



BASIC SERIES	THREAD	A	B REF	C MIN	D DIA		H +.015 -.000	J +.015 -.000	K DIA ±.01	M ±.010	P (d) DIA +.010 -.000	R RAD	T REF
					Before Plate	After Plate							
NAS1103	10-32 UNF-3A	.376 .367	0.43	0.359	.1887 .1881	.1895 .1885	0.11	0.073	0.19	0.117	0.07	.020 .010	0.276
NAS1104	1/4-28 UNF-3A	.439 .430	0.51	0.422	.2487 .2481	.2495 .2485	0.125	0.083	0.25	0.116	0.076	.020 .010	0.316
NAS1105	5/16-24 UNF-3A	.502 .492	0.58	0.484	.3112 .3106	.3120 .3110	0.156	0.104	0.31	0.119	0.076	.020 .010	0.375
NAS1106	3/8-24 UNF-3A	.564 .553	0.65	0.547	.3737 .3731	.3745 .3735	0.188	0.125	0.38	0.12	0.106	.025 .015	0.391
NAS1107	7/16-20 UNF-3A	.690 .679	0.79	0.672	.4362 .4356	.4370 .4360	0.219	0.146	0.44	0.124	0.106	.025 .015	0.453
NAS1108	1/2-20 UNF-3A	.752 .741	0.87	0.734	.4987 .4981	.4995 .4985	0.25	0.167	0.50	0.123	0.106	.030 .020	0.453
NAS1109	9/16-18 UNF-3A	.877 .865	1.01	0.859	.5607 .5601	.5615 .5605	0.281	0.188	0.56	0.124	0.141	.035 .020	0.511
NAS1110	5/8-18 UNF-3A	.940 .928	1.09	0.922	.6232 .6226	.6240 .6230	0.312	0.208	0.62	0.124	0.141	.040 .025	0.543
NAS1112	3/4-16 UNF-3A	1.064 1.052	1.23	1.047	.7482 .7476	.7490 .7480	0.375	0.25	0.75	0.128	0.141	.045 .030	0.572
NAS1114	7/8-14 UNF-3A	1.252 1.239	1.44	1.234	.8732 .8726	.8740 .8730	0.438	0.292	0.88	0.134	0.141	.050 .035	0.652
NAS1116	1-12 UNF-3A	1.440 1.427	1.66	1.422	.9982 .9976	.9990 .9980	0.50	0.333	1.00	0.139	0.141	.060 .045	0.77

PROCUREMENT SPECIFICATION	TITLE	CLASSIFICATION
<b>NAS 498</b>	<b>BOLT, HEX HEAD, CLOSE TOLERANCE 160,000 PSI SHORT THREAD</b>	<b>STANDARD PART NAS 1103 THRU 1116</b>

**GRIP**

**NAS 1103 THRU 1116, LENGTH: ± .015**

DASH NO.	GRIP ± .010	NAS 1103	NAS 1104	NAS 1105	NAS 1106	NAS 1107	NAS 1108	NAS 1109	NAS 1110	NAS 1112	NAS 1114	NAS 1116
1	.062	.338	.378	.437	.453	.515	.515	.573	.605	.634	.714	.832
2	.125	.401	.441	.500	.516	.578	.578	.636	.668	.697	.777	.895
3	.188	.464	.504	.563	.579	.641	.641	.699	.731	.760	.840	.958
4	.250	.526	.566	.625	.641	.703	.703	.761	.793	.822	.902	1.020
5	.312	.588	.628	.687	.703	.765	.765	.823	.855	.884	.964	1.082
6	.375	.651	.691	.750	.766	.828	.828	.886	.918	.947	1.027	1.145
7	.438	.714	.754	.813	.829	.891	.891	.949	.981	1.010	1.090	1.208
8	.500	.776	.816	.875	.891	.953	.953	1.011	1.043	1.072	1.152	1.270
9	.562	.838	.878	.937	.953	1.015	1.015	1.073	1.105	1.134	1.214	1.332
10	.625	.901	.941	1.000	1.016	1.078	1.078	1.136	1.168	1.197	1.277	1.395
11	.688	.964	1.004	1.063	1.079	1.141	1.141	1.199	1.231	1.260	1.340	1.458
12	.750	1.026	1.066	1.125	1.141	1.203	1.203	1.261	1.291	1.322	1.402	1.520
13	.812	1.088	1.128	1.187	1.203	1.265	1.265	1.323	1.355	1.384	1.464	1.582
14	.875	1.151	1.191	1.250	1.266	1.328	1.328	1.386	1.418	1.447	1.527	1.645
15	.938	1.214	1.254	1.313	1.329	1.391	1.391	1.449	1.481	1.510	1.590	1.708
16	1.000	1.276	1.316	1.375	1.391	1.453	1.453	1.511	1.543	1.572	1.652	1.770
17	1.062	1.338	1.378	1.437	1.453	1.515	1.515	1.573	1.605	1.634	1.714	1.832
18	1.125	1.401	1.441	1.500	1.516	1.578	1.578	1.636	1.668	1.697	1.777	1.895
19	1.188	1.464	1.504	1.563	1.579	1.641	1.641	1.699	1.731	1.760	1.840	1.958
20	1.250	1.526	1.566	1.625	1.641	1.703	1.703	1.761	1.793	1.822	1.902	2.020
21	1.312	1.588	1.628	1.687	1.703	1.765	1.765	1.823	1.855	1.884	1.964	2.082
22	1.375	1.651	1.691	1.750	1.766	1.828	1.828	1.886	1.918	1.947	2.027	2.145
23	1.438	1.714	1.754	1.813	1.829	1.891	1.891	1.949	1.981	2.010	2.090	2.208
24	1.500	1.776	1.816	1.875	1.891	1.953	1.953	2.011	2.043	2.072	2.152	2.270
25	1.562	1.838	1.878	1.937	1.953	2.015	2.015	2.073	2.105	2.134	2.214	2.332
26	1.625	1.901	1.941	2.000	2.016	2.078	2.078	2.136	2.168	2.197	2.277	2.395
27	1.688	1.964	2.004	2.063	2.079	2.141	2.141	2.199	2.231	2.260	2.340	2.458
28	1.750	2.026	2.066	2.125	2.141	2.203	2.203	2.261	2.291	2.322	2.402	2.520
29	1.812	2.088	2.128	2.187	2.203	2.265	2.265	2.323	2.355	2.384	2.464	2.582
30	1.875	2.151	2.191	2.250	2.266	2.328	2.328	2.386	2.418	2.447	2.527	2.645
31	1.938	2.214	2.254	2.313	2.329	2.391	2.391	2.449	2.481	2.510	2.590	2.708
32	2.000	2.276	2.316	2.375	2.391	2.453	2.453	2.511	2.543	2.572	2.652	2.770
34	2.125	2.401	2.441	2.500	2.516	2.578	2.578	2.636	2.668	2.697	2.777	2.895
36	2.250	2.526	2.566	2.625	2.641	2.703	2.703	2.761	2.793	2.822	2.902	3.020
38	2.375	2.651	2.691	2.750	2.766	2.828	2.828	2.886	2.918	2.947	3.027	3.145
40	2.500	2.776	2.816	2.875	2.891	2.953	2.953	3.011	3.043	3.072	3.152	3.270
42	2.625	2.901	2.941	3.000	3.016	3.078	3.078	3.136	3.168	3.197	3.277	3.395
44	2.750	3.026	3.066	3.125	3.141	3.203	3.203	3.261	3.291	3.322	3.402	3.520
46	2.875	3.151	3.191	3.250	3.266	3.328	3.328	3.386	3.418	3.447	3.527	3.645
48	3.000	3.276	3.316	3.375	3.391	3.453	3.453	3.511	3.543	3.572	3.652	3.770
50	3.125	3.401	3.441	3.500	3.516	3.578	3.578	3.636	3.668	3.697	3.777	3.895
52	3.250	3.526	3.566	3.625	3.641	3.703	3.703	3.761	3.793	3.822	3.902	4.020
54	3.375	3.651	3.691	3.750	3.766	3.828	3.828	3.886	3.918	3.947	4.027	4.145
56	3.500	3.776	3.816	3.875	3.891	3.953	3.953	4.011	4.043	4.072	4.152	4.270
58	3.625	3.901	3.941	4.000	4.016	4.078	4.078	4.136	4.168	4.197	4.277	4.395
60	3.750	4.026	4.066	4.125	4.141	4.203	4.203	4.261	4.291	4.322	4.402	4.520
62	3.875	4.151	4.191	4.250	4.266	4.328	4.328	4.386	4.418	4.447	4.527	4.645
64	4.000	4.276	4.316	4.375	4.391	4.453	4.453	4.511	4.543	4.572	4.652	4.770
66	4.125	4.401	4.441	4.500	4.516	4.578	4.578	4.636	4.668	4.697	4.777	4.895
68	4.250	4.526	4.566	4.625	4.641	4.703	4.703	4.761	4.793	4.822	4.902	5.020
70	4.375	4.651	4.691	4.750	4.766	4.828	4.828	4.886	4.918	4.947	5.027	5.145
72	4.500	4.776	4.816	4.875	4.891	4.953	4.953	5.011	5.043	5.072	5.152	5.270
74	4.625	4.901	4.941	5.000	5.016	5.078	5.078	5.136	5.168	5.197	5.277	5.395
76	4.750	5.026	5.066	5.125	5.141	5.203	5.203	5.261	5.291	5.322	5.402	5.520
78	4.875	5.151	5.191	5.250	5.266	5.328	5.328	5.386	5.418	5.447	5.527	5.645
80	5.000	5.276	5.316	5.375	5.391	5.453	5.453	5.511	5.543	5.572	5.652	5.770
82	5.125	5.401	5.441	5.500	5.516	5.578	5.578	5.636	5.668	5.697	5.777	5.895
84	5.250	5.526	5.566	5.625	5.641	5.703	5.703	5.761	5.793	5.822	5.902	6.020
86	5.375	5.651	5.691	5.750	5.766	5.828	5.828	5.886	5.918	5.947	6.027	6.145
88	5.500	5.776	5.816	5.875	5.891	5.953	5.953	6.011	6.043	6.072	6.152	6.270
90	5.625	5.901	5.941	6.000	6.016	6.078	6.078	6.136	6.168	6.197	6.277	6.395
92	5.750	6.026	6.066	6.125	6.141	6.203	6.203	6.261	6.291	6.322	6.402	6.520
94	5.875	6.151	6.191	6.250	6.266	6.328	6.328	6.386	6.418	6.447	6.527	6.645
96	6.000	6.276	6.316	6.375	6.391	6.453	6.453	6.511	6.543	6.572	6.652	6.770