

ROUND HEAD SQUARE NECK BOLTS

ASME
B18.5
1990 (R 1998)

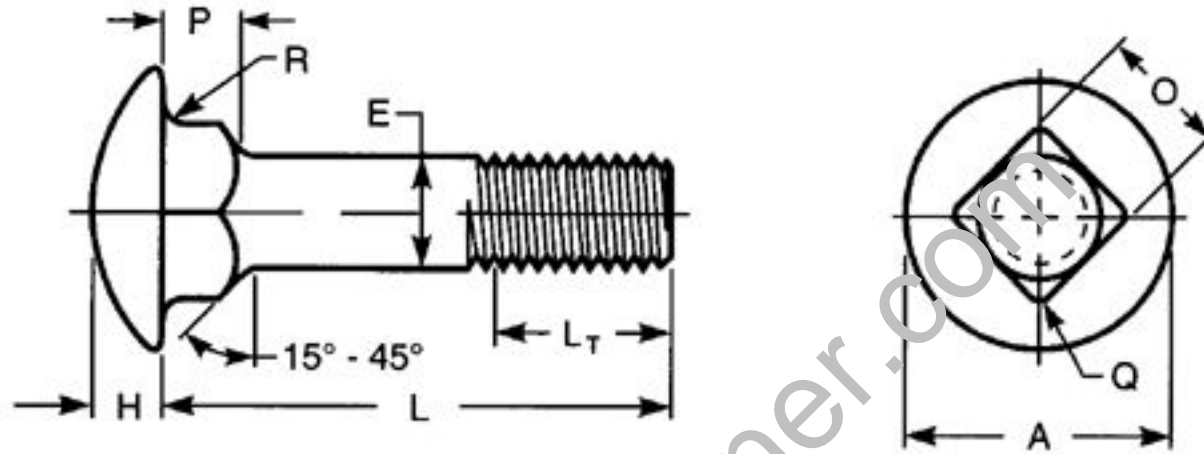


Table 2 Dimensions of Round Head Square Neck Bolts

Nominal Size or Basic Bolt Diameter	E		A		H		O		P		Q	R	
	Body Diameter		Hex Diameter		Head Height		Square Width		Square Depth		Corner Radius on Square	Fillet Radius	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max	
No. 10	0.1900	0.199	0.182	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	0.237	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	0.298	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	0.360	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	0.421	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	0.483	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	0.605	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	0.729	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	0.852	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	0.976	2.094	1.969	0.531	0.500	1.022	0.990	0.531	0.500	0.094	0.062
See Notes	1, 3	4		5		6				7			2, 8

NOTES:

- (1) Where specifying nominal size in decimals, zeros preceding decimal and in the fourth decimal place shall be omitted.
- (2) The minimum radius is one half of the value shown.
- (3) Weights of round head square neck bolts are given on page N-28.
- (4) See Para 2.3.
- (5) See Para 2.1.2.
- (6) See Para. 2.1.1.
- (7) See Para. 2.2.1.
- (8) See Para. 2.1.3.
- (9) For other notes and additional requirements, refer to the Introductory Notes and General Data, pages C-42 and C-43.

ROUND HEAD SHORT SQUARE NECK BOLTS

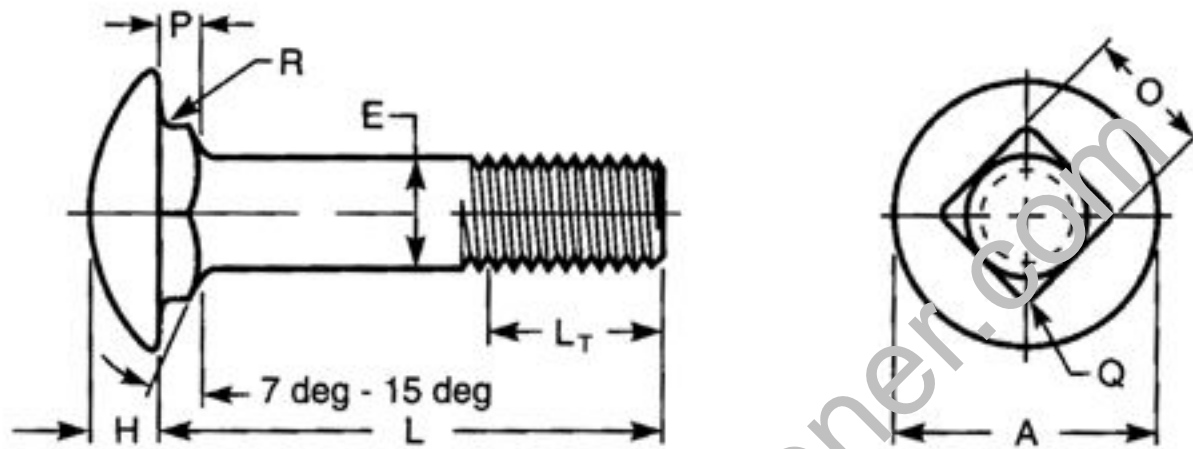


Table 3 Dimensions of Round Head Short Square Neck Bolts

Nominal Size or Basic Bolt Diameter	E		A		H		O		P		Q	R
	Body Diameter		Head Diameter		Head Height		Square Width		Square Depth		Corner Radius on Square	Fillet Radius
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max
1/4 0.2500	0.260	0.213	0.594	0.563	0.145	0.125	0.260	0.245	0.124	0.093	0.031	0.031
5/16 0.3125	0.324	0.272	0.719	0.688	0.176	0.156	0.324	0.307	0.124	0.093	0.031	0.031
3/8 0.3750	0.388	0.329	0.844	0.782	0.208	0.188	0.388	0.368	0.156	0.125	0.047	0.031
7/16 0.4375	0.452	0.385	0.969	0.907	0.239	0.219	0.452	0.431	0.156	0.125	0.047	0.031
1/2 0.5000	0.515	0.444	1.094	1.032	0.270	0.250	0.515	0.492	0.156	0.125	0.047	0.031
5/8 0.6250	0.642	0.559	1.344	1.219	0.344	0.313	0.642	0.616	0.218	0.187	0.078	0.062
3/4 0.7500	0.768	0.678	1.594	1.469	0.406	0.375	0.768	0.741	0.218	0.187	0.078	0.062
See Notes	1, 9		3		4		5		6		7	2, 8

NOTES:

- (1) Where specifying nominal size in decimals, zeros preceding decimal and in the fourth decimal place shall be omitted.
- (2) The minimum radius is one half of the value shown.
- (3) See Para. 2.3.
- (4) See Para. 2.1.2.
- (5) See Para. 2.1.1.
- (6) See Para. 2.2.1.
- (7) See Para. 2.2.2.
- (8) See Para. 2.1.3.
- (9) For other notes and additional requirements, refer to the Introductory Notes and General Data, pages C-42 and C-43.