

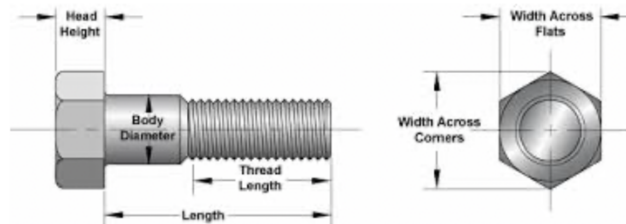


PRODUCT DATA SHEET

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

Heavy Hex Head Bolts - Inch Series

1.0 Dimensions: ASME B18.2.1.



| Nominal Size or Basic Product Diameter | Body Diameter | | Width Across Flats | | Width Across Corners | | Head Height | | Thread Length | |
|--|---------------|-------|--------------------|-------|----------------------|-------|-------------|-------|--|---------------------------------|
| | | | | | | | | | For Screw Lengths 6 Inches and Shorter | For Screw Lengths Over 6 Inches |
| | Max | Min | Max | Min | Max | Min | Max | Min | Ref | Ref |
| 1/2 | 0.515 | 0.482 | 0.875 | 0.850 | 1.010 | 0.969 | 0.364 | 0.302 | 1.250 | 1.500 |
| 5/8 | 0.642 | 0.605 | 1.062 | 1.031 | 1.227 | 1.175 | 0.444 | 0.378 | 1.500 | 1.750 |
| 3/4 | 0.768 | 0.729 | 1.250 | 1.212 | 1.443 | 1.383 | 0.524 | 0.455 | 1.750 | 2.000 |
| 7/8 | 0.895 | 0.852 | 1.438 | 1.394 | 1.660 | 1.589 | 0.604 | 0.531 | 2.000 | 2.250 |
| 1 | 1.022 | 0.976 | 1.625 | 1.575 | 1.876 | 1.796 | 0.700 | 0.591 | 2.250 | 2.500 |
| 1-1/8 | 1.149 | 1.098 | 1.812 | 1.796 | 2.093 | 2.002 | 0.780 | 0.658 | 2.500 | 2.750 |
| 1-1/4 | 1.277 | 1.223 | 2.000 | 1.938 | 2.309 | 2.209 | 0.876 | 0.749 | 2.750 | 3.000 |
| 1-3/8 | 1.404 | 1.345 | 2.188 | 2.119 | 2.526 | 2.416 | 0.940 | 0.810 | 3.000 | 3.250 |
| 1-1/2 | 1.531 | 1.470 | 2.375 | 2.300 | 2.742 | 2.622 | 1.036 | 0.902 | 3.250 | 3.500 |
| 1-3/4 | 1.785 | 1.716 | 2.750 | 2.662 | 3.175 | 3.035 | 1.196 | 1.054 | 3.750 | 4.000 |
| 2 | 2.039 | 1.964 | 3.125 | 3.025 | 3.608 | 3.449 | 1.388 | 1.175 | 4.250 | 4.500 |
| 2-1/4 | 2.305 | 2.214 | 3.500 | 3.388 | 4.041 | 3.862 | 1.548 | 1.327 | 4.750 | 5.000 |
| 2-1/2 | 2.559 | 2.461 | 3.875 | 3.750 | 4.474 | 4.275 | 1.708 | 1.479 | 5.250 | 5.500 |

Notes : Thread Class of Fit : Plain Finish : 2A. Zinc Plated Finish : 2A before zinc plating and after zinc plating must meet 3A GO & 2A NO GO thread ring gage condition. Hot Dip Galvanized : 2A before coating.



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2.0 Mechanical Properties (For Full Size Bolt Testing):

| Standard / Grade | Length | Hardness | Tensile Strength | Grade Marking |
|----------------------|---|--------------|--------------------------|---------------|
| ASTM A307 Grade B | Less than 3 times the nominal diameter | 69 to 95 HRB | 60,000 to 100,000 PSI | 307B |
| | 3 times the nominal diameter and longer | 95 HRB Max | | |

Notes: The bolts will also have manufacturer’s marking on the head in addition to the grade marking as mentioned in the table.

3.0 Surface Finish: Plain/Zinc/HDG. Zinc & HDG details given in table below.

| Properties | Zinc Clear | Hot Dip Galvanized (HDG) |
|-------------------|--|--|
| Type | Trivalent (Cr+3) | RoHS Complaint |
| Color | Clear | |
| Coating Thickness | 0.0001" / 3 Microns or 0.0002" / 5 Microns Minimum | For sizes 3/8 " & under : minimum 0.0017" (43 microns) and for sizes over 3/8 " minimum 0.0020" (50 microns) |
| Specification | ASTM F1941 / F1941M. Fe/Zn 3AN or Fe/Zn 5AN | ASTM F2329M/F2329M or ASTM A153/A153M. |