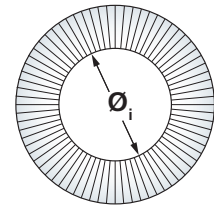


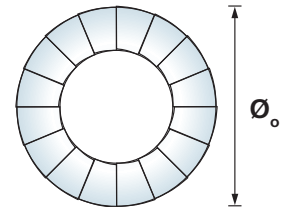
NORD-LOCK washer dimensions UNC - preassembled pairs

STEEL, ZINC FLAKE COATED (DELTA PROTEKT®) - ELV & RoHS COMPLIANT

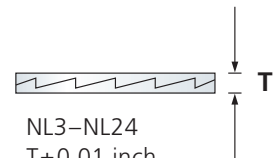
Washer size	Bolt size		\varnothing_i [inch]	\varnothing_o [inch]	Thickness T [inch]	Min. package [pairs]	Approx. weight lbs/100 pairs
	UNC	Metric					
NL3	#5	M3	0.13	0.28	0.07	200	0.07
NL3.5	#6	M3.5	0.15	0.30	0.07	200	0.09
NL3.5sp	#6	M3.5	0.15	0.35	0.07	200	0.13
NL4	#8	M4	0.17	0.30	0.07	200	0.09
NL4sp	#8	M4	0.17	0.35	0.07	200	0.13
NL5	#10	M5	0.21	0.35	0.07	200	0.11
NL5sp	#10	M5	0.21	0.43	0.07	200	0.24
NL6		M6	0.26	0.43	0.07	200	0.15
NL6sp		M6	0.26	0.53	0.10	200	0.44
NL1/4"	1/4"		0.28	0.45	0.07	200	0.18
NL1/4"sp	1/4"		0.28	0.53	0.10	200	0.40
NL8	5/16"	M8	0.34	0.53	0.10	200	0.33
NL8sp	5/16"	M8	0.34	0.65	0.10	200	0.62
NL3/8"	3/8"		0.41	0.65	0.10	200	0.51
NL3/8"sp	3/8"		0.41	0.83	0.10	200	1.06
NL10		M10	0.42	0.65	0.10	200	0.49
NL10sp		M10	0.42	0.83	0.10	200	1.04
NL11	7/16"	M11	0.45	0.73	0.10	200	0.64
NL12		M12	0.51	0.77	0.10	200	0.64
NL12sp		M12	0.51	1.00	0.13	100	2.05
NL1/2"	1/2"		0.53	0.77	0.10	200	0.60
NL1/2"sp	1/2"		0.53	1.00	0.13	100	1.98
NL14	9/16"	M14	0.60	0.91	0.13	100	1.23
NL14sp	9/16"	M14	0.60	1.21	0.13	100	3.11
NL16	5/8"	M16	0.67	1.00	0.13	100	1.48
NL16sp	5/8"	M16	0.67	1.21	0.13	100	2.82
NL18		M18	0.77	1.14	0.13	100	1.87
NL18sp		M18	0.77	1.36	0.13	100	3.48
NL3/4"	3/4"		0.79	1.21	0.13	100	2.31
NL3/4"sp	3/4"		0.79	1.54	0.13	100	4.85
NL20		M20	0.84	1.21	0.13	100	2.05
NL20sp		M20	0.84	1.54	0.13	100	4.48
NL22	7/8"	M22	0.92	1.36	0.13	100	2.84
NL22sp	7/8"	M22	0.92	1.65	0.18	50	7.30
NL24		M24	1.00	1.54	0.13	100	3.70
NL24sp		M24	1.00	1.91	0.18	50	9.94
NL1"	1"		1.10	1.54	0.13	100	3.37
NL1"sp	1"		1.10	1.91	0.18	50	9.26
NL27		M27	1.12	1.65	0.26	50	7.25
NL27sp		M27	1.12	1.91	0.26	25	11.88
NL30	1 1/8"	M30	1.24	1.85	0.23	50	9.26
NL30sp	1 1/8"	M30	1.24	2.30	0.26	25	19.75
NL33	1 1/4"	M33	1.35	1.91	0.26	25	8.75
NL33sp	1 1/4"	M33	1.35	2.30	0.26	25	18.32
NL36	1 3/8"	M36	1.47	2.17	0.26	25	12.32
NL36sp	1 3/8"	M36	1.47	2.48	0.26	25	20.17
NL39	1 1/2"	M39	1.59	2.30	0.26	25	13.85
NL42		M42	1.70	2.48	0.26	25	16.47
NL45	1 3/4"	M45	1.82	2.76	0.28	25 *	22.49
NL48		M48	1.95	2.95	0.28	25 *	26.46
NL52	2"	M52	2.11	3.15	0.28	25 *	28.66
NL56	2 1/4"	M56	2.33	3.35	0.28	10 *	29.76
NL60		M60	2.48	3.54	0.28	10 *	33.51
NL64	2 1/2"	M64	2.64	3.74	0.28	10 *	36.82
NL68		M68	2.80	3.94	0.37	1 *	62.15
NL72		M72	2.96	4.13	0.37	1 *	67.68
NL76	3"	M76	3.11	4.33	0.37	1 *	73.43
NL80		M80	3.27	4.53	0.37	1 *	79.41
NL85		M85	3.47	4.72	0.37	1 *	83.42
NL90		M90	3.64	5.12	0.37	1 *	105.09
NL95		M95	3.83	5.31	0.37	1 *	109.81
NL100		M100	4.07	5.71	0.37	1 *	129.87
NL105		M105	4.27	5.91	0.37	1 *	135.10
NL110		M110	4.46	6.10	0.37	1 *	140.32
NL115		M115	4.66	6.50	0.37	1 *	165.96
NL120		M120	4.86	6.69	0.37	1 *	171.83
NL125		M125	5.06	6.81	0.37	1 *	168.94
NL130		M130	5.25	7.01	0.37	1 *	174.54



NL3–NL8
 $\varnothing_i \pm 0.004$ inch
 NL10–NL42
 $\varnothing_i \pm 0.008$ inch
 NL45–NL130
 $\varnothing_i +0.02/-0$ inch



NL3–NL24
 $\varnothing_o \pm 0.008$ inch
 NL27–NL42
 $\varnothing_o \pm 0.012$ inch
 NL45–NL130
 $\varnothing_o +0/-0.08$ inch



NL3–NL24
 $T \pm 0.01$ inch
 NL27–NL42
 $T +0/-0.02$ inch
 NL45–NL130
 $T \pm 0.03$ inch

* NL45–NL130
 upon inquiry

Materials and dimensions are subject to change without prior notice.

Please consult our website for current dimensions:

www.nord-lock.com

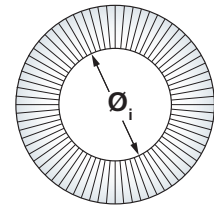
1 inch = 25.4 mm

1 lb = 0.4536 kg

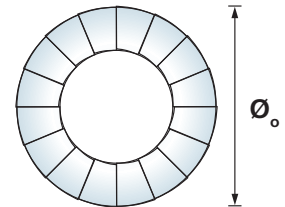
NORD-LOCK washer dimensions UNC - preassembled pairs

STAINLESS STEEL (according to EN 1.4404, AISI 316L)

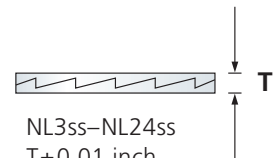
Washer size	Bolt size		\varnothing_i [inch]	\varnothing_o [inch]	Thickness T [inch]	Min. package [pairs]	Approx. weight lbs /100 pairs
	UNC	Metric					
NL3ss	#5	M3	0.13	0.28	0.09	200	0.09
NL3.5ss	#6	M3.5	0.15	0.30	0.09	200	0.09
NL3.5spss	#6	M3.5	0.15	0.35	0.09	200	0.15
NL4ss	#8	M4	0.17	0.30	0.09	200	0.09
NL4spss	#8	M4	0.17	0.35	0.09	200	0.15
NL5ss	#10	M5	0.21	0.35	0.09	200	0.13
NL5spss	#10	M5	0.21	0.43	0.09	200	0.24
NL6ss		M6	0.26	0.43	0.09	200	0.20
NL6spss		M6	0.26	0.53	0.08	200	0.35
NL1/4"ss	1/4"		0.28	0.45	0.09	200	0.20
NL1/4"spss	1/4"		0.28	0.53	0.09	200	0.33
NL8ss	5/16"	M8	0.34	0.53	0.08	200	0.26
NL8spss	5/16"	M8	0.34	0.65	0.08	200	0.48
NL3/8"ss	3/8"		0.41	0.65	0.08	200	0.42
NL3/8"spss	3/8"		0.41	0.83	0.09	200	0.84
NL10ss		M10	0.42	0.65	0.08	200	0.40
NL10spss		M10	0.42	0.83	0.08	200	0.82
NL11ss	7/16"	M11	0.45	0.73	0.09	200	0.57
NL12ss		M12	0.51	0.77	0.08	200	0.51
NL12spss		M12	0.51	1.00	0.12	100	1.81
NL1/2"ss	1/2"		0.53	0.77	0.09	200	0.53
NL1/2"spss	1/2"		0.53	1.00	0.13	100	1.76
NL14ss	9/16"	M14	0.60	0.91	0.12	100	1.08
NL14spss	9/16"	M14	0.60	1.21	0.13	100	2.89
NL16ss	5/8"	M16	0.67	1.00	0.12	100	1.30
NL16spss	5/8"	M16	0.67	1.21	0.12	100	2.49
NL18ss		M18	0.77	1.14	0.13	100	1.76
NL18spss		M18	0.77	1.36	0.13	100	3.44
NL3/4"ss	3/4"		0.79	1.21	0.13	100	2.12
NL3/4"spss	3/4"		0.79	1.54	0.13	100	4.63
NL20ss		M20	0.84	1.21	0.12	100	1.81
NL20spss		M20	0.84	1.54	0.13	100	4.54
NL22ss	7/8"	M22	0.92	1.36	0.13	100	2.71
NL22spss	7/8"	M22	0.92	1.65	0.13	50	4.92
NL24ss		M24	1.00	1.54	0.13	100	3.35
NL24spss		M24	1.00	1.91	0.13	50	7.72
NL1"ss	1"		1.10	1.54	0.13	100	3.13
NL1"spss	1"		1.10	1.91	0.13	50	7.10
NL27ss		M27	1.12	1.65	0.27	50	7.61
NL27spss		M27	1.12	1.91	0.27	25	12.90
NL30ss	1 1/8"	M30	1.24	1.85	0.27	50	9.77
NL30spss	1 1/8"	M30	1.24	2.30	0.27	25	21.01
NL33ss	1 1/4"	M33	1.35	1.91	0.27	25	9.37
NL36ss	1 3/8"	M36	1.47	2.17	0.27	25	13.14
NL39ss	1 1/2"	M39	1.59	2.30	0.27	25	14.86
NL42ss		M42	1.70	2.48	0.27	25	17.55
NL45ss	1 3/4"	M45	1.82	2.76	0.27	25 *	22.49
NL48ss		M48	1.95	2.95	0.27	25 *	26.46
NL52ss	2"	M52	2.11	3.15	0.35	1 *	44.31
NL56ss	2 1/4"	M56	2.33	3.35	0.35	1 *	46.96
NL60ss		M60	2.48	3.54	0.35	1 *	51.81
NL64ss	2 1/2"	M64	2.64	3.74	0.35	1 *	56.88
NL68ss		M68	2.80	3.94	0.35	1 *	62.17
NL72ss		M72	2.96	4.13	0.35	1 *	67.68
NL76ss	3"	M76	3.11	4.33	0.35	1 *	73.41
NL80ss		M80	3.27	4.53	0.35	1 *	79.37



NL3ss–NL8ss
 $\varnothing_i \pm 0.004$ inch
 NL10ss–NL42ss
 $\varnothing_i \pm 0.008$ inch
 NL45ss–NL80ss
 $\varnothing_i +0.02/-0$ inch



NL3ss–NL24ss
 $\varnothing_o \pm 0.008$ inch
 NL27ss–NL42ss
 $\varnothing_o \pm 0.012$ inch
 NL45ss–NL80ss
 $\varnothing_o +0/-0.08$ inch



NL3ss–NL24ss
 $T \pm 0.01$ inch
 NL27ss–NL42ss
 $T +0/-0.02$ inch
 NL45ss–NL80ss
 $T \pm 0.03$ inch

* NL45ss–NL80ss
 upon inquiry

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Please consult our website for current dimensions:
www.nord-lock.com

NL3 to NL20 available upon request in other steel alloys, e.g. 254SMO, Inconel® 718 and Inconel®/Hastelloy® C-276.

1 inch = 25.4 mm
 1 lb = 0.4536 kg