



FLEXLOC LIGHT HEX FULL HEIGHT LOCK NUTS										SPS-N-16915
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
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	0.250	0.439	0.430	0.430	0.481	0.290	0.293	0.122	5,730	-
1/4	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

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 variety has a lesser across the flats dimension resulting in a lighter-weight part with the same strength as a heavy hex variety.
Applications/ Advantages	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 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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