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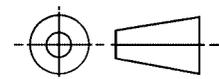
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THIRD ANGLE PROJECTION



ISSUED 1999-12

PREPARED BY SAE COMMITTEE E-25

PROCUREMENT SPECIFICATION: NONE

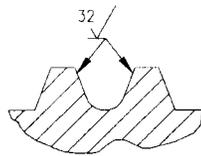
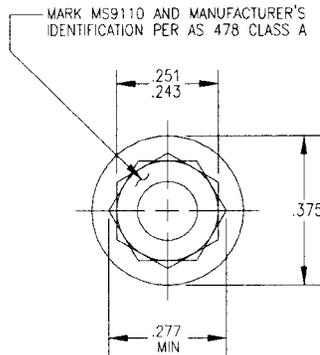


**AEROSPACE STANDARD**

BOLT, MACHINE-DOUBLE HEXAGON EXTENDED  
WASHER HEAD, CLOSE TOLERANCE SHANK,  
AMS 5731, .190-32 UNJF-3A

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SHEET 1 OF 3

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SECTION THRU THREAD PROFILE

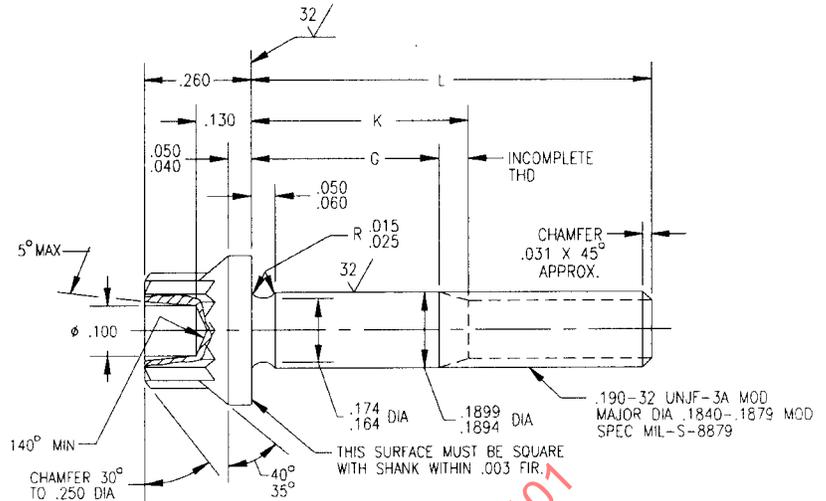


FIGURE 1 - BOLT

TABLE I - PART NUMBERS AND DIMENSIONS

PART NO.	G GRIP	L LENGTH	K MAX	APPROX WEIGHT LB/100	PART NO.	G GRIP	L LENGTH	K MAX	APPROX WEIGHT LB/100
MS9110-02	.125	.531	.198	.80	MS9110-16	.875	1.406	.948	1.49
MS9110-03	.125	.594	.198	.84	MS9110-17	.937	1.469	1.010	1.54
MS9110-04	.125	.656	.198	.88	MS9110-18	1.000	1.531	1.072	1.59
MS9110-05	.188	.719	.260	.94	MS9110-19	1.125	1.656	1.193	1.70
MS9110-06	.250	.781	.322	.99	MS9110-20	1.250	1.781	1.322	1.80
MS9110-07	.312	.844	.384	1.04	MS9110-21	1.375	1.906	1.448	1.90
MS9110-08	.375	.906	.448	1.09	MS9110-22	1.500	2.031	1.573	2.00
MS9110-09	.437	.969	.510	1.14	MS9110-23	1.625	2.156	1.698	2.10
MS9110-10	.500	1.031	.572	1.19	MS9110-24	1.750	2.281	1.823	2.20
MS9110-11	.562	1.094	.635	1.24	MS9110-25	1.875	2.406	1.948	2.30
MS9110-12	.625	1.156	.698	1.29	MS9110-26	2.000	2.531	2.072	2.40
MS9110-13	.688	1.219	.760	1.34					
MS9110-14	.750	1.281	.823	1.39					
MS9110-15	.812	1.344	.885	1.44					