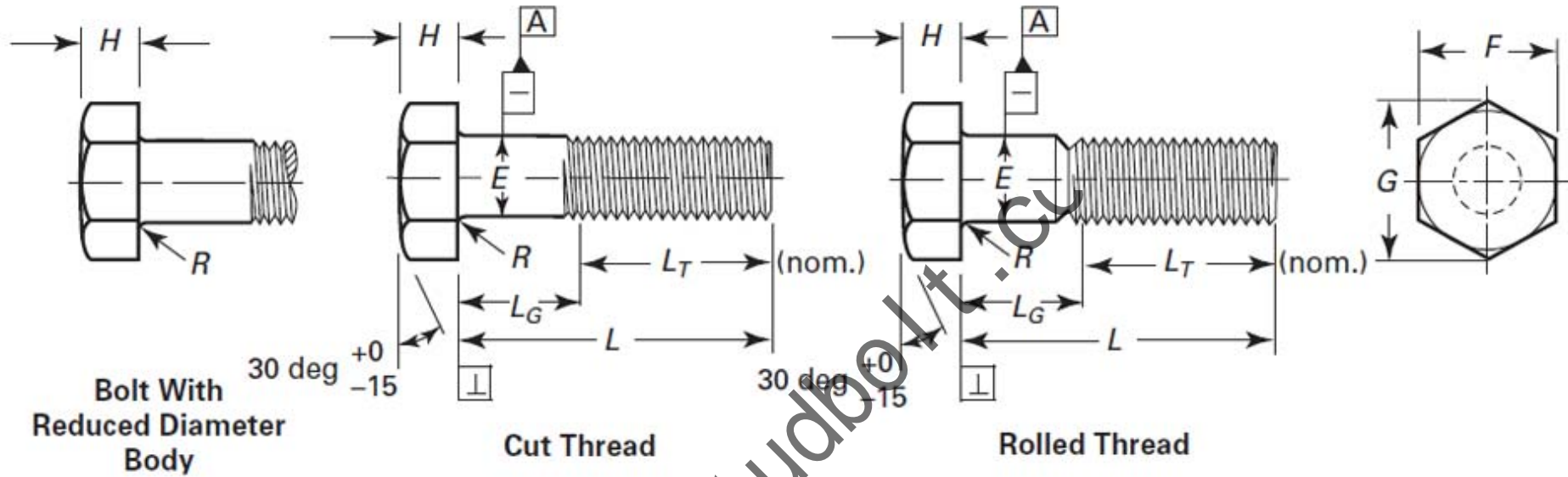


ASME B18.2.1 Hex Bolt

Dimensional Data Sheet



Nominal Size or Basic product Diameter	Full-Size Body Diameter, E		Width Across Flats, F			Width Across Corners, G		Head Height, H			Radius of Fillet, R		Thread Length for Bolt Lengths, L_T
	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	Max.	Min.	
1/4 0.2500	0.26	0.237	7/16	0.438	0.425	0.505	0.484	11/64	0.188	0.15	0.03	0.01	Full Thread (L)
5/16 0.3125	0.324	0.298	1/2	0.5	0.484	0.577	0.552	7/32	0.235	0.195	0.03	0.01	Full Thread (L)
3/8 0.3750	0.388	0.36	9/16	0.562	0.544	0.65	0.62	1/4	0.268	0.226	0.03	0.01	Full Thread (L)
7/16 0.4375	0.452	0.421	5/8	0.625	0.603	0.722	0.687	19/64	0.316	0.272	0.03	0.01	Full Thread (L)
1/2 0.5000	0.515	0.482	3/4	0.75	0.725	0.866	0.826	11/32	0.364	0.302	0.03	0.01	Full Thread (L)
5/8 0.6250	0.642	0.605	15/16	0.938	0.906	1.083	1.033	27/64	0.444	0.378	0.06	0.02	Full Thread (L)
3/4 0.7500	0.768	0.729	1 1/8	1.125	1.088	1.299	1.24	1/2	0.524	0.455	0.06	0.02	Full Thread (L)

ASME B18.2.1 Hex Bolt

Dimensional Data Sheet

Nominal Size or Basic product Diameter	Full-Size Body Diameter, E		Width Across Flats, F			Width Across Corners, G		Head Height, H			Radius of Fillet, R		Thread Length for Bolt Lengths, LT
	Max.	Min.	Basic	Max.	Min.	Max.	Min.	Basic	Max.	Min.	Max.	Min.	
7/8 0.8750	0.895	0.852	1 5/16	1.312	1.269	1.516	1.447	37/64	0.604	0.531	0.06	0.02	Full Thread (L)
1 1.0000	1.022	0.976	1 1/2	1.5	1.45	1.732	1.653	43/64	0.7	0.591	0.09	0.03	Full Thread (L)
1 1/8 1.1250	1.149	1.098	1 11/16	1.688	1.631	1.949	1.859	3/4	0.78	0.658	0.09	0.03	Full Thread (L)
1 1/4 1.2500	1.277	1.223	1 7/8	1.875	1.812	2.165	2.066	27/32	0.876	0.749	0.09	0.03	Full Thread (L)
1 3/8 1.3750	1.404	1.345	2 1/16	2.062	1.994	2.382	2.273	29/32	0.94	0.81	0.09	0.03	Full Thread (L)
1 1/2 1.5000	1.531	1.47	2 1/4	2.25	2.175	2.598	2.48	1	1.036	0.902	0.09	0.03	Full Thread (L)
1 5/8 1.6250	1.658	1.591	2 7/16	2.438	2.356	2.815	2.616	1 3/32	1.116	0.978	0.09	0.03	Full Thread (L)
1 3/4 1.7500	1.785	1.716	2 5/8	2.625	2.538	3.031	2.893	1 5/32	1.196	1.054	0.12	0.04	Full Thread (L)
1 7/8 1.8750	1.912	1.839	2 13/16	2.812	2.719	3.248	3.099	1 1/4	1.276	1.13	0.12	0.04	Full Thread (L)
2 2.000	2.039	1.964	3	3	2.9	3.464	3.306	1 11/32	1.388	1.175	0.12	0.04	Full Thread (L)
2 1/4 2.2500	2.305	2.214	3 3/8	3.375	3.262	3.897	3.719	1 1/2	1.548	1.327	0.19	0.06	Full Thread (L)
2 1/2 2.5000	2.559	2.461	3 3/4	3.75	3.625	4.33	4.133	1 21/32	1.708	1.479	0.19	0.06	Full Thread (L)
2 3/4 2.7500	2.827	2.711	4 1/8	4.125	3.988	4.763	4.546	1 13/16	1.869	1.632	0.19	0.06	Full Thread (L)
3 3.000	3.081	2.961	4 1/2	4.5	4.35	5.196	4.959	2	2.06	1.815	0.19	0.06	Full Thread (L)
3 1/4 3.2500	3.335	3.21	4 7/8	4.875	4.712	5.629	5.372	2 3/16	2.251	1.936	0.19	0.06	Full Thread (L)
3 1/2 3.5000	3.589	3.461	5 1/4	5.25	5.075	6.062	5.786	2 5/16	2.38	2.057	0.19	0.06	Full Thread (L)
3 3/4 3.7500	3.858	3.726	5 5/8	5.625	5.437	6.495	6.198	2 1/2	2.572	2.241	0.19	0.06	Full Thread (L)
4 4.000	4.111	3.975	6	6	5.8	6.928	6.612	2 11/16	2.764	2.424	0.19	0.06	Full Thread (L)