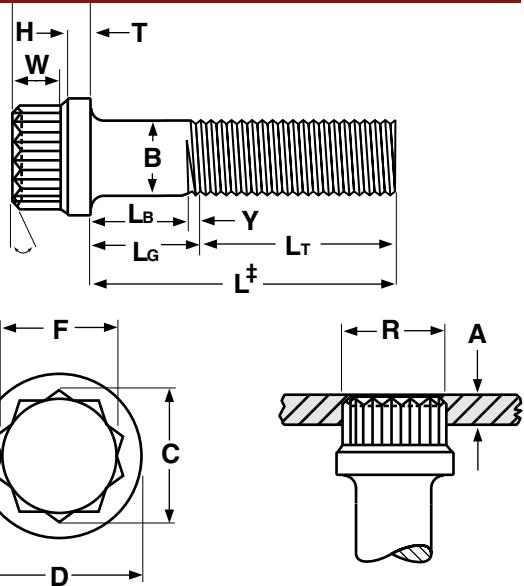


## Bolts & Cap Screws

### 12-Point Flange Bolts



Nominal Size	B	D		F		C	H	W	T	A		R		L <sub>T</sub>	Y
	Body Diam.	Flange Diam.		Width Across Flats		Width Across Corners	Head Height	Wrenching Height	Flange Thickness	Gaging Ring Thickness		Gaging Ring Diam.		Thread Length	Transi-tion Thread Length
	Min	Max	Min	Max	Min	Min	Max	Min	Min	Max	Min	Max	Min	Basic	Max
1/4	0.2435	0.375	0.365	0.252	0.244	0.278	0.260	0.15	0.058	0.0525	0.0522	0.2783	0.2780	1.000	0.25
5/16	0.3053	0.469	0.457	0.315	0.306	0.348	0.312	0.18	0.074	0.0600	0.0597	0.3483	0.3480	1.125	0.28
3/8	0.3678	0.562	0.550	0.377	0.368	0.420	0.375	0.21	0.095	0.0711	0.0708	0.4203	0.4200	1.250	0.31
7/16	0.4294	0.656	0.642	0.438	0.429	0.489	0.438	0.26	0.109	0.0840	0.0837	0.4893	0.4890	1.375	0.36
1/2	0.4919	0.750	0.735	0.502	0.493	0.562	0.500	0.29	0.129	0.0948	0.0945	0.5623	0.5620	1.500	0.38
9/16	0.5538	0.844	0.828	0.564	0.555	0.633	0.563	0.33	0.145	0.1071	0.1068	0.6333	0.6330	1.625	0.42
5/8	0.6163	0.938	0.921	0.627	0.618	0.705	0.625	0.36	0.166	0.1179	0.1176	0.7053	0.7050	1.750	0.46
3/4	0.7406	1.125	1.107	0.752	0.743	0.847	0.750	0.44	0.200	0.1416	0.1413	0.8473	0.8470	2.000	0.50
7/8	0.8647	1.312	1.293	0.877	0.866	0.987	0.875	0.51	0.234	0.1656	0.1653	0.9873	0.9870	2.250	0.56
1	0.9886	1.500	1.479	1.003	0.991	1.130	1.000	0.60	0.268	0.1893	0.1890	1.1303	1.1300	2.500	0.62
1-1/8	1.1086	1.688	1.665	1.128	1.115	1.271	1.125	0.66	0.310	0.2109	0.2106	1.2713	1.2710	2.750	0.71
1-1/4	1.2336	1.875	1.852	1.253	1.240	1.414	1.250	0.73	0.350	0.2331	0.2328	1.4143	1.4140	3.000	0.71
1-3/8	1.3568	2.062	2.038	1.378	1.365	1.556	1.375	0.80	0.392	0.2544	0.2541	1.5563	1.5560	3.250	0.83
1-1/2	1.4818	2.250	2.224	1.503	1.489	1.697	1.500	0.87	0.433	0.2763	0.2760	1.6973	1.6970	3.500	0.83
Tolerance on Length				Nominal Screw Lengths											
				Up to 1 in., incl.			Over 1 to 2 in., incl.			over 2 to 6 in., incl.			over 6 in.		
				-0.031			-0.047			-0.062			-0.125		

IFI 115

‡Length of a flange screw is measured from the underhead bearing surface to the extreme end of the screw.

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nuts, washers and other industrial fasteners.**