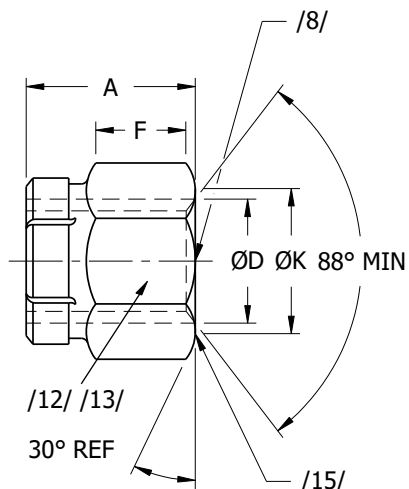
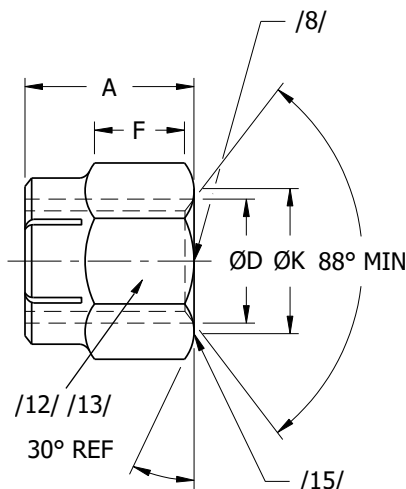


FED. SUPPLY CLASS

5310

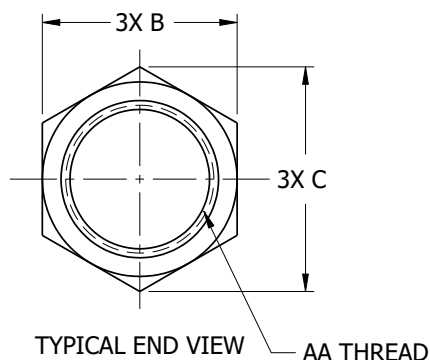


SEGMENTED
BEAM LOCK
STYLE A



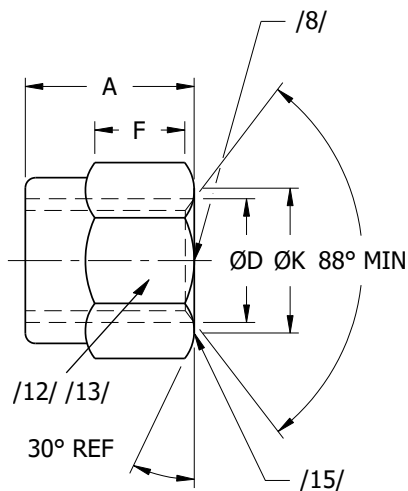
SEGMENTED
BEAM LOCK
STYLE B

SEGMENTED BEAM LOCK /14/



TYPICAL END VIEW

AA THREAD



DEFORMED LOCK /21/

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THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

ISSUE DATE: NOVEMBER 30, 2018

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION NEW
PROCUREMENT SPECIFICATION NASM25027	TITLE NUT, SELF-LOCKING, ALL METAL, HEX AND HEAVY HEX, NICKEL ALLOYS	CLASSIFICATION PART STANDARD NAS9931 SHEET 1 OF 7

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TABLE I – DIMENSIONS, HEX

AA NOMINAL THREAD SIZE	A		B /5/		C	ØD	F	BEARING SURFACE REQUIREMENTS /4/	ØK
	MAX	MIN	MAX	MIN	MIN	± 0.020	MIN		MIN
.2500	.328	.240	.439	.430	.482	.273	.116	.005	.410
.3125	.360	.271	.502	.492	.552	.336	.123	.006	.472
.3750	.469	.318	.564	.553	.622	.398	.153	.006	.533
.4375	.469	.435	.690	.679	.766	.467	.178	.007	.659
.5000	.610	.575	.752	.741	.837	.531	.221	.007	.721
.6250	.766	.732	.940	.928	1.051	.656	.274	.008	.908
.7500	.891	.855	1.064	1.052	1.191	.787	.316	.009	1.032
.8750	1.016	.965	1.252	1.239	1.403	.918	.570	.010	1.219
1.0000	1.141	1.010	1.440	1.427	1.615	1.044	.635	.011	1.407
1.1250	1.266	1.130	1.627	1.614	1.826	1.171	.710	.012	1.594
1.2500	1.454	1.300	1.814	1.801	2.038	1.295	.795	.013	1.781
1.3750	1.609	1.547	2.008	1.973	2.232	1.447	.890	.015	1.953
1.5000	1.640	1.578	2.197	2.159	2.444	1.568	.980	.016	2.139

TABLE II – DIMENSIONS, HEAVY HEX /20/

AA NOMINAL THREAD SIZE	A		B /5/		C	ØD	F	BEARING SURFACE REQUIREMENTS /4/	ØK
	MAX	MIN	MAX	MIN	MIN	± 0.020	MIN		MIN
.2500	.390	.360	.504	.492	.552	.273	.148	.005	.472
.3125	.453	.423	.566	.553	.622	.336	.166	.006	.533
.3750	.562	.532	.692	.679	.766	.398	.204	.006	.659
.4375	.625	.585	.781	.731	.867	.467	.219	.007	.711
.5000	.718	.688	.880	.865	.978	.531	.260	.007	.845
.6250	.874	.844	1.068	1.052	1.191	.656	.308	.008	1.032
.7500	1.015	.985	1.257	1.239	1.403	.787	.372	.009	1.219
.8750	1.140	1.110	1.446	1.427	1.615	.918	.428	.010	1.407
1.0000	1.312	1.250	1.634	1.614	1.826	1.044	.484	.011	1.594
1.1250	1.469	1.407	1.822	1.801	2.038	1.171	.540	.012	1.781
1.2500	1.672	1.610	2.011	1.973	2.232	1.295	.592	.013	1.953
1.3750	1.828	1.766	2.200	2.159	2.444	1.447	.648	.015	2.139
1.5000	1.953	1.891	2.388	2.344	2.622	1.568	.703	.016	2.324
1.6250	2.050	2.010	2.563	2.513	2.845	1.670	.754	.017	2.493
1.7500	2.276	2.250	2.766	2.715	3.075	1.818	.815	.018	2.695
1.8750	2.350	2.310	2.938	2.888	3.261	1.920	.866	.019	2.868
2.0000	2.469	2.343	3.142	3.086	3.497	2.065	.926	.020	3.066
2.2500	2.876	2.780	3.518	3.457	3.918	2.328	1.037	.020	3.437
2.5000	3.204	3.078	4.020	3.875	4.393	2.578	1.163	.020	3.855

TABLE III – PROOF LOADS /11/ /18/

AA NOMINAL THREAD SIZE /6/	STRESS AREA (As)	NI-CU ALLOYS 400/405		NI-CU-AL ALLOY 500		NI-CR-MO-CB ALLOY 625	
		HEX	HEAVY HEX /20/	HEX	HEAVY HEX /20/	HEX	HEAVY HEX /20/
	SQUARE INCHES	LBF MINIMUM	LBF MINIMUM	LBF MINIMUM	LBF MINIMUM	LBF MINIMUM	LBF MINIMUM
.2500-20 UNJC-3B	0.0318	2,500	2,700	4,100	4,500	3,800	4,100
.3125-18 UNJC-3B	0.0524	4,200	4,500	6,800	7,400	6,300	6,800
.3750-16 UNJC-3B	0.0775	6,200	6,700	10,100	10,900	9,300	10,000
.4375-14 UNJC-3B	0.1154	9,200	10,000	15,000	16,200	13,800	15,000
.5000-13 UNJC-3B	0.1419	11,400	12,300	18,400	19,900	17,000	18,400
.6250-11 UNJC-3B	0.2260	18,100	19,500	29,400	31,700	27,100	29,300
.7500-10 UNJC-3B	0.3345	26,800	28,900	43,500	47,000	40,100	43,400
.8750-9 UNJC-3B	0.4617	37,000	39,900	60,000	64,900	55,500	59,900
1.0000-8 UNJC-3B	0.6057	48,500	52,500	78,500	85,000	72,500	78,500
1.1250-7 UNJC-3B	0.7633	61,000	66,000	99,000	107,000	91,500	99,000
1.1250-8 UNJ-3B	0.7905	63,000	68,500	103,000	111,000	95,000	102,000
1.2500-7 UNJC-3B	0.9691	77,500	83,500	126,000	136,000	116,000	126,000
1.2500-8 UNJ-3B	0.9997	80,000	86,500	130,000	140,000	120,000	130,000
1.3750-6 UNJC-3B	1.1549	92,500	100,000	150,000	162,000	139,000	150,000
1.3750-8 UNJ-3B	1.2335	98,500	107,000	160,000	173,000	148,000	160,000
1.5000-6 UNJC-3B	1.4053	112,000	121,000	183,000	197,000	169,000	182,000
1.5000-8 UNJ-3B	1.4918	119,000	129,000	194,000	209,000	179,000	193,000
1.6250-8 UNJ-3B	1.7747	-	153,000	-	249,000	-	230,000
1.7500-5 UNJC-3B	1.8995	-	164,000	-	267,000	-	246,000
1.7500-8 UNJ-3B	2.0822	-	180,000	-	292,000	-	270,000
1.8750-8 UNJ-3B	2.4141	-	209,000	-	339,000	-	313,000
2.0000-4.5 UNJC-3B	2.4982	-	216,000	-	351,000	-	324,000
2.0000-8 UNJ-3B	2.7706	-	239,000	-	389,000	-	359,000
2.2500-4.5 UNJC-3B	3.2477	-	281,000	-	456,000	-	421,000
2.2500-8 UNJ-3B	3.5573	-	307,000	-	499,000	-	461,000
2.5000-4 UNJC-3B	3.9988	-	345,000	-	561,000	-	475,000
2.5000-8 UNJ-3B	4.4421	-	384,000	-	624,000	-	528,000

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