

Light Hex,  
Full Height

FLEXLOC® ALL METAL LOCK



| FLEXLoc® LIGHT HEX FULL HEIGHT LOCK NUTS |        |                    |       |                               |                      |           |                              |             |   | SPS-N-16915 |
|--|--------|--------------------|-------|-------------------------------|----------------------|-----------|------------------------------|-------------|---|-------------|
| Nominal Size or Basic Thread Diameter    |        | F                  |       | B                             | G                    | H         | P                            | I           | Tensile Strength—Steel & Stainless (psi.) |             |
|  |        | Width Across Flats |       | Bearing Surface Outside Diam. | Width Across Corners | Thickness | Bearing Surface Inside Diam. | Side Height | Coarse Thread                             | Fine Thread |
|  |        | Max                | Min   | Min                           | Min                  | Max       | Max                          | Min         | Min                                       | Min         |
| 4  | 0.112  | 0.251              | 0.243 | 0.243                         | 0.268                | 0.155     | 0.155                        | 0.050       | 1,080                                     | 1,190       |
| 6  | 0.138  | 0.313              | 0.305 | 0.305                         | 0.339                | 0.180     | 0.181                        | 0.075       | 1,620                                     | 1,890       |
| 8  | 0.164  | 0.345              | 0.336 | 0.336                         | 0.375                | 0.243     | 0.208                        | 0.105       | 2,510                                     | 2,620       |
| 10                                       | 0.190  | 0.376              | 0.367 | 0.367                         | 0.410                | 0.243     | 0.230                        | 0.085       | 3,120                                     | 3,590       |
| 1/4 - 20                                 | 0.250  | 0.439              | 0.430 | 0.430                         | 0.481                | 0.290     | 0.293                        | 0.122       | 5,730                                     | -           |
| 1/4 - 28                                 | 0.250  | 0.439              | 0.430 | 0.430                         | 0.481                | 0.320     | 0.293                        | 0.135       | -   | 6,550       |
| 5/16                                     | 0.3125 | 0.502              | 0.492 | 0.492                         | 0.552                | 0.353     | 0.356                        | 0.150       | 9,600                                     | 9,950       |
| 3/8                                      | 0.375  | 0.564              | 0.553 | 0.553                         | 0.623                | 0.462     | 0.418                        | 0.210       | 13,800                                    | 14,500      |
| 7/16                                     | 0.4375 | 0.627              | 0.616 | 0.616                         | 0.694                | 0.462     | 0.487                        | 0.210       | 14,900                                    | 15,450      |
| 1/2                                      | 0.500  | 0.752              | 0.741 | 0.741                         | 0.836                | 0.602     | 0.551                        | 0.285       | 22,000                                    | 23,800      |
| 5/8                                      | 0.625  | 0.940              | 0.928 | 0.928                         | 1.049                | 0.759     | 0.676                        | 0.410       | 34,000                                    | 38,400      |
| 3/4                                      | 0.750  | 1.064              | 1.052 | 1.052                         | 1.192                | 0.884     | 0.807                        | 0.505       | 50,000                                    | 52,300      |
| 7/8                                      | 0.875  | 1.252              | 1.239 | 1.239                         | 1.405                | 1.009     | 0.938                        | 0.570       | 64,600                                    | 71,400      |
| 1  | 1.000  | 1.440              | 1.427 | 1.427                         | 1.619                | 1.134     | 1.064                        | 0.635       | 85,000                                    | 90,500      |

|                                |  |  |
|--------------------------------|--|--|
| <b>Description</b>             | An all-metal, one-piece, hex-shaped lock nut with a round collar at its back end. The collar is segmented with opposed slots cut into it above each corner of the nut. When the screw or bolt reaches the collar, the slotted portion expands which creates the prevailing torque locking action. The light hex variety has a lesser across the flats dimension resulting in a lighter-weight part with the same strength as a heavy hex variety.  |  |
| <b>Applications/Advantages</b> | The full height light hex lock nut has the same locking capability as the heavy hex FlexLoc® nut, but with greater wrench clearance. FlexLoc® nuts maintain their locking strength through 15 removals and re-applications and re-applications. The temperature service limit for steel nuts is 550°F (450°F if zinc or cadmium plated); the temperature limit for stainless nuts (with no additional finish) is 800°F. They have superior resistance to vibration compared to all other lock nut varieties and do not gall threads. |  |
| <b>Material</b>                | <b>Steel</b><br>Carbon steel.  | <b>Stainless</b><br>18-8 Stainless   |
| <b>Tensile Strength</b>        | Minimum tensile strength requirements for carbon steel flexible lock nuts are listed in above table.   |  |
| <b>Plating</b>                 | Unless specified as plain steel, flexible lock nuts are used with a zinc, zinc yellow or cadmium finish.   | Stainless flexible lock nuts are usually provided without any additional finish. |

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