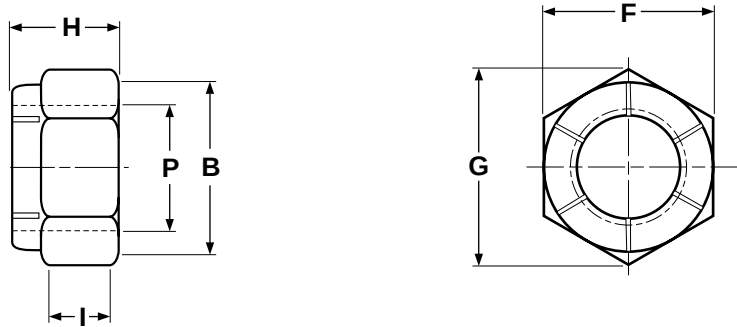


**Heavy Hex,  
Thin Height**

# Flexloc® All-Metal Lock Nuts

**Nuts**



| FLEXLOC® HEAVY HEX THIN HEIGHT LOCK NUTS |        |                    |       |                               |                      |           |                              |             |                         | SPS |
|------------------------------------------|--------|--------------------|-------|-------------------------------|----------------------|-----------|------------------------------|-------------|-------------------------|-----|
| Nominal Size or Basic Thread Diameter    |        | F                  |       | B                             | G                    | H         | P                            | I           | Tensile Strength (psi.) |     |
|                                          |        | Width Across Flats |       | Bearing Surface Outside Diam. | Width Across Corners | Thickness | Bearing Surface Inside Diam. | Side Height |                         |     |
|                                          |        | Max                | Min   | Min                           | Min                  | Max       | Max                          | Min         |                         |     |
| 1/4                                      | 0.2500 | 0.502              | 0.492 | 0.492                         | 0.561                | 0.219     | 0.293                        | 0.053       | 4,450                   |     |
| 5/16                                     | 0.3125 | 0.564              | 0.553 | 0.553                         | 0.631                | 0.266     | 0.356                        | 0.087       | 4,980                   |     |
| 3/8                                      | 0.3750 | 0.627              | 0.616 | 0.616                         | 0.703                | 0.282     | 0.418                        | 0.085       | 7,360                   |     |
| 7/16                                     | 0.4375 | 0.752              | 0.741 | 0.741                         | 0.846                | 0.328     | 0.487                        | 0.101       | 10,100                  |     |
| 1/2                                      | 0.5000 | 0.814              | 0.803 | 0.803                         | 0.917                | 0.328     | 0.551                        | 0.101       | 11,400                  |     |
| 5/8                                      | 0.6250 | 1.002              | 0.990 | 0.990                         | 1.130                | 0.399     | 0.676                        | 0.116       | 18,100                  |     |
| 3/4                                      | 0.7500 | 1.127              | 1.115 | 1.115                         | 1.271                | 0.415     | 0.807                        | 0.121       | 26,800                  |     |
| 7/8                                      | 0.8750 | 1.314              | 1.301 | 1.301                         | 1.484                | 0.477     | 0.938                        | 0.163       | 36,940                  |     |
| 1                                        | 1.0000 | 1.502              | 1.489 | 1.489                         | 1.699                | 0.571     | 1.064                        | 0.207       | 48,500                  |     |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 heavy hex, thin height variety is approximately 30% shorter than the full height nut.                                                                                                                                      |
| <b>Applications/ Advantages</b> | The thin height heavy hex FlexLoc® nut is used when an insufficient number of projecting threads are present to use a full height nut, or when a lighter-weight nut is required. The nut has a greater wrenching area than the thin height light hex nuts. FlexLoc nuts maintain their locking strength through 15 removals and re-applications, and at temperatures up to 550°F (450°F if zinc or cadmium plated). They have superior resistance to vibration compared to all other lock nut varieties and do not gall threads. |
| <b>Material</b>                 | Carbon steel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tensile Strength</b>         | Minimum tensile strength requirements for carbon steel FlexLoc nuts are listed in above table.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Plating</b>                  | Unless specified as plain steel, FlexLoc nuts are used with a zinc, zinc yellow or cadmium finish.                                                                                                                                                                                                                                                                                                                                                                                                                               |