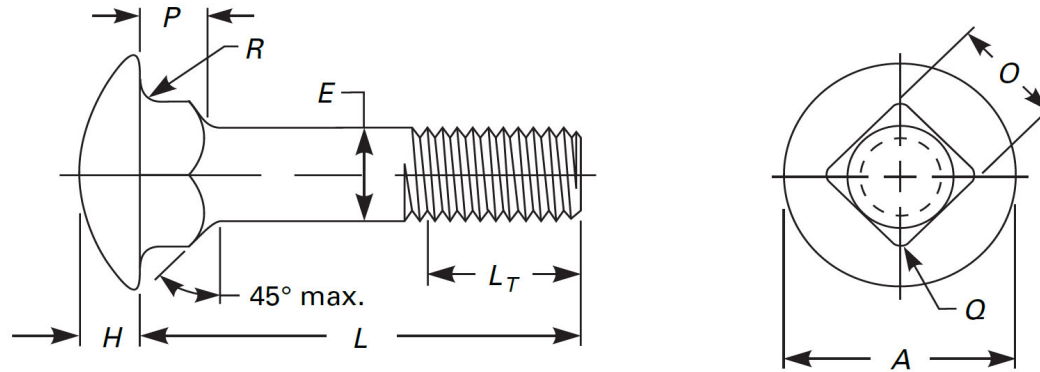




**NiCKEL**  
SYSTEMS

# Carriage Bolts



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ASME B18.5-2012

Nominal Size or Basic Bolt Diameter	E		A		H		O		P		Q	R	
	Body Diameter		Head Diameter		Head Height		Square Depth		Square Depth		Maximum Corner Radius on Square	Maximum Fillet Radius	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	6 in & Shorter	6 in & Shorter	
No. 10	0.1900	0.199	0.159	0.469	0.436	0.114	0.094	0.199	0.185	0.125	0.094	0.031	0.031
1/4	0.2500	0.260	0.213	0.594	0.563	0.145	0.125	0.260	0.245	0.156	0.125	0.031	0.031
5/16	0.3125	0.324	0.272	0.719	0.688	0.176	0.156	0.324	0.307	0.187	0.156	0.031	0.031
3/8	0.3750	0.388	0.329	0.844	0.782	0.208	0.188	0.388	0.368	0.219	0.188	0.047	0.031
7/16	0.4375	0.452	0.385	0.969	0.907	0.239	0.219	0.452	0.431	0.250	0.219	0.047	0.031
1/2	0.5000	0.515	0.444	1.094	1.032	0.270	0.250	0.515	0.492	0.281	0.250	0.047	0.031
5/8	0.6250	0.642	0.559	1.344	1.219	0.344	0.313	0.642	0.616	0.344	0.313	0.078	0.062
3/4	0.7500	0.768	0.678	1.594	1.469	0.406	0.375	0.768	0.741	0.406	0.375	0.078	0.062
7/8	0.8750	0.895	0.795	1.844	1.719	0.459	0.438	0.895	0.865	0.469	0.438	0.094	0.062
1	1.0000	1.022	0.91	2.094	1.969	0.531	0.500	1.022	0.990	0.531	0.500	0.094	0.062

**Note:** (1) All dimensions are in inches. (2) Carriage bolts are also referred to as round head square neck bolts. (3) L is the nominal bolt length. For common nominal sizes, hex head bolts are typically stocked in 1/8" increments up to 1" long, in 1/4" increments from 1" to 6" long & in 1/2" increments from 6" to 10" long.