

RATIONALE

RELOCATE DATUM D, ADD TERTIARY DATUM CONTROL FOR DRILLED HOLES, REFORMAT DRILLED HOLE
 CALLOUT, REVISE LEAD THREAD CHAMFER, NOTE 7 REFERENCE UPDATED, ADD DATUM C TO POSITION
 FEATURE CONTROL FRAME FOR MAJOR DIAMETER, ADD NEW NOTE FOR DISPOSITION OF EXISTING
 INVENTORY, GENERAL EDITORIAL REVISIONS.

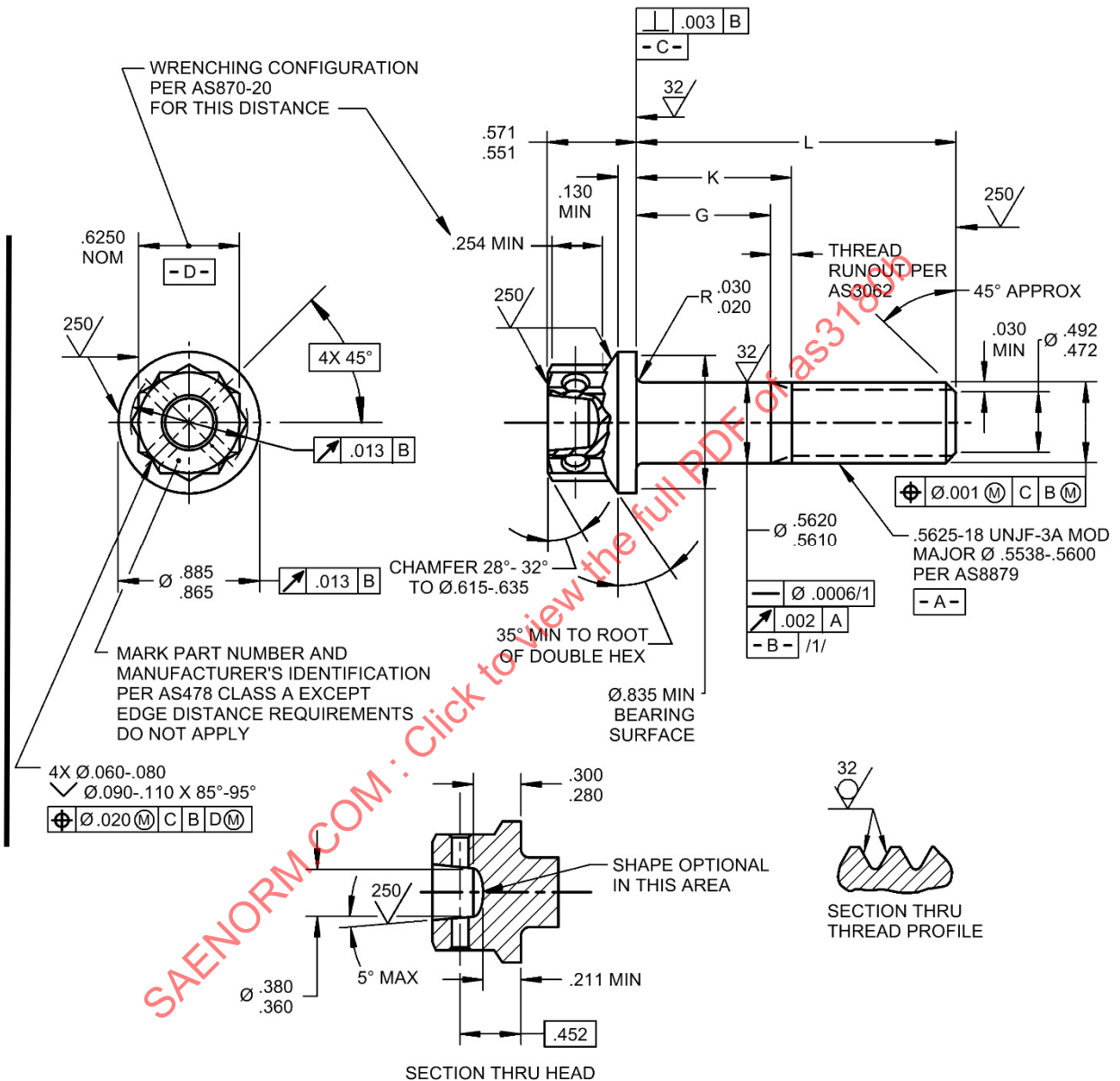
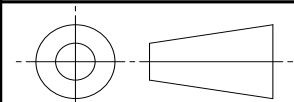


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS3180B>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7474 /7/



AEROSPACE STANDARD

BOLT, MACHINE - DOUBLE HEX EXTENDED
WASHER HEAD, DRILLED, CLOSE TOL SHANK,
AMS5643 (UNS S17400), 140 KSI, .5625-18 UNJF-3A

AS3180™
SHEET 1 OF 3

REV.
B

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	G MIN	K MAX	APPROX MASS LB/100	PART NO.	L	G MIN	K MAX	APPROX MASS LB/100
AS3180-03	1.056-1.076	.077	.198	12.04	AS3180-45	3.680-3.700	2.701	2.822	30.21
AS3180-04	1.118-1.138	.139	.260	12.47	AS3180-46	3.743-3.763	2.764	2.885	30.64
AS3180-05	1.180-1.200	.201	.322	12.90	AS3180-47	3.806-3.826	2.827	2.948	31.07
AS3180-06	1.243-1.263	.264	.385	13.33	AS3180-48	3.868-3.888	2.889	3.010	31.61
AS3180-07	1.306-1.326	.327	.448	13.77	AS3180-49	3.930-3.950	2.951	3.072	31.94
AS3180-08	1.368-1.388	.389	.510	14.20	AS3180-50	3.993-4.013	3.014	3.135	32.38
AS3180-09	1.430-1.450	.451	.572	14.63	AS3180-51	4.056-4.076	3.077	3.198	32.82
AS3180-10	1.493-1.513	.514	.635	15.06	AS3180-52	4.118-4.138	3.139	3.260	33.24
AS3180-11	1.556-1.576	.577	.698	15.50	AS3180-53	4.180-4.200	3.201	3.322	33.67
AS3180-12	1.618-1.638	.639	.760	15.93	AS3180-54	4.243-4.263	3.264	3.385	34.11
AS3180-13	1.680-1.700	.701	.822	16.36	AS3180-55	4.306-4.326	3.327	3.448	34.55
AS3180-14	1.743-1.763	.764	.885	16.79	AS3180-56	4.368-4.388	3.389	3.510	34.97
AS3180-15	1.806-1.826	.827	.948	17.23	AS3180-57	4.430-4.450	3.451	3.572	35.41
AS3180-16	1.868-1.888	.889	1.010	17.66	AS3180-58	4.493-4.513	3.514	3.635	35.84
AS3180-17	1.930-1.950	.951	1.072	18.06	AS3180-59	4.556-4.576	3.577	3.698	36.28
AS3180-18	1.993-2.013	1.014	1.135	18.53	AS3180-60	4.618-4.638	3.639	3.760	36.71
AS3180-19	2.056-2.076	1.077	1.198	18.96	AS3180-61	4.680-4.700	3.701	3.822	37.14
AS3180-20	2.118-2.138	1.139	1.260	19.39	AS3180-62	4.743-4.763	3.764	3.885	37.57
AS3180-21	2.180-2.200	1.201	1.322	19.82	AS3180-63	4.806-4.826	3.827	3.948	38.01
AS3180-22	2.243-2.263	1.264	1.385	20.26	AS3180-64	4.868-4.888	3.889	4.010	38.44
AS3180-23	2.306-2.326	1.327	1.448	20.69	AS3180-65	4.930-4.950	3.951	4.072	38.87
AS3180-24	2.368-2.388	1.389	1.510	21.13	AS3180-66	4.993-5.013	4.014	4.135	39.30
AS3180-25	2.430-2.450	1.451	1.572	21.55	AS3180-67	5.056-5.076	4.077	4.198	39.74
AS3180-26	2.493-2.513	1.514	1.635	21.99	AS3180-68	5.118-5.138	4.139	4.260	40.17
AS3180-27	2.556-2.576	1.577	1.698	22.42	AS3180-69	5.180-5.200	4.201	4.322	40.59
AS3180-28	2.618-2.638	1.639	1.760	22.86	AS3180-70	5.243-5.263	4.264	4.385	41.04
AS3180-29	2.680-2.700	1.701	1.822	23.28	AS3180-71	5.306-5.326	4.327	4.448	41.47
AS3180-30	2.743-2.763	1.764	1.885	23.72	AS3180-72	5.368-5.388	4.389	4.510	41.90
AS3180-31	2.806-2.826	1.827	1.948	24.16	AS3180-73	5.430-5.450	4.451	4.572	42.33
AS3180-32	2.868-2.888	1.889	2.010	24.59	AS3180-74	5.493-5.513	4.514	4.635	42.77
AS3180-33	2.930-2.950	1.951	2.072	25.01					
AS3180-34	2.993-3.013	2.014	2.135	25.46					
AS3180-35	3.056-3.076	2.077	2.198	25.89					
AS3180-36	3.118-3.138	2.139	2.260	26.32					
AS3180-37	3.180-3.200	2.201	2.322	26.75					
AS3180-38	3.243-3.263	2.264	2.385	27.18					
AS3180-39	3.306-3.326	2.327	2.448	27.62					
AS3180-40	3.368-3.388	2.389	2.510	28.05					
AS3180-41	3.430-3.450	2.451	2.572	28.48					
AS3180-42	3.493-3.513	2.514	2.635	28.91					
AS3180-43	3.556-3.576	2.577	2.698	29.35					
AS3180-44	3.618-3.638	2.639	2.760	29.78					



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