

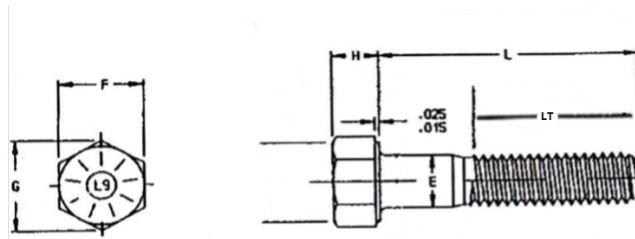


PRODUCT DATA SHEET

USA/CA: brightonBEST.com Europe: brightonBEST.org AU: brightonBEST.com.au NZ: brightonBEST.co.nz Brazil: brightonBEST.com.br

L9 High Head Hex Cap Screw

1.0 Dimensions: L9 is equivalent to grade 9. IFI does not cover grade 9. L9 is made to BBI's proprietary design.



Nominal Size or Basic Product Diameter	E		F		G		H		LT	
	Body Diameter		Width Across Flats		Width Across Corners		Head Height		Thread Length	
	Max	Min	Max	Min	Max	Min	Max	Min	For Screw Lengths 6 Inches and Shorter Ref	For Screw Lengths Over 6 Inches Ref
1/4	0.2500	0.2450	0.437	0.428	0.505	0.488	0.194	0.181	0.750	1.000
5/16	0.3125	0.3065	0.500	0.489	0.577	0.557	0.242	0.227	0.875	1.125
3/8	0.3750	0.3690	0.562	0.551	0.650	0.628	0.290	0.273	1.000	1.250
7/16	0.4375	0.4305	0.625	0.612	0.722	0.698	0.338	0.319	1.125	1.375
1/2	0.5000	0.4930	0.750	0.736	0.866	0.840	0.386	0.364	1.250	1.500
9/16	0.5625	0.5545	0.812	0.798	0.938	0.910	0.433	0.410	1.375	1.625
5/8	0.6250	0.6170	0.937	0.922	1.083	1.051	0.481	0.456	1.500	1.750
3/4	0.7500	0.7410	1.125	1.110	1.299	1.254	0.577	0.548	1.750	2.000
7/8	0.8755	0.8660	1.312	1.285	1.516	1.465	0.672	0.640	2.000	2.250
1	1.0000	0.9900	1.500	1.469	1.732	1.675	0.706	0.670	2.250	2.500
1-1/8	1.1250	1.1140	1.687	1.631	1.949	1.859	0.806	0.756	2.500	2.750
1-1/4	1.2500	1.2390	1.875	1.812	2.165	2.066	0.886	0.832	2.750	3.000
1-1/2	1.5000	1.4880	2.250	2.175	2.598	2.480	1.062	1.000	3.250	3.500

Notes :

- a) L9 hex cap screw dimensions are exactly the same as that of hex head cap screws as per ASME B18.2.1 except head height. The head height of L9 hex cap screws is slightly higher, for better wrenching.
- b) Thread Class Of Fit : 2A before zinc plating and after zinc plating must meet 3A GO & 2A NO GO thread ring gage condition.



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L9 High Head Hex Cap Screw

2.0 Mechanical Properties:

Hardness: 38 to 42 HRC

Surface Hardness: HR15N 81.5 Maximum

Tensile Strength: Minimum: 180,000 PSI and Maximum: 200,000 PSI

Yield Strength: 155,000 PSI Minimum

Proof Load Strength: 145,000 PSI

Elongation: 12 % Minimum

Reduction Of Area: 35 % Minimum

Head Marking: L9 and 9 Radial Lines

3.0 Surface Finish:

Zinc Plated Yellow. ASTM F1941/F1941M.Fe/Zn 5CN (5 microns or 0.0002" minimum). Yellow Trivalent (Cr+3). 96 hours for red rust.