



WE 910 APPENDIX A

Gauging of Hexagon and Hexagon Flange Nuts

A1. GENERAL.

A1.1 HEXAGON.

The nut shall be gauged using two plain ring gauges, A and B, to demonstrate the coincidental acceptability of hex height, wrenching height and width across corners.

A1.2 HEXAGON FLANGED.

The nut shall be gauged using three plain ring gauges, A, B and C, to demonstrate the coincidental acceptability of hex height, wrenching height, width across corners, and the flange diameter and thickness.

A2. GAUGING.

A2.1 HEX PORTION.

For hexagon nuts gauge A2 shall be seated on a flat surface and the nut placed in it. For hexagon flanged nuts gauge A1 shall be placed over the hex portion and seat of the flange. Gauge B shall be placed on the top of the nut normal to the nut axis. The two gauges shall not be in contact.

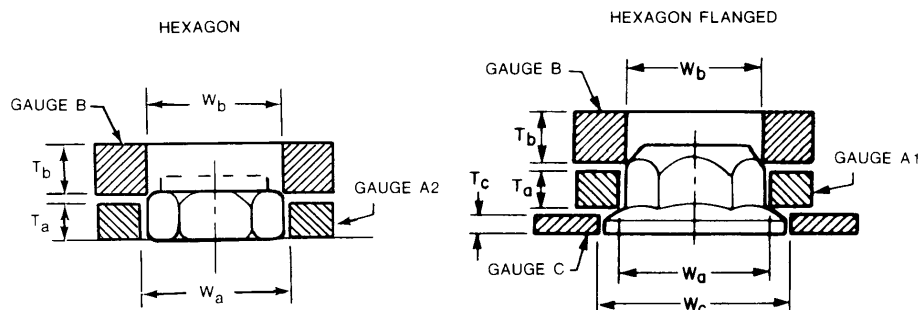
A2.2 FLANGE.

Gauge C shall be seated on a flat surface and the nut placed in it. Gauge A1 shall be placed over the hex portion. The nut shall seat within gauge C, and gauges A1 and C shall not be in contact.

NOTE: For hexagon nuts only Clause 2.1 applies. For hexagon flanged nuts both Clauses 2.1 and 2.2 apply.

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Gauging of Hexagon and Hexagon Flanged Nuts



Hexagon and hexagon flanged nuts

Dimensions in mm

Nominal Size			M4	M5	M6	M8	M10	M12	M14	M16	M20	M24
Gauges A1 & A2	Wa	Max.	8.09	9.25	11.56	15.02	17.33	20.79	24.26	27.72	34.65	41.58
		Min.	8.08	9.24	11.55	15.01	17.32	20.78	24.25	27.71	34.64	41.57
Gauge A1	Ta	Max.	2.0	2.2	3.1	4.5	5.5	6.7	7.8	9	11.1	-
		Flanged Min.	1.99	2.19	3.09	4.49	5.49	6.69	7.79	8.99	11.09	-
Gauge A2	Hexagon	Max.	2.32	3.52	3.92	5.15	6.43	8.3	9.68	11.28	13.52	16.16
		Min.	2.31	3.51	3.91	5.14	6.42	8.29	9.67	11.27	13.51	16.15
Gauge B	Wb	Max.	7.65	8.78	11.04	14.37	16.63	20.02	23.35	26.74	32.94	39.54
		Min.	7.64	8.77	11.03	14.36	16.62	20.01	23.34	26.73	32.93	39.53
Gauge C	Tc	Min.	12	14	16	20	24	29	32.5	37	45	-
		Max.	0.98	1.08	1.19	1.31	1.81	2.20	2.55	2.96	3.7	-
		Min.	0.97	1.07	1.18	1.30	1.80	2.19	2.54	2.95	3.69	-

Thin nuts

Dimensions in mm

Nominal Size			M4	M5	M6	M8	M10	M12	M14	M16	M20	M24
Gauges A2	Wa	Max.	8.09	9.25	11.56	15.02	17.33	20.79	24.26	27.72	34.65	41.58
		Min.	8.08	9.24	11.55	15.01	17.32	20.78	24.25	27.71	34.64	41.57
Gauge A2	Ta	Max.	1.56	1.96	2.32	2.96	3.76	4.56	5.14	5.94	7.28	8.72
		Min.	1.55	1.95	2.31	2.95	3.75	4.55	5.13	5.93	7.27	8.71
Gauge B2	Wb	Max.	7.65	8.78	11.04	14.37	16.63	20.02	23.34	26.74	32.94	39.54
		Min.	7.64	8.77	11.03	14.36	16.62	20.01	23.33	26.73	32.93	39.53
Gauge B	Tb	Min.	3	3	4	4	5	5	6	6	6	6