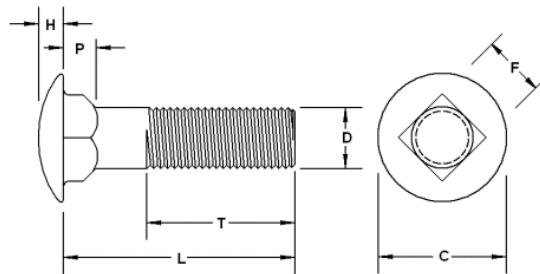


Carriage Bolts

(Round Head Square Neck)



SAE Grade 2, ASTM A307

SAE J429 Grade 5, ASTM A449

Plain = CB020-----

Plain = CB050-----

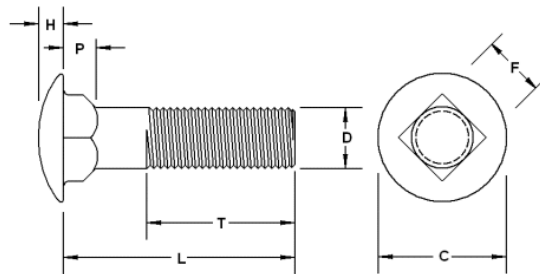
Zinc = CB020-----Z1

Zinc = CB050-----Z1

Bolt Diameter	D		C		H		F		P	
	Body Diameter		Head Diameter		Head Height		Square Width		Square Depth	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
3/8	0.388	0.360	0.844	0.782	0.208	0.188	0.388	0.368	0.219	0.188
1/2	0.515	0.483	1.094	1.032	0.270	0.250	0.515	0.492	0.281	0.250
5/8	0.642	0.605	1.344	1.219	0.344	0.313	0.642	0.616	0.344	0.313
3/4	0.768	0.729	1.594	1.469	0.406	0.375	0.768	0.741	0.406	0.375
7/8	0.895	0.852	1.844	1.719	0.469	0.438	0.895	0.865	0.469	0.438
1	1.022	0.976	2.094	1.969	0.531	0.500	1.022	0.990	0.531	0.500
1-1/4	1.277		2.850		0.531	0.500	1.250		0.625	

Step Bolt

(Like Carriage Bolt but bigger OD)



Bolt Diameter	D		C		H		F		P	
	Body Diameter		Head Diameter		Head Height		Square Width		Square Depth	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
10	.199	.182	.656	.625	.114	.094	.199	.185	.125	.094
1/4	.260	.237	.844	.813	.145	.125	.260	.245	.156	.125
5/16	.324	.298	1.031	1.000	.176	.156	.324	.307	.187	.156
3/8	.388	.360	1.219*	1.188	.208	.188	.388	.368	.219	.188
7/16	.452	.421	1.406	1.375	.239	.219	.452	.431	.250	.219
1/2	.515	.483	1.594	1.563	.270	.250	.515	.492	.281	.250