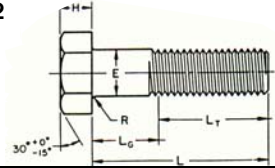


HEX BOLTS & NUTS

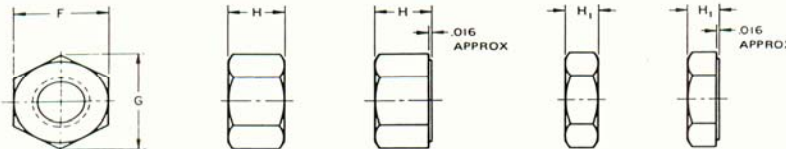
Hex Bolts UNC 2A ANSI/ASME B18.2.1 • UNC 2B ANSI/ASME B18.2.2



This chart may be used for
A307 Grade A, SAE J429, and ASTM F593 Type 304 & 316 Stainless

NOMINAL SIZE OR BASIC BOLT DIA	E		F		G		H			R		L _T (REF)		
	BODY DIA	MAX	WIDTH ACROSS FLATS		WIDTH ACROSS CORNERS		HEIGHT			RADIUS OF FILLET		THREAD LENGTH		
			BASIC	MAX	MIN	MAX	MIN	BASIC	MAX	MIN	MAX	MIN	FOR BOLT LENGTH ≤ 6 IN.	FOR BOLT LENGTH ≥ 6 IN.
1/4	.2500	0.260	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.150	0.03	0.01	0.750	1.000
5/16	0.3125	0.324	1/2	0.500	0.484	0.577	0.522	7/32	0.235	0.195	0.03	0.01	0.875	1.125
3/8	0.3750	0.388	9/16	0.562	0.544	0.650	0.620	1/4	0.268	0.226	0.03	0.01	1.000	1.250
7/16	0.4375	0.452	5/8	0.625	0.603	0.722	0.687	19/64	0.316	0.272	0.03	0.01	1.125	1.375
1/2	0.5000	0.515	3/4	0.750	0.725	0.866	0.826	11/32	0.364	0.302	0.03	0.01	1.250	1.500
5/8	0.6250	0.642	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378	0.06	0.02	1.500	1.750
3/4	0.7500	0.768	1 1/8	1.125	1.088	1.299	1.240	1/2	0.524	0.455	0.06	0.02	1.750	2.000
7/8	0.8750	0.895	1	1.312	1.269	1.516	1.447	37/64	0.604	0.531	0.06	0.02	2.000	2.250
1	1.0000	1.022	1 1/2	1.500	1.450	1.732	1.653	43/64	0.700	0.591	0.09	0.03	2.250	2.500
1 1/8	1.1250	1.149	1	1.688	1.631	1.949	1.859	3/4	0.780	0.658	0.09	0.03	2.500	2.750
1 1/4	1.2500	1.277	1 7/8	1.875	1.812	2.165	2.066	27/32	0.876	0.749	0.09	0.03	2.750	3.000
1 3/8	1.3750	1.404	2	2.062	1.994	2.382	2.273	29/32	0.940	0.810	0.09	0.03	3.000	3.250
1 1/2	1.5000	1.531	2 1/4	2.250	2.175	2.598	2.480	1	1.036	0.902	0.09	0.03	3.250	3.500

Below 6" : 2x Dia. + 1/4 = T.L.
Above 6" : 2x Dia. + 1/2 = T.L.



Hex Nuts and Hex Jam Nuts ASTM A563/F594

NOMINAL SIZE OR BASIC BOLT DIA	F			G		H			H ₁			RUNOUT OF BEARING SURFACE-FIR		
	BASIC	MAX	MIN	MAX	MIN	BASIC	MAX	MIN	BASIC	MAX	MIN	HEX NUTS WITH SPECIFIED PROOF LOADS LESS THAN 150,000 PSI AND ALL HEX JAM NUTS	HEX NUTS WITH SPECIFIED PROOF LOADS EQUAL TO 150,000 PSI AND GREATER	
												MAX	MAX	
1/4	.2500	7/16	0.438	0.428	0.505	0.488	7/32	0.22	0.21	5/32	0.164	0.150	0.015	0.010
5/16	0.3125	1/2	0.500	0.489	0.577	0.557	17/64	0.27	0.25	3/16	0.195	0.180	0.016	0.011
3/8	0.3750	9/16	0.562	0.551	0.650	0.628	21/64	0.33	0.32	7/32	0.227	0.210	0.017	0.012
7/16	0.4375	11/16	0.688	0.675	0.794	0.768	3/8	0.38	0.36	1/4	0.260	0.240	0.018	0.013
1/2	0.5000	3/4	0.750	0.736	0.866	0.840	7/16	0.44	0.42	5/16	0.323	0.302	0.019	0.014
9/16	0.5625	7/8	0.875	0.861	1.010	0.982	31/64	0.49	0.47	5/16	0.324	0.301	0.020	0.015
5/8	0.6250	15/16	0.938	0.922	1.083	1.051	35/64	0.55	0.53	3/8	0.387	0.363	0.021	0.016
3/4	0.7500	1 1/8	1.125	1.088	1.299	1.240	41/64	0.66	0.61	27/6	0.446	0.398	0.023	0.018
7/8	0.8750	1 5/16	1.312	1.269	1.516	1.447	3/4	0.77	0.72	31/6	0.510	0.458	0.025	0.020
1	1.0000	1 1/2	1.500	1.450	1.732	1.653	55/64	0.88	0.83	35/6	0.575	0.519	0.027	0.022
1 1/8	1.1250	1	1.688	1.631	1.949	1.859	31/32	0.99	0.93	39/6	0.639	0.579	0.030	0.025
1 1/4	1.2500	1 7/8	1.875	1.812	2.165	2.066	1	1.09	1.03	23/3	0.751	0.687	0.033	0.028
1 3/8	1.3750	2 1/16	2.062	1.994	2.382	2.273	1	1.20	1.13	25/3	0.815	0.747	0.036	0.031
1 1/2	1.5000	2 1/4	2.250	2.175	2.598	2.480	1	1.31	1.24	27/3	0.880	0.808	0.039	0.034

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