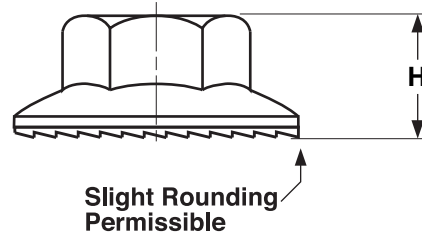
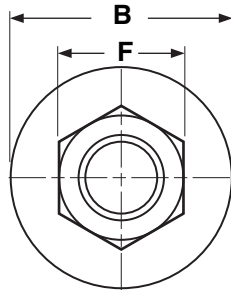


SERRATED LARGE FLANGE

Free-Spinning Lock-Nut



SERRATED LARGE FLANGE HEX LOCK NUTS

| Nominal Size or Basic Major Diameter of Thread | | F | | B | | H | |
|--|--------|------------------------|------|-----------------|-------|---------------|------|
| | | Width Across the Flats | | Flange Diameter | | Nut Thickness | |
| | | Max | Min | Max | Min | Max | Min |
| 1/4 | 0.2500 | .437 | .428 | .728 | .687 | .312 | .281 |
| 5/16 | 0.3125 | .500 | .489 | .823 | .790 | .375 | .343 |
| 3/8 | 0.3750 | .562 | .551 | .915 | .884 | .406 | .390 |
| 1/2 | 0.5000 | .750 | .736 | 1.205 | 1.175 | .515 | .485 |
| 5/8 | 0.6250 | .938 | .922 | 1.360 | 1.280 | .640 | .600 |

| | | | |
|--------------------------------|---|---|---|
| Description | Hex nut with a circular base flaring out from the bottom of the nut that is 6% to 25% wider than the flange of a standard serrated flange nut. The bearing surface of the flange has serrations which displace material on the mating surface when the nut is wrenched into place, forming a connection that resists loosening. | | |
| Applications/Advantages | Offers the same advantages of the standard serrated flange lock nut, including reusability, but will span even larger holes. Also has a more uniform bearing-stress to clamp-force ratio than the standard serrated flange nut. Grade 5 nuts are designed to be used with Grade 5 screws and bolts; Grade 8 nuts are designed to be used with Grade 8 screws and bolts. | | |
| | Low Carbon | Grade 5 | Grade 8 |
| Material | Low carbon steel | Nuts shall be made from a carbon steel which conforms to the following chemical composition requirements-- Carbon: 0.55% max.; Manganese: 0.30% min.; Phosphorus: 0.05% max.; Sulfur: 0.15% max. | Nuts shall be made from a carbon steel which conforms to the following chemical composition requirements-- Carbon: 0.55% max.; Manganese: 0.30% min.; Phosphorus: 0.04% max.; Sulfur: 0.05% max. |
| Hardness | Rockwell C40 minimum | Rockwell 32 HRC max | 1/4 thru 5/8" diameters: 24 - 32 HRC Over 5/8 thru 1" diameters: 26 - 34 HRC |
| Plating | See Appendix-A for plating information | Grade 5 Large Flange Nuts are usually supplied in zinc finish | Grade 8 Large Flange Nuts are usually supplied in zinc yellow finish |