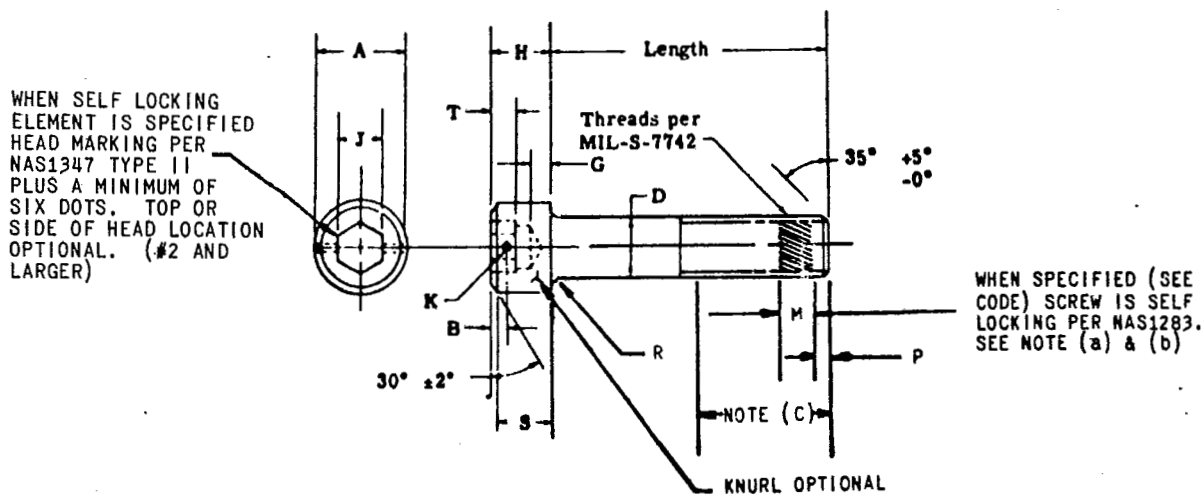


NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 610 SHOREHAM BUILDING, WASHINGTON 8, D. C.



D SHANK DIA.			A DIA.		H HEIGHT		S HEIGHT		J WIDTH		T DEPTH	G
Nominal	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Min.
0-80NF3A	.0600	.0583	.096	.093	.060	.057	.056	.054	.051	.050	.030	.014
1-64NC3A	.0730	.0711	.118	.114	.073	.070	.068	.066	.051	.050	.039	.017
2-56NC3A	.0860	.0840	.140	.136	.086	.083	.081	.078	.064	.063	.044	.023
4-40NC3A	.1120	.1096	.183	.178	.112	.109	.105	.101	.079	.078	.061	.029
6-32NC3A	.1380	.1353	.226	.221	.138	.134	.129	.125	.095	.093	.071	.038
8-32NC3A	.1640	.1613	.270	.265	.164	.160	.152	.148	.127	.125	.088	.047
10-32NF3A	.1900	.1867	.313	.306	.190	.185	.176	.172	.158	.156	.109	.053
1/4-28UNF3A	.2500	.2464	.375	.367	.250	.244	.232	.226	.190	.188	.126	.080
5/16-24UNF3A	.3125	.3084	.438	.429	.313	.306	.289	.283	.221	.218	.163	.100
3/8-24UNF3A	.3750	.3705	.563	.552	.375	.368	.347	.341	.316	.313	.186	.120
7/16-20UNF3A	.4375	.4326	.625	.615	.438	.430	.405	.397	.316	.313	.213	.140
1/2-20UNF3A	.5000	.4948	.750	.739	.500	.492	.462	.454	.378	.375	.245	.160
5/8-18UNF3A	.6250	.6191	.875	.863	.625	.616	.577	.569	.503	.500	.307	.200

③ INACTIVE FOR DESIGN
AFTER 30 APRIL 1962
SEE DRAWING NAS1351
AND NAS1352

SCREW SIZE	FILLET RADIUS		SAFETY WIREHOLE WHEN SPECIFIED	
	Min.	Max.	K $\pm$.005 - .003	B $\pm$.010
0	-	.005		
1	-	.005		
2	-	.005		
4	.005	.010	.037	.034
6	.005	.010	.037	.044
8	.008	.015	.037	.049
10	.008	.015	.037	.056
1/4	.010	.015	.063	.075
5/16	.010	.020	.063	.094
3/8	.010	.020	.063	.113
7/16	.015	.020	.063	.131
1/2	.020	.030	.063	.150
5/8	.025	.035	.063	.188

③

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CUSTODIAN: NATIONAL AEROSPACE STANDARDS COMMITTEE

PROCUREMENT SPECIFICATION
NOTED

TITLE
SCREWS-SOCKET HEAD CAP
PLAIN AND SELF LOCKING

CLASSIFICATION
STANDARD PART

NAS 608

SHEET 1 OF 2

Printed and distributed by: National Standards Association, Inc.

1315 Fourteenth Street, N. W.
Washington 5, D. C.

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Full document details: AIA NAS608 1962

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APPROVAL DATE 31 MARCH 1956 REVISION ① 30 JUNE 1959 ② 31 MARCH 1961 ③ 30 APRIL 1962

NATIONAL AEROSPACE STANDARD

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC., 610 SHOREHAM BUILDING, WASHINGTON 5, D. C.

DASH NO. (Upper Figure) AND COMPLETE THREAD LENGTH (Lower Figure)

Screw Length	Thread Size												
	# 0	# 1	# 2	# 4	6	8	10	1/4	5/16	3/8	7/16	1/2	5/8
1/8 +.020 -.010	080-2	164-2											
3/16 +.020 -.010	080-3	164-3	256-3										
1/4 +.020 -.010	080-4	164-4	256-4	440-4	632-4	832-4							
3/8 +.020 -.010	080-6	164-6	256-6	440-6	632-6	832-6	3-6	4-6	5-6				
1/2 +.020 -.010			256-8	440-8	632-8	832-8	3-8	4-8	5-8	6-8			
5/8 +.020 -.010				440-10	632-10	832-10	3-10	4-10	5-10	6-10			
3/4 +.020 -.010				440-12 .72	632-12	832-12	3-12	4-12	5-12	6-12			
7/8 +.020 -.010					632-14 .78	832-14 .83	3-14 .79	4-14	5-14	6-14			
1 +.020 -.010					632-16 .78	832-16 .83	3-16 .79	4-16 .88	5-16 .97	6-16	7-16	8-16	10-16
1-1/4 +.025 -.013						832-20 .83	3-20 .79	4-20 .88	5-20 .97	6-20 1.06	7-20 1.16	8-20	10-20
1-1/2 +.030 -.015						832-24 .83	3-24 .79	4-24 .88	5-24 .97	6-24 1.06	7-24 1.16	8-24 1.25	10-24 1.44
1-3/4 +.035 -.018							3-28 .79	4-28 .88	5-28 .97	6-28 1.06		8-28 1.25	10-28 1.44
2 +.040 -.020							3-32 .79	4-32 .88	5-32 .97	6-32 1.06	7-32 1.16	8-32 1.25	10-32 1.44
2-1/4 + -.031								4-36 .88	5-36 .97	6-36 1.06		8-36 1.25	
2-1/2 + -.031									5-40 .97	6-40 1.06		8-40 1.25	10-40 1.44
3 + -.031										6-48 1.13		8-48 1.25	

MATERIAL: STEEL - HIGH GRADE ALLOY HEAT TREATED TO ROCKWELL OF C36-43.
CORROSION RESISTANT STEEL - AISI 302, 303 OR 304 TENSILE STRENGTH 75,000 PSI.

FINISH: STEEL: PLATED - CADMIUM PLATE TO SPECIFICATION QQ-P-416 TYPE I CLASS 3, TYPE II CLASS 3 OR BLACK OXIDE AS CODED.

CODE: CORROSION RESISTANT STEEL - PASSIVATE
FIRST DASH NO. = DIAMETER IN 1/16 INCH INCREMENTS AS TABULATED.
SECOND DASH NO. = LENGTH IN 1/16 INCH INCREMENTS AS TABULATED.
LETTER BEFORE FIRST DASH NO. = MATERIAL; C = CRES STEEL, "-" = STEEL.
LETTER FOLLOWING SECOND DASH NO. = FINISH; P = CAD. PLATE, TYPE I, T = CAD. PLATE, TYPE II
OMIT FOR BLACK OXIDE OR CRES PASSIVATED.
LETTER BETWEEN DASH NO. = H FOR DRILLED HEAD, "-" FOR UNDRILLED, LE FOR OPTIONAL SELF LOCKING ELEMENT, LL FOR STRIP TYPE LOCKING ELEMENT, LN FOR BUTTON TYPE LOCKING ELEMENT.

EXAMPLE OF PART NUMBER:
NAS608-4-BT = SOCKET HEAD CAP SCREW 1/4 DIA. 1/2 LONG TYPE II CADMIUM PLATED STEEL.
NAS608-4-8P = SOCKET HEAD CAP SCREW 1/4 DIA. 1/2 LONG TYPE I CADMIUM PLATED STEEL.
NAS608-4LE8P = SOCKET HEAD CAP SCREW 1/4 DIA. 1/2 LONG TYPE I CADMIUM PLATED STEEL WITH OPTIONAL SELF LOCKING ELEMENT.

NOTES:
(a) NAS608C4LE8 = SOCKET HEAD CAP SCREW 1/4 DIA. 1/2 LONG CRES WITH OPTIONAL SELF LOCKING ELEMENT.
(a) "M" MIN. (5 THREAD PITCHES) = REGION OF MINIMUM ENGAGEMENT WITH FULL FEMALE THREAD REQUIRED TO MEET MIL-F-18240 REQUIREMENTS. LOCKING ELEMENT WITHIN "M" REGION MUST DEVELOP REQUIRED TORQUE WHEN TESTED PER MIL-F-18240. LENGTH OR DIAMETER OF LOCKING ELEMENT MAY BE MORE OR LESS THAN "M" PROVIDING ALL OTHER REQUIREMENTS ARE MET.
(b) "P" = ONE COMPLETE THREAD PLUS UNTHREADED PORTION OF END. FOR EASE IN STARTING, LOCKING ELEMENT SHALL NOT BE EFFECTIVE WITHIN THIS AREA.
(c) SEE THREAD MIN LENGTH NOTES IN ABOVE TABLE.

PROCUREMENT SPECIFICATION:
③ FF-S-86A TYPE I EXCEPT AS NOTED HEREIN. MIL-F-18240 EXCEPT AS NOTED HEREIN FOR SELF LOCKING REQUIREMENTS.

③ INACTIVE FOR DESIGN AFTER 30 APRIL 1962
SEE DRAWING NAS1351 AND NAS1352

CUSTODIAN: NATIONAL AEROSPACE STANDARDS COMMITTEE

PROCUREMENT
SPECIFICATION

NOTED

TITLE

SCREWS-SOCKET HEAD CAP
PLAIN AND SELF LOCKINGCLASSIFICATION
STANDARD PARTNAS608 Documents
SHEET 2