

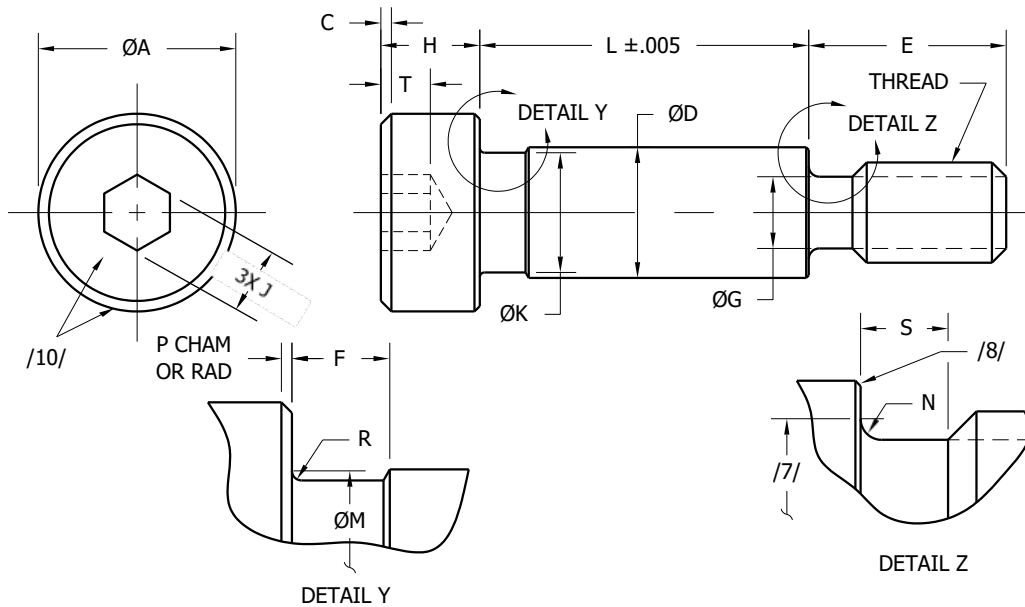


FIGURE 1

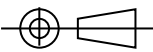
TABLE I – DIMENSIONS

NOMINAL SIZE	THREAD	ØA		C	ØD		E		F	ØG	
		MAX	MIN		MAX	MIN	MAX	MIN		MAX	MIN
.1250	.1120-40 UNC-3A	.250	.235	.008	.1230	.1210	.157	.137	.040	.076	.069
.1560	.1380-32 UNC-3A	.281	.266	.008	.1540	.1520	.187	.167	.040	.100	.093
.1875	.1640-32 UNC-3A	.312	.296	.012	.1850	.1830	.189	.169	.040	.120	.112
.2500	.1900-24 UNC-3A	.375	.357	.020	.2480	.2460	.375	.355	.093	.142	.133
.3125	.2500-20 UNC-3A	.438	.419	.026	.3105	.3085	.438	.418	.093	.193	.182
.3750	.3125-18 UNC-3A	.562	.543	.031	.3730	.3710	.500	.480	.093	.249	.237
.5000	.3750-16 UNC-3A	.750	.729	.040	.4980	.4960	.625	.595	.093	.304	.291
.6250	.5000-13 UNC-3A	.875	.853	.050	.6230	.6210	.750	.720	.093	.414	.397
.7500	.6250-11 UNC-3A	1.000	.977	.069	.7480	.7460	.875	.845	.093	.521	.502
1.0000	.7500-10 UNC-3A	1.312	1.287	.083	.9980	.9960	1.000	.970	.125	.638	.616

TABLE I – DIMENSIONS (CONTINUED)

NOMINAL SIZE	THREAD	H		J		K	S	M	N		P	R	T
		MAX	MIN	MIN	MAX				MAX	MIN			
.1250	.1120-40 UNC-3A	.125	.115	.0781	.0791	.108	.078	.138	.016	.010	.008	.006	.067
.1560	.1380-32 UNC-3A	.125	.115	.0937	.0952	.140	.063	.172	.018	.012	.008	.007	.067
.1875	.1640-32 UNC-3A	.156	.146	.0937	.0952	.154	.069	.207	.018	.012	.008	.008	.079
.2500	.1900-24 UNC-3A	.188	.177	.1250	.1270	.227	.083	.276	.023	.017	.010	.009	.094
.3125	.2500-20 UNC-3A	.219	.209	.1562	.1587	.289	.100	.345	.028	.022	.010	.012	.117
.3750	.3125-18 UNC-3A	.250	.240	.1875	.1900	.352	.111	.413	.031	.025	.010	.015	.141
.5000	.3750-16 UNC-3A	.312	.302	.2500	.2530	.477	.125	.550	.035	.029	.010	.020	.188
.6250	.5000-13 UNC-3A	.375	.365	.3125	.3160	.602	.154	.687	.042	.036	.015	.024	.234
.7500	.6250-11 UNC-3A	.500	.490	.3750	.3790	.727	.182	.826	.051	.045	.015	.030	.281
1.0000	.7500-10 UNC-3A	.625	.610	.5000	.5050	.977	.200	1.098	.055	.049	.020	.040	.375

THIRD
ANGLE
PROJECTION



CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
NEW

PROCUREMENT
SPECIFICATION
NASM21472

TITLE
**SCREW, SHOULDER, SOCKET-HEAD,
HEXAGON, CORROSION-RESISTANT STEEL, UNC-3A**

CLASSIFICATION
PART STANDARD

NAS9930
SHEET 1 OF 4
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MATERIAL: CRES IN ACCORDANCE WITH ASTM F837, 304 (UNS S30400), 304L (UNS S30403), 305 (UNS S30500), 384 (UNS S38400), 18-9LW (UNS S30430), 302HQ (UNS S30433), 316 (UNS S31600), 316L (UNS S31603), CONDITION CW, EXCEPT SULFUR CONTENT SHALL NOT EXCEED 0.03 PERCENT.

FINISH: CRES SERIES 300 SHALL BE PASSIVATED IN ACCORDANCE WITH AMS2700, METHOD 1, TYPE 6 OR 7, CLASS 4.

CODE:

NAS9930 C 36

DASH NUMBER FROM TABLE II

MATERIAL: NO GRADE SUFFIX INDICATES ALL GRADES OF CRES ARE ACCEPTABLE.
"C" SUFFIX INDICATES ONLY GRADES 316 OR 316L ARE ACCEPTABLE.

BASIC NAS NUMBER

EXAMPLE OF PART NUMBER:

NAS9930C36 = SCREW, SHOULDER, SOCKET-HEAD, 316 OR 316L CORROSION-RESISTANT STEEL, .2500 INCH NOMINAL SIZE, 1.250 NOMINAL SHOULDER LENGTH, .1900-24 UNC-3A NOMINAL THREAD SIZE.

NOTES:

- (1) SHOULDER SCREWS SHALL COMPLY WITH ASME B18.3, TABLE 13 FOR DIMENSIONS AND TOLERANCES.
- (2) DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (3) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (4) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (5) MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH $H = 200$ OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A342/A342M, TEST METHOD 3.
- (6) THREADS SHALL BE IN ACCORDANCE WITH ASME B1.1. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH ASME B1.3, SYSTEM 22.
- /7/ THIS DIAMETER NOT TO EXCEED MAJOR DIAMETER OF THREAD.
- /8/ THE EDGE OF THE SHOULDER MAY BE BROKEN. THE RADIUS OR CHAMFER SHALL NOT EXCEED .005 INCH FOR SHOULDERS WITH NOMINAL DIAMETERS OF .375 INCH AND UNDER. THE RADIUS OR CHAMFER SHALL NOT EXCEED .008 INCH FOR SHOULDERS WITH NOMINAL DIAMETERS OVER .375 INCH.
- (9) THE NECK UNDER THE SHOULDER SHALL ALLOW THE SHOULDER TO SEAT AGAINST THE FACE OF A STANDARD BASIC "GO" THREAD RING GAGE.

REVISION

NEW

NAS9930

SHEET 2



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