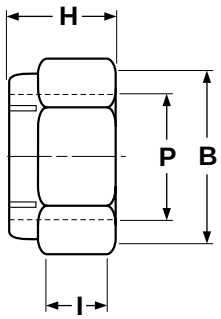
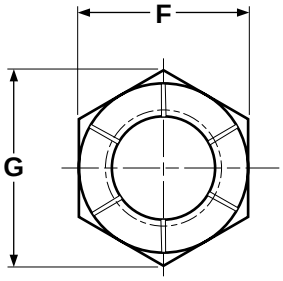
Flexloc® All-Metal Lock Nuts





FLEXLOC® HEAVY HEX THIN HEIGHT LOCK NUTS

SPS

Nominal Size or Basic Thread Diameter		F Width Across Flats		B Bearing Surface Outside Diam.	G Width Across Corners	H Thickness	P Bearing Surface Inside Diam.	I Side Height	Tensile Strength (psi.)
		Max	Min	Min	Min	Max	Max	Min	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

Description	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.
Applications/ Advantages	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.
Material	Carbon steel.
Tensile Strength	Minimum tensile strength requirements for carbon steel FlexLoc nuts are listed in above table.
Plating	Unless specified as plain steel, FlexLoc nuts are used with a zinc, zinc yellow or cadmium finish.

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