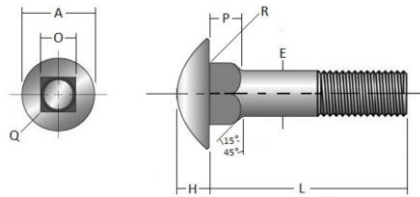


Metallics

An **AMERICAN** Source For Premier
and Innovative Fasteners and Anchors

CARRIAGE BOLTS – 18-8 STAINLESS STEEL AND 316 STAINLESS STEEL

The following Specification Sheet applies to all **Carriage Bolts – 18-8 Stainless Steel and 316 Stainless Steel** in our **JCB series**.



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.	Ref.	Max.
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
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

Specification Requirements:

- **Dimensions:** ASME B18.5:
Full Diameter Body on product over 12" in length.
Full or Reduced Diameter Body 6" < thru 12" lengths (Reduced body diameter having a limit equal to the minimum pitch diameter)
** Exceptions: bolts less than or equal to 6 inches in length shall be fully threaded. Bolts longer than 6" shall have 6" of full form threads.
- **Material:** 316 Stainless Steel, CW Alloy Group 2 per ASTM F593
or 18-8 Stainless Steel, having a maximum copper content of 4%
- **Mechanical Properties:** ASTM F593 CW Group 2 NOTE: per ASTM F593: fasteners with head configuration that is weaker than the thread section shall not be subject to tension tests but shall conform to the hardness (minimum and maximum) of CW group 1
- **Thread Requirements:** ASME B1.1, UNC, Class 2A

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