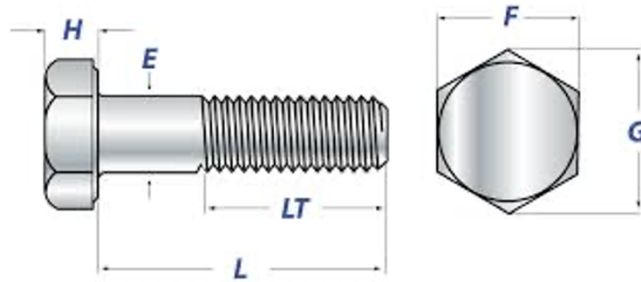


## PRODUCT DATA SHEET

USA/CA: [brightonBEST.com](http://brightonBEST.com) Europe: [brightonBEST.org](http://brightonBEST.org) AU: [brightonBEST.com.au](http://brightonBEST.com.au) NZ: [brightonBEST.co.nz](http://brightonBEST.co.nz) Brazil: [brightonBEST.com.br](http://brightonBEST.com.br)

### B7 Heavy Hex Cap Screws

#### 1.0 Dimensions: ASME B18.2.1



| 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<br>Ref | For Screw Lengths Over 6 Inches<br>Ref |
| 1/2                                    | 0.500         | 0.482 | 0.875              | 0.850 | 1.010                | 0.969 | 0.323       | 0.302 | 1.250   | 1.500                                  |
| 5/8                                    | 0.625         | 0.605 | 1.062              | 1.031 | 1.227                | 1.175 | 0.403       | 0.378 | 1.500   | 1.750                                  |
| 3/4                                    | 0.750         | 0.729 | 1.250              | 1.212 | 1.443                | 1.383 | 0.483       | 0.455 | 1.750   | 2.000                                  |
| 7/8                                    | 0.875         | 0.852 | 1.438              | 1.394 | 1.660                | 1.589 | 0.563       | 0.531 | 2.000   | 2.250                                  |
| 1                                      | 1.000         | 0.976 | 1.625              | 1.575 | 1.876                | 1.796 | 0.627       | 0.591 | 2.250   | 2.500                                  |
| 1-1/8                                  | 1.125         | 1.098 | 1.812              | 1.756 | 2.093                | 2.002 | 0.718       | 0.658 | 2.500   | 2.750                                  |
| 1-1/4                                  | 1.250         | 1.223 | 2.000              | 1.938 | 2.309                | 2.209 | 0.813       | 0.749 | 2.750   | 3.000                                  |

Notes: Thread Class Of Fit: Plain: 2A.

#### 2.0 Mechanical Properties: As per ASTM A193/A193M.

Nominal Sizes: 2 1/2" and under

Hardness : Maximum 321 HBW or 35 HRC

Tensile Strength : Minimum 125,000 PSI or 125 KSI

Yield Strength : Minimum 105,000 PSI or 105 KSI

Elongation : Minimum 16 %

Reduction Of Area : Minimum 50 %

Grade Marking: B7. In addition to grade marking, the screws will also have manufacturer's marking.

#### 3.0 Surface Finish:

Currently offered only in plain finish.

Disclaimer: The above is a compilation of data, from various industry standards. BBI has taken every effort to present the data accurately. However BBI cannot be held liable for any claim traceable to any errors typographical or otherwise contained herein.