



CONICAL K-LOCK NUTS													SAE J238	
Nominal Size or Basic Thread Diameter		F		C	N		W		T	H		R		
		Across the Flats		Across Corners	Nut Height		Washer Diameter		Washer Material Thickness	Full Assembly Height		Washer Rim Width		
		Max	Min	Min	Max	Min	Max	Min	Ref	Max	Min	Max	Min	
4	0.1120	.250	.241	.272	.098	.092	.333	.323	.015	.150	.130	.015	.010	
6	0.1380	.312	.302	.344	.098	.092	.333	.323	.015	.150	.130	.015	.010	
8	0.1640	.344	.332	.378	.130	.117	.380	.370	.030	.195	.170	.015	.010	
10	0.1900	.376	.362	.410	.130	.117	.408	.395	.020	.195	.170	.015	.010	
1/4	0.2500	.438	.423	.482	.130	.117	.506	.494	.025	.195	.170	.015	.010	
5/16	0.3125	.500	.489	.557	.195	.180	.569	.555	.030	.265	.240	.020	.015	
3/8	0.3750	.562	.551	.628	.227	.210	.632	.618	.030	.300	.260	.020	.015	

<b>Description</b>	A hex nut pre-assembled with a free-spinning conical washer. A high tension is maintained in the screw and nut assembly as the nut is tightened against the bearing surface.
<b>Applications / Advantages</b>	Having the washer pre-assembled with the nut shortens installation time. Conical washer assemblies can compensate for joint contraction and expansion and can span slightly oversized holes.
<b>Material</b>	<b>Nuts:</b> Shall be made from a low carbon steel that conforms to the following chemical composition: <i>Carbon: 0.47% max.; Phosphorous: 0.12% max.; Sulfur: 0.15% max.</i> <b>Washers:</b> SAE 1050 - 1065 carbon steel, fabricated and heat-treated
<b>Hardness</b>	<b>Nuts:</b> No. 4 thru #12 diameter: No standard applies 1/4" and larger: Rockwell HRC 32 maximum  <b>Washers:</b> Rockwell C 44 - 48 Rockwell C 46 - 50 (when austempering process is used)
<b>Plating</b>	Nuts are usually supplied with a zinc or black oxide finish. See Appendix-A for more information.