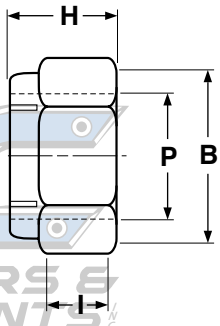
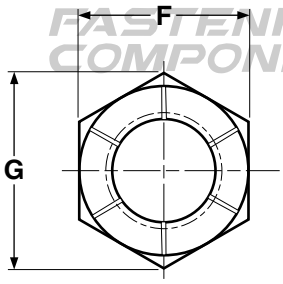
Flexloc® All-Metal Lock Nuts

LIght Hex, Thin Height





FlexLoc® Light 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	Coarse Thread	Fine Thread
		Max	Min	Min	Min	Max	Max	Min	Min	Min
6	0.138	0.313	0.305	0.305	0.347	0.141	0.181	0.036	1,270	1,420
8	0.164	0.345	0.336	0.336	0.383	0.188	0.208	0.070	1,960	2,060
10	0.190	0.376	0.367	0.367	0.419	0.188	0.230	0.065	2,340	2,800
1/4	0.250	0.439	0.430	0.430	0.491	0.219	0.293	0.075	4,450	5,090
5/16	0.3125	0.502	0.492	0.492	0.561	0.266	0.356	0.097	4,980	5,510
3/8	0.375	0.564	0.553	0.553	0.631	0.282	0.418	0.108	7,360	8,340
7/16	0.4375	0.627	0.616	0.616	0.703	0.328	0.487	0.138	10,100	11,300
7/16	0.4375	0.690	0.679	0.679	0.775	0.328	0.487	0.120	-	11,300
1/2	0.500	0.752	0.741	0.741	0.846	0.328	0.551	0.121	11,400	12,800
5/8	0.625	0.940	0.928	0.928	1.059	0.399	0.676	0.147	18,100	20,500
3/4	0.750	1.064	1.052	1.052	1.200	0.415	0.807	0.155	26,800	29,800
7/8	0.875	1.252	1.239	1.239	1.414	0.477	0.938	0.166	36,940	40,800
1	1.000	1.440	1.427	1.427	1.628	0.571	1.064	0.218	48,500	53,000

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 light hex, thin height variety is approximately 30% shorter than the full height nut.	
Applications/ Advantages	The thin height light hex flexible lock 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. Flexible lock nuts maintain their locking strength through 15 removals 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.	
Material	***Steel***	***Stainless***
	Carbon steel.	18-8 Stainless
Tensile Strength	Minimum tensile strength requirements for carbon steel flexible lock nuts nuts are listed in above table.	
Plating	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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