	M3	#5	3.3	3.5	6.8	7.2	1.95	2.45	100	WTL2-003-0000	100	WTL3-003-0000
3.9x7.6	M3.5	#6	3.8	4	7.4	7.8	1.95	2.45	100	WTL2-3.5-0000	100	WTL3-3.5-0000
3.9x9.0			3.8	4	8.8	9.2	1.95	2.45	100	WTL2-3.5-0001	100	WTL3-3.5-0001
4.4x7.6	M4	#8	4.3	4.5	7.4	7.8	1.95	2.45	100	WTL2-004-0000	100	WTL3-004-0000
4.4x9.0			4.3	4.5	8.8	9.2	1.95	2.45	100	WTL2-004-0001	100	WTL3-004-0001
5.4x9.0	M5	#10	5.3	5.5	8.8	9.2	1.95	2.45	100	WTL2-005-0000	100	WTL3-005-0000
5.4x10.8			5.3	5.5	10.6	11	1.95	2.45	100	WTL2-005-0001	100	WTL3-005-0001
6.5x10.8	M6		6.4	6.6	10.6	11	1.95	2.45	100	WTL2-006-0000	100	WTL3-006-0000
6.5x13.5			6.4	6.6	13.3	13.7	1.95	2.45	100	WTL2-006-0001	100	WTL3-006-0001
7.2x11.5	M8	1/4"	7.1	7.3	11.3	11.7	1.95	2.45	100	WTL2-007-0000	100	WTL3-007-0000
7.2x13.5			7.1	7.3	13.3	13.7	1.95	2.45	100	WTL2-007-0001	100	WTL3-007-0001
8.7x13.5		5/16"	8.6	8.8	13.3	13.7	1.95	2.45	100	WTL2-008-0000	100	WTL3-008-0000
8.7x16.6			8.6	8.8	16.4	16.8	1.95	2.45	100	WTL2-008-0001	100	WTL3-008-0001
10.3x16.6	M10	3/8"	10.2	10.4	16.4	16.8	1.95	2.45	100	WTL2-009-0000	100	WTL3-009-0000
10.3x21.0			10.2	10.4	20.8	21.2	1.95	2.45	100	WTL2-009-0001	100	WTL3-009-0001
10.7x16.6			10.5	10.9	16.4	16.8	1.95	2.45	100	WTL2-010-0000	100	WTL3-010-0000
10.7x21.0			10.5	10.9	20.8	21.2	1.95	2.45	100	WTL2-010-0001	100	WTL3-010-0001
11.4x18.5	M11	7/16"	11.2	11.6	18.3	18.7	1.95	2.45	100	WTL2-011-0000	100	WTL3-011-0000
13.0x19.5	M12		12.8	13.2	19.3	19.7	1.95	2.45	50	WTL2-012-0000	50	WTL3-012-0000
13.0x25.4			12.8	13.2	25.2	25.6	2.95	3.45	50	WTL2-012-0001	50	WTL3-012-0001
13.5x19.5		1/2"	13.3	13.7	19.3	19.7	1.95	2.45	50	WTL2-013-0000	50	WTL3-013-0000
13.5x25.4			13.3	13.7	25.2	25.6	2.95	3.45	50	WTL2-013-0001	50	WTL3-013-0001
15.2x23.0	M14	9/16"	15	15.4	22.8	23.2	2.95	3.45	50	WTL2-014-0000	50	WTL3-014-0000
15.2x30.7			15	15.4	30.5	30.9	2.95	3.45	50	WTL2-014-0001	50	WTL3-014-0001
17.0x25.4	M16	5/8"	16.8	17.2	25.2	25.6	2.95	3.45	25	WTL2-016-0000	25	WTL3-016-0000
17.0x30.7			16.8	17.2	30.5	30.9	2.95	3.45	25	WTL2-016-0001	25	WTL3-016-0001
19.5x29.0	M18		19.3	19.7	28.8	29.2	2.95	3.45	25	WTL2-018-0000	25	WTL3-018-0000
19.5x34.5			19.3	19.7	34.3	34.7	2.95	3.45	25	WTL2-018-0001	25	WTL3-018-0001
20.0x30.7	M20	3/4"	19.8	20.2	30.5	30.9	2.95	3.45	25	WTL2-019-0000	25	WTL3-019-0000
20.0x39.0			19.8	20.2	38.8	39.2	2.95	3.45	25	WTL2-019-0001	25	WTL3-019-0001
21.4x30.7			21.2	21.6	30.5	30.9	2.95	3.45	25	WTL2-020-0000	25	WTL3-020-0000
21.4x39.0			21.2	21.6	38.8	39.2	2.95	3.45	25	WTL2-020-0001	25	WTL3-020-0001
23.4x34.5	M22	7/8"	23.2	23.6	34.3	34.7	2.95	3.45	25	WTL2-022-0000	25	WTL3-022-0000
23.4x42.0			23.2	23.6	41.8	42.2	2.95	3.45	25	WTL2-022-0001	25	WTL3-022-0001
25.3x39.0	M24		25.1	25.5	38.8	39.2	2.95	3.45	5	WTL2-024-0000	5	WTL3-024-0000
25.3x48.5			25.1	25.5	48.3	48.7	2.95	3.45	5	WTL2-024-0001	5	WTL3-024-0001
27.9x39.0	M27	1"	27.7	28.1	38.8	39.2	2.95	3.45	5	WTL2-025-0000	5	WTL3-025-0000
27.9x48.5			27.7	28.1	48.3	48.7	2.95	3.45	5	WTL2-025-0001	5	WTL3-025-0001
28.4x42.0			28.2	28.6	41.7	42.3	6.3	6.8	5	WTL2-027-0000	5	WTL3-027-0000
28.4x48.5			28.2	28.6	48.2	48.8	6.3	6.8	5	WTL2-027-0001	5	WTL3-027-0001
31.4x47.0	M30	1 1/8"	31.2	31.6	46.7	47.3	6.3	6.8	5	WTL2-030-0000	5	WTL3-030-0000
31.4x58.5			31.2	31.6	58.2	58.8	6.3	6.8	5	WTL2-030-0001	5	WTL3-030-0001
34.4x48.5	M33	1 1/4"	34.2	34.6	48.2	48.8	6.3	6.8	5	WTL2-033-0000	5	WTL3-033-0000
37.4x55.0	M36	1 3/8"	37.2	37.6	54.7	55.3	6.3	6.8	5	WTL2-036-0000	5	WTL3-036-0000
40.4x58.5	M39	1 1/2"	40.2	40.6	58.2	58.8	6.3	6.8	5	WTL2-039-0000	5	WTL3-039-0000
43.2x63.0	M42		43	43.4	62.7	63.3	6.3	6.8	5	WTL2-042-0000	5	WTL3-042-0000
46.2x70.0	M45	1 3/4"	46.2	46.7	68	70	8.25	9.75	1	WTL2-045-0000	1	WTL3-045-0000
49.6x75.0	M48		49.6	50.1	73	75	8.25	9.75	1	WTL2-048-0000	1	WTL3-048-0000
53.6x80.0	M52	2"	53.6	54.1	78	80	8.25	9.75	1	WTL2-052-0000	1	WTL3-052-0000
59.1x85	M56	2 1/4"	59.1	59.6	83	85	8.25	9.75	1	WTL2-056-0000	1	WTL3-056-0000
63.1x90	M60		63.1	63.6	88	90	8.25	9.75	1	WTL2-060-0000	1	WTL3-060-0000
67.1x95.0	M64	2 1/2"	67.1	67.6	93	95	8.25	9.75	1	WTL2-064-0000	1	WTL3-064-0000
71.1x100.0	M68		71.1	71.6	98	100	8.25	9.75	1	WTL2-068-0000	1	WTL3-068-0000
75.1x105	M72		75.1	75.6	103	105	8.25	9.75	1	WTL2-072-0000	1	WTL3-072-0000
79.1x110.0	M76	3"	79.1	79.6	108	110	8.25	9.75	1	WTL2-076-0000	1	WTL3-076-0000
83.1x115.0	M80		83.1	83.6	113	115	8.25	9.75	1	WTL2-080-0000	1	WTL3-080-0000

*Please call us for availability.