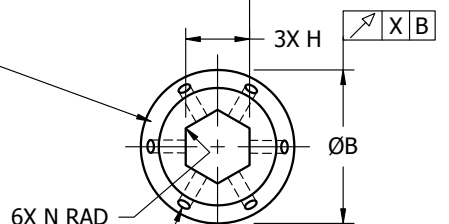
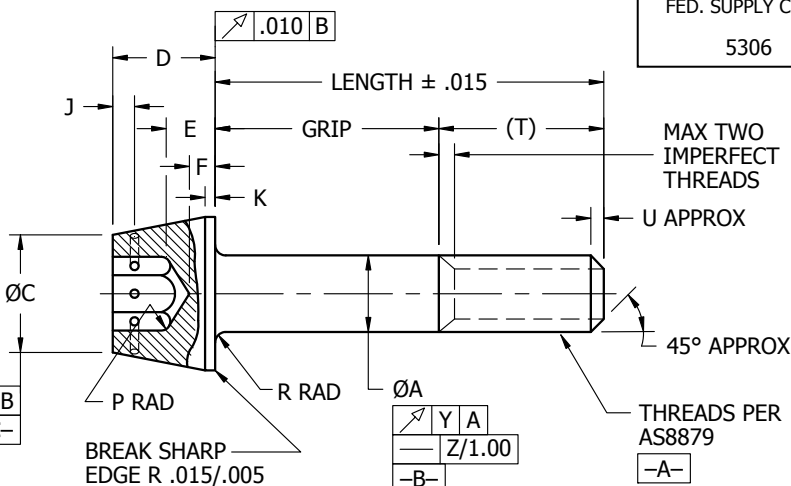


HEAD MARKING PER
NAS1347, TYPE IV,
ON TOP OR TAPERED
SLOPE OF HEAD



6 LOCKWIRE HOLES
WHEN DRILLED HEAD IS
SPECIFIED IN PART NUMBER



FED. SUPPLY CLASS

5306

MAX TWO
IMPERFECT
THREADS

THREADS PER
AS8879

TABLE I – DIMENSIONS

FIRST DASH NO.	THREAD	ØA		ØB		ØC	D	E	F MIN	H HEX	
		MAX	MIN	MAX	MIN					MAX	MIN
4	.2500-28 UNJF-3A	.2492	.2477	.438	.428	.342	.250	.112	.068	.1900	.1880
5	.3125-24 UNJF-3A	.3117	.3102	.531	.521	.394	.312	.144	.094	.2210	.2190
6	.3750-24 UNJF-3A	.3742	.3727	.649	.639	.520	.375	.183	.116	.3150	.3130
7	.4375-20 UNJF-3A	.4367	.4347	.750	.740	.534	.438	.208	.141	.3150	.3130
8	.5000-20 UNJF-3A	.4991	.4971	.828	.816	.625	.500	.247	.169	.3785	.3755
9	.5625-18 UNJF-3A	.5616	.5596	.938	.928	.723	.562	.279	.190	.4410	.4380
10	.6250-18 UNJF-3A	.6240	.6220	1.050	1.040	.826	.625	.317	.216	.5035	.5005
12	.7500-16 UNJF-3A	.7488	.7468	1.230	1.220	.921	.750	.385	.273	.5660	.5630
14	.8750-14 UNJF-3A	.8737	.8707	1.438	1.428	1.083	.875	.450	.327	.6295	.6257
16	1.0000-14 UNJ-3A	.9985	.9955	1.625	1.615	1.249	1.000	.527	.381	.7547	.7507
18	1.1250-12 UNJF-3A	1.1240	1.1210	1.875	1.865	1.275	1.125	.589	.443	.7547	.7507
20	1.2500-12 UNJ-3A	1.2490	1.2460	2.125	2.115	1.598	1.250	.667	.475	1.005	1.001
22	1.3750-12 UNJF-3A	1.3740	1.3700	2.313	2.303	1.768	1.375	.746	.531	1.131	1.126
24	1.5000-12 UNJF-3A	1.4990	1.4950	2.500	2.490	1.931	1.500	.823	.586	1.256	1.251

FIRST DASH NO.	J	K	ØM +.005 -.000	N RADIUS MAX	P RADIUS		R RADIUS		(T)	U	RUNOUT TOLERANCE SHANK STRAIGHTNESS		
					MAX	MIN	MAX	MIN			X	Y	Z
4	.063	.063	.046	.010	.020	.010	.041	.031	.500	.03	.005	.007	.002
5	.063	.063	.070	.010	.020	.010	.041	.031	.562	.05	.006	.008	.004
6	.094	.063	.070	.011	.020	.010	.057	.047	.688	.05	.008	.010	.004
7	.094	.063	.070	.011	.020	.010	.057	.047	.812	.05	.009	.011	.006
8	.094	.063	.070	.011	.020	.010	.057	.047	.812	.05	.010	.012	.006
9	.125	.094	.070	.011	.020	.010	.057	.047	.875	.06	.011	.014	.006
10	.188	.094	.070	.019	.020	.010	.073	.063	.938	.06	.012	.016	.006
12	.188	.094	.070	.022	.030	.015	.073	.063	1.062	.06	.015	.018	.006
14	.188	.094	.070	.022	.030	.015	.073	.063	1.188	.08	.018	.022	.009
16	.188	.094	.070	.022	.030	.015	.073	.063	1.312	.08	.020	.025	.009
18	.188	.094	.070	.022	.030	.015	.073	.063	1.500	.09	.022	.026	.009
20	.188	.125	.070	.022	.030	.015	.089	.077	1.625	.09	.025	.032	.009
22	.188	.125	.070	.022	.030	.015	.089	.077	1.750	.09	.028	.035	.012
24	.188	.156	.070	.022	.030	.015	.089	.077	1.875	.09	.030	.039	.012

INACTIVE FOR NEW DESIGN AFTER MARCH 15, 1958. SEE NASM20004-20024.
FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.

④ COMPLETELY REVISED

THIRD ANGLE PROJECTION		CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 4
PROCUREMENT SPECIFICATION	TITLE BOLT, INTERNAL WRENCHING, STEEL, HIGH TENSILE AND HIGH FATIGUE STRENGTH	④	CLASSIFICATION PART STANDARD
NOTED			Document SHEET 1 OF 4

MATERIAL:

ALLOY STEEL IN ACCORDANCE WITH THE PROCUREMENT SPECIFICATION.

HEAT TREATMENT:

DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER AMS2759:
160 TO 180 KSI FTU.

FINISH:

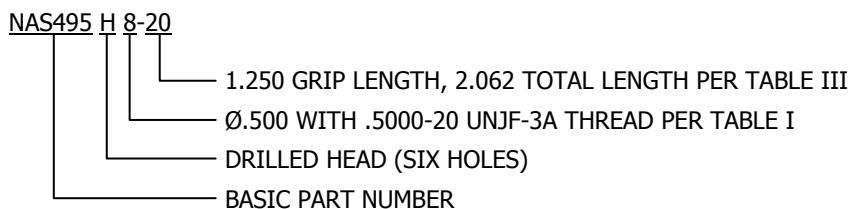
CADMIUM PLATING PER AMS-QQ-P-416, TYPE II, CLASS 2.

CODE:

FIRST DASH NUMBER INDICATES SIZE PER TABLE I.
SECOND DASH NUMBER SHALL DESIGNATE PREFERRED GRIP AND LENGTHS IN .125 INCREMENTS PER
TABLE III. INTERMEDIATE LENGTHS IN .062 INCREMENTS MAY BE DESIGNATED BY
INTERMEDIATE DASH NUMBERS.
ADD "H" IN PLACE OF THE FIRST DASH TO DESIGNATE DRILLED HEAD.

EXAMPLES OF PART NUMBER:

NAS495 H 8-20



1.250 GRIP LENGTH, 2.062 TOTAL LENGTH PER TABLE III
Ø.500 WITH .5000-20 UNJF-3A THREAD PER TABLE I
DRILLED HEAD (SIX HOLES)
BASIC PART NUMBER

NAS495-8-12 = .5000-20 BOLT, 1.562 INCHES LONG, UNDRILLED.
NAS495H8-12 = .5000-20 BOLT, 1.562 INCHES LONG, DRILLED HEAD.

NOTES:

- (1) SURFACE ROUGHNESS: SHANK, HEAD BEARING SURFACE, AND THREADS: 32 MICROINCHES Ra; FILLET RADIUS: 20 MICROINCHES Ra; ALL OTHER SURFACES: 125 MICROINCHES Ra PER ASME B46.1.
- (2) IDENTIFICATION PER NAS1347, TYPE IV ON TOP OR SIDE OF HEAD.
- (3) MAGNETIC PARTICLE INSPECTION: 100% PER ASTM E1444.
- (4) TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS ±.010.
- (5) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (6) LOCK WIRE HOLES: REMOVE ALL BURRS AND SHARP EDGES.
- (7) APPLICATION WASHER: NAS143.

REVISION
4
NAS495
SHEET 2

④ COMPLETELY REVISED



Documents
SHEET 2

Document Sharing Hub