

RATIONALE

FIGURE 1 REDRAWN AND UPDATED, REVISE DATUM LETTERING SCHEME, DELETE TRANSITION RADIUS FROM WRENCH FLATS TO BASE FLANGE, REVISE LEAD THREAD CHAMFER TO CONFORM TO AS1132J, UPDATE FPI REFERENCE, REVISE COLD ROLLING NOTE, ADD NEW NOTE 9 FOR USE OF EXISTING INVENTORY, GENERAL EDITORIAL UPDATES.

AS3159B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

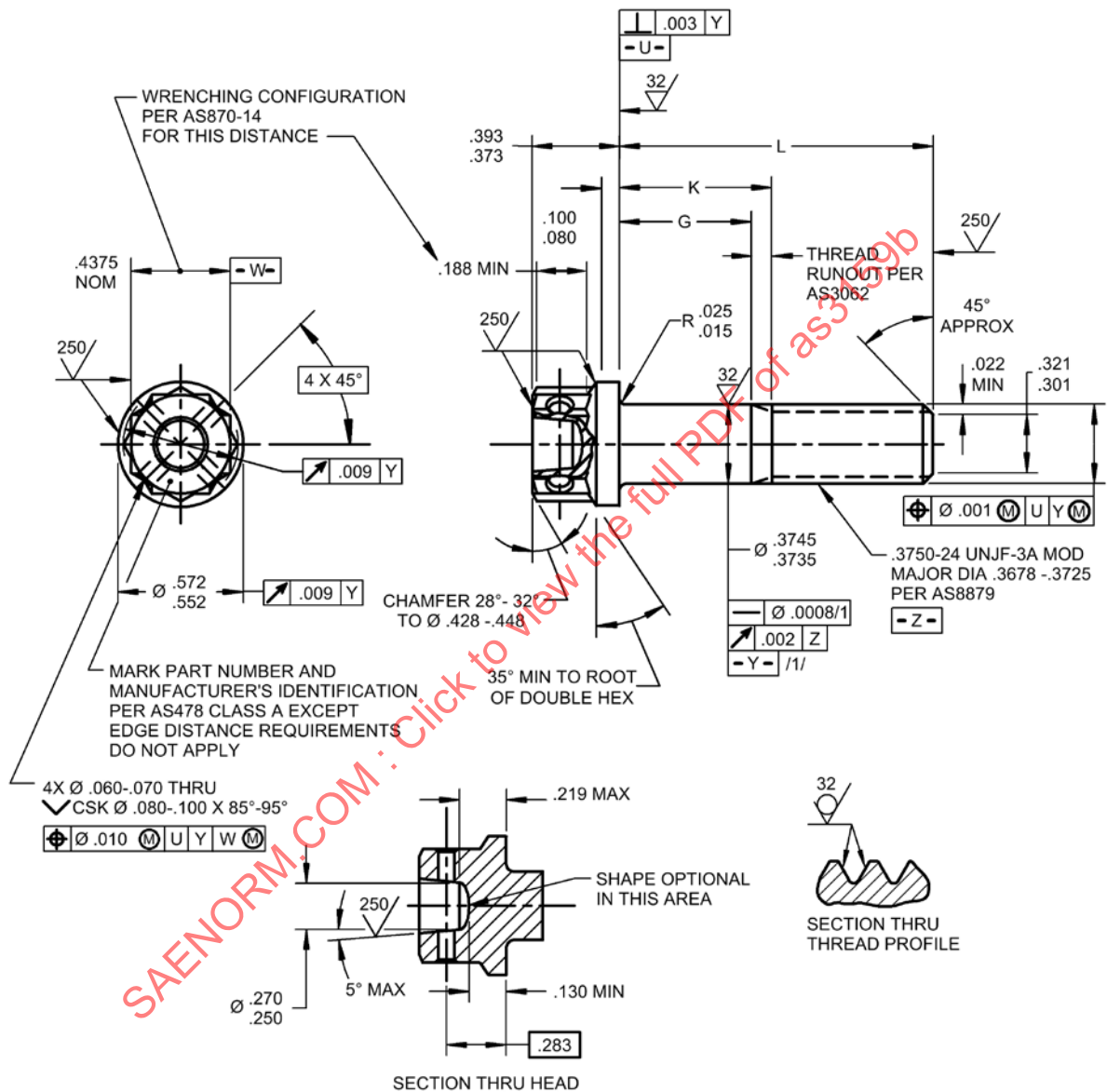
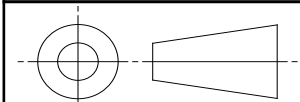


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS3159B/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7461 /8/



AEROSPACE STANDARD

BOLT, MACHINE-DOUBLE HEXAGON EXTENDED
WASHER HEAD, DRILLED, CLOSE TOLERANCE SHANK,
TI ALLOY, UNS R56400, 160 KSI MIN .3750-24, UNJF-3A

AS3159™
SHEET 1 OF 3

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TABLE 1 - PART NUMBERS AND DIMENSIONS G, K, L, AND APPROX. MASS

PART NUMBER	G MIN (GRIP)	K MAX	L	APPROX MASS LB/100	PART NUMBER	G MIN (GRIP)	K MAX	L	APPROX MASS LB/100
AS3159-03	.105	.198	.838-.858	2.31	AS3159-42	2.542	2.635	3.275-3.295	6.67
AS3159-04	.167	.260	.900-.920	2.42	AS3159-43	2.605	2.698	3.338-3.358	6.78
AS3159-05	.229	.322	.962-.982	2.53	AS3159-44	2.667	2.760	3.400-3.420	6.90
AS3159-06	.292	.385	1.025-1.045	2.64	AS3159-45	2.729	2.822	3.462-3.482	7.01
AS3159-07	.355	.448	1.088-1.108	2.74	AS3159-46	2.792	2.885	3.525-3.545	7.12
AS3159-08	.417	.510	1.150-1.170	2.87	AS3159-47	2.855	2.948	3.588-3.608	7.24
AS3159-09	.479	.572	1.212-1.232	2.98	AS3159-48	2.917	3.010	3.650-3.670	7.35
AS3159-10	.542	.635	1.275-1.295	3.09	AS3159-49	2.979	3.072	3.712-3.732	7.46
AS3159-11	.605	.698	1.338-1.358	3.21	AS3159-50	3.042	3.135	3.775-3.795	7.57
AS3159-12	.667	.760	1.400-1.420	3.32	AS3159-51	3.105	3.198	3.838-3.858	7.68
AS3159-13	.729	.822	1.462-1.482	3.43	AS3159-52	3.167	3.260	3.900-3.920	7.79
AS3159-14	.792	.885	1.525-1.545	3.54	AS3159-53	3.229	3.322	3.962-3.982	7.90
AS3159-15	.855	.948	1.588-1.608	3.64	AS3159-54	3.292	3.385	4.025-4.045	8.02
AS3159-16	.917	1.010	1.650-1.670	3.75	AS3159-55	3.355	3.448	4.088-4.108	8.13
AS3159-17	.979	1.072	1.712-1.732	3.86	AS3159-56	3.417	3.510	4.150-4.170	8.24
AS3159-18	1.042	1.135	1.775-1.795	3.98	AS3159-57	3.479	3.572	4.212-4.232	8.36
AS3159-19	1.105	1.198	1.838-1.858	4.09	AS3159-58	3.542	3.635	4.275-4.295	8.47
AS3159-20	1.167	1.260	1.900-1.920	4.20	AS3159-59	3.605	3.698	4.338-4.358	8.58
AS3159-21	1.229	1.322	1.962-1.982	4.32	AS3159-60	3.667	3.760	4.400-4.420	8.69
AS3159-22	1.292	1.385	2.025-2.045	4.43	AS3159-61	3.729	3.822	4.462-4.482	8.80
AS3159-23	1.355	1.448	2.088-2.108	4.54	AS3159-62	3.792	3.885	4.525-4.545	8.92
AS3159-24	1.417	1.510	2.150-2.170	4.65	AS3159-63	3.855	3.948	4.588-4.608	9.03
AS3159-25	1.479	1.572	2.212-2.232	4.76	AS3159-64	3.917	4.010	4.650-4.670	9.14
AS3159-26	1.542	1.635	2.275-2.295	4.88	AS3159-65	3.979	4.072	4.712-4.732	9.24
AS3159-27	1.605	1.698	2.338-2.358	4.99	AS3159-66	4.042	4.135	4.775-4.795	9.37
AS3159-28	1.667	1.760	2.400-2.420	5.10	AS3159-67	4.105	4.198	4.838-4.858	9.48
AS3159-29	1.729	1.822	2.462-2.482	5.22	AS3159-68	4.167	4.260	4.900-4.920	9.58
AS3159-30	1.792	1.885	2.525-2.545	5.33	AS3159-69	4.229	4.322	4.962-4.982	9.69
AS3159-31	1.855	1.948	2.588-2.608	5.44	AS3159-70	4.292	4.385	5.025-5.045	9.80
AS3159-32	1.917	2.010	2.650-2.670	5.55	AS3159-71	4.355	4.448	5.088-5.108	9.92
AS3159-33	1.979	2.072	2.712-2.732	5.66	AS3159-72	4.417	4.510	5.150-5.170	10.03
AS3159-34	2.042	2.135	2.775-2.795	5.77	AS3159-73	4.479	4.572	5.212-5.232	10.14
AS3159-35	2.105	2.198	2.838-2.858	5.89	AS3159-74	4.542	4.635	5.275-5.295	10.25
AS3159-36	2.167	2.260	2.900-2.920	6.00	AS3159-75	4.605	4.698	5.338-5.358	10.37
AS3159-37	2.229	2.322	2.962-2.982	6.11	AS3159-76	4.667	4.760	5.400-5.420	10.48
AS3159-38	2.292	2.385	3.025-3.045	6.22	AS3159-77	4.729	4.822	5.462-5.482	10.59
AS3159-39	2.355	2.448	3.088-3.108	6.34	AS3159-78	4.792	4.885	5.525-5.545	10.70
AS3159-40	2.417	2.510	3.150-3.170	6.45	AS3159-79	4.855	4.948	5.588-5.608	10.81
AS3159-41	2.479	2.572	3.212-3.232	6.56	AS3159-80	4.917	5.010	5.650-5.670	10.92



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