

REV.
A

SAE AS3229

FEDERAL SUPPLY CLASS
5320

RATIONALE

AS3229A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

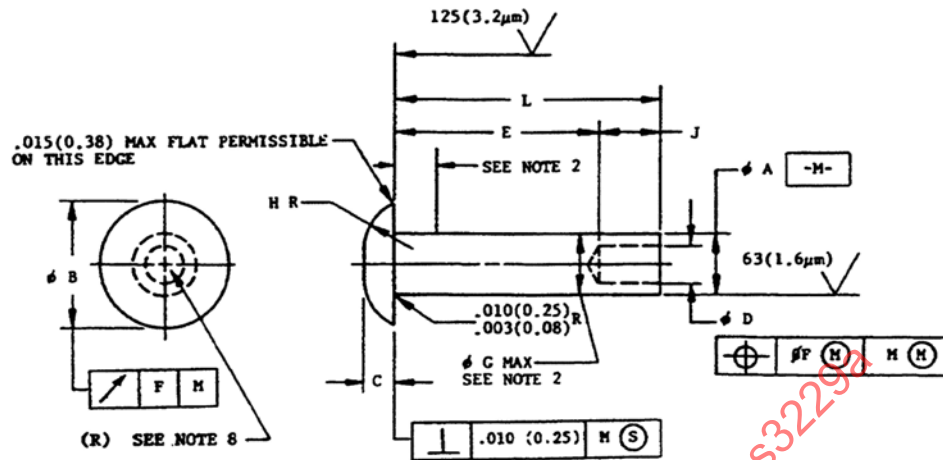
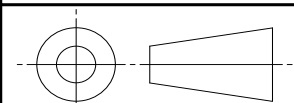


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS3229A>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
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AEROSPACE STANDARD

RIVET - TUBULAR, UNIVERSAL,
AS7228

SAE AS3229
SHEET 1 OF 6

REV.
A

TABLE 1

NOMINAL DIAMETER Inch	NOMINAL DIAMETER (mm)	A Inch	A (mm)	B Inch	B (mm)	C Inch	C (mm)	D Inch	D (mm)	F Inch	F (mm)	G MAX Inch	G MAX (mm)	H Inch	H (mm)	J (REF) Inch	J (REF) (mm)
.062	1.57	.061-.063	1.55-1.60	.119-.131	3.03- 3.32	.027-.037	0.69-0.93	.021-.026	0.54-0.66	.010	0.25	.064	1.62	.044-.064	1.12-1.62	.080	2.03
.094	2.39	.093-.095	2.37-2.41	.179-.197	4.55- 5.00	.040-.050	1.02-1.27	.045-.050	1.15-1.27	.010	0.25	.098	2.43	.072-.092	1.83-2.34	.105	2.67
.125	3.18	.123-.128	3.13-3.20	.238-.262	6.05- 6.65	.054-.064	1.38-1.62	.060-.065	1.53-1.65	.010	0.25	.128	3.25	.095-.118	2.49-2.99	.130	3.30
.156	3.96	.154-.157	3.92-3.98	.296-.328	7.52- 8.33	.067-.077	1.71-1.95	.092-.097	2.34-2.46	.015	0.38	.158	4.01	.125-.145	3.18-3.68	.155	3.94
.188	4.78	.186-.189	4.73-4.80	.356-.394	9.05-10.00	.080-.090	2.04-2.28	.107-.112	2.72-2.84	.015	0.38	.191	4.85	.154-.174	3.92-4.41	.180	4.57
.250	6.35	.248-.252	6.30-6.40	.475-.525	12.07-13.33	.107-.117	2.72-2.97	.154-.159	3.92-4.03	.020	0.50	.254	6.45	.207-.227	5.26-5.76	.230	5.84

AEROSPACE STANDARD

RIVET - TUBULAR, UNIVERSAL,
AS7228

L		A-.062 (1.37)				A-.094 (2.39)			
		PART NO.	E		APPROX MASS LB/100 kg/100	PART NO.	E		APPROX MASS LB/100 kg/100
Inch	(mm)		Inch	(mm)			Inch	(mm)	
.148-.166	3.71-4.21	AS3229-001	.061-.091	1.59-2.31	.016	AS3229-031	.036-.066	0.92-1.67	.040
.178-.198	4.53-5.02	AS3229-002	.093-.123	2.37-3.12	.019	AS3229-032	.068-.098	1.73-2.48	.046
.209-.229	5.31-5.81	AS3229-003	.109-.169	2.77-4.29	.022	AS3229-033	.099-.129	2.52-3.27	.052
.240-.260	6.10-6.60	AS3229-004	.155-.185	3.94-4.69	.024	AS3229-034	.130-.160	3.31-4.06	.059
.271-.291	6.89-7.39	AS3229-005	.186-.216	4.73-5.48	.027	AS3229-035	.161-.191	4.09-4.83	.064
.302-.322	7.68-8.17	AS3229-006	.217-.247	5.52-6.27	.030	AS3229-036	.192-.222	4.88-5.63	.070
.334-.354	8.49-8.99	AS3229-007	.249-.279	6.33-7.08	.033	AS3229-037	.224-.254	5.69-6.45	.077
.365-.385	9.28-9.77	AS3229-008	.280-.310	7.12-7.87	.035	AS3229-038	.255-.285	6.48-7.23	.083
.396-.416	10.06-10.56	AS3229-009	.311-.341	7.90-8.66	.038	AS3229-039	.286-.316	7.27-8.02	.089
.428-.448	10.86-11.37	AS3229-010	.343-.373	8.72-9.47	.040	AS3229-040	.318-.348	8.08-8.84	.095
.459-.479	11.66-12.16	AS3229-011	.374-.404	9.50-10.26	.043	AS3229-041	.349-.379	8.87-9.62	.101
.490-.510	12.45-12.95	AS3229-012	.405-.435	10.29-11.04	.046	AS3229-042	.380-.410	9.66-10.41	.107
.521-.541	13.24-13.74	AS3229-013	.436-.466	11.08-11.83	.048	AS3229-043	.411-.441	10.44-11.20	.113
.552-.572	14.03-14.52	AS3229-014	.467-.497	11.87-12.62	.051	AS3229-044	.442-.472	11.23-11.98	.120
.584-.604	14.84-15.34	AS3229-015	.499-.529	12.68-13.43	.054	AS3229-045	.474-.504	12.04-12.80	.126
.615-.635	15.63-16.12					AS3229-046	.505-.535	12.83-13.58	.132
.645-.665	16.39-16.89					AS3229-047	.536-.566	13.62-14.37	.138
.678-.698	17.23-17.72					AS3229-048	.568-.598	14.43-15.18	.144
.709-.729	18.01-18.51					AS3229-049	.599-.629	15.22-15.97	.151
.740-.760	18.80-19.30					AS3229-050	.630-.660	16.01-16.76	.157
.771-.791	19.59-20.09					AS3229-051	.661-.691	16.79-17.55	.163
.802-.822	20.38-20.87					AS3229-052	.692-.722	17.58-18.33	.169
.834-.854	21.19-21.69					AS3229-053	.724-.754	18.39-19.15	.175
.865-.885	21.98-22.47					AS3229-054	.755-.785	19.18-19.93	.181
.896-.916	22.76-23.26					AS3229-055	.786-.816	19.97-20.72	.187
.928-.948	23.58-24.07					AS3229-056	.818-.848	20.78-21.53	.194
.959-.979	24.36-24.86					AS3229-057	.849-.879	21.57-22.32	.200
.990-1.010	25.15-25.65					AS3229-058	.880-.910	22.36-23.11	.206
1.052-1.072	26.73-27.22					AS3229-059	.912-.942	23.13-23.88	.218
1.115-1.135	28.33-28.82					AS3229-060	1.003-1.033	25.53-26.28	.230
1.178-1.198	29.93-30.42					AS3229-061	1.068-1.098	27.13-27.88	.243
1.240-1.260	31.50-32.00					AS3229-062	1.130-1.160	28.71-29.46	.255
1.302-1.322	33.08-33.57					AS3229-063	1.192-1.222	30.28-31.03	.267
1.365-1.385	34.68-35.17					AS3229-064	1.255-1.285	31.88-32.63	.280
1.428-1.448	36.28-36.77					AS3229-065	1.318-1.348	33.48-34.23	.292
1.490-1.510	37.85-38.35					AS3229-066	1.380-1.410	35.08-35.81	.304

TABLE 2

Click to view the full PDF of AS3229a

AEROSPACE STANDARD

RIVET - TUBULAR, UNIVERSAL,
AS7228

L				A-125 (3.18)				A-156 (3.96)			
Inch	(mm)	PART NO.	E	Inch	(mm)	LB/100	kg/100	Inch	(mm)	LB/100	kg/100
.178-.198	4.53-5.02	AS3229-102	.043-.073	1.10-1.85	.086	.039	.044	.080-.110	2.04-2.79	.170	.077
.209-.229	5.31-5.81	AS3229-103	.103-.135	2.67-3.42	.108	.049	.054	.111-.141	2.82-3.58	.187	.085
.240-.260	6.10-6.60	AS3229-104	.136-.166	3.46-4.21	.119	.054	.059	.142-.172	3.61-4.36	.204	.093
.271-.291	6.89-7.39	AS3229-105	.167-.197	4.25-5.00	.129	.059	.064	.174-.204	4.42-5.18	.221	.100
.302-.322	7.68-8.17	AS3229-106	.199-.229	5.06-5.81	.140	.064	.069	.205-.235	5.21-5.96	.239	.108
.334-.354	8.49-8.99	AS3229-107	.230-.260	5.85-6.60	.151	.069	.073	.236-.266	6.00-6.75	.256	.116
.365-.385	9.28-9.77	AS3229-108	.261-.291	6.63-7.39	.161	.073	.079	.268-.298	6.81-7.56	.273	.124
.396-.416	10.06-10.56	AS3229-109	.293-.323	7.45-8.20	.173	.079	.083	.299-.329	7.60-8.35	.290	.132
.428-.448	10.88-11.37	AS3229-110	.324-.354	8.23-8.99	.184	.083	.088	.330-.360	8.39-9.14	.307	.139
.459-.479	11.66-12.16	AS3229-111	.355-.385	9.02-9.77	.195	.088	.093	.361-.391	9.17-9.93	.324	.147
.490-.510	12.45-12.95	AS3229-112	.386-.416	9.81-10.56	.206	.093	.098	.392-.422	9.96-10.71	.341	.155
.521-.541	13.24-13.74	AS3229-113	.412-.442	10.47-11.22	.217	.098	.103	.424-.454	10.77-11.53	.358	.162
.552-.572	14.03-14.52	AS3229-114	.449-.479	11.41-12.16	.228	.103	.108	.455-.485	11.56-12.31	.375	.170
.584-.604	14.84-15.34	AS3229-115	.480-.510	12.20-12.95	.239	.108	.113	.486-.516	12.35-13.10	.391	.178
.615-.635	15.63-16.12	AS3229-116	.511-.541	12.98-13.74	.249	.113	.118	.518-.548	13.16-13.91	.410	.186
.646-.666	16.42-16.92	AS3229-117	.542-.572	13.75-14.50	.261	.118	.123	.549-.579	13.95-14.70	.426	.193
.678-.698	17.23-17.72	AS3229-118	.573-.603	14.58-15.34	.272	.123	.128	.580-.610	14.74-15.49	.443	.201
.709-.729	18.01-18.51	AS3229-119	.604-.634	15.37-16.12	.282	.128	.133	.611-.641	15.52-16.28	.460	.209
.740-.760	18.80-19.30	AS3229-120	.635-.665	16.16-16.91	.293	.133	.138	.642-.672	16.31-17.06	.477	.216
.771-.791	19.59-20.09	AS3229-121	.666-.696	16.95-17.70	.304	.138	.143	.673-.703	17.11-17.88	.495	.224
.802-.822	20.38-20.87	AS3229-122	.697-.727	17.74-18.49	.315	.143	.148	.704-.734	17.91-18.68	.512	.232
.834-.854	21.19-21.69	AS3229-123	.728-.758	18.53-19.28	.326	.148	.153	.735-.765	18.70-19.45	.529	.240
.865-.885	22.00-22.49	AS3229-124	.759-.789	19.32-20.07	.337	.153	.158	.766-.796	19.51-20.26	.546	.248
.896-.916	22.78-23.26	AS3229-125	.790-.820	20.13-20.88	.348	.158	.163	.797-.827	20.30-21.05	.563	.255
.928-.948	23.58-24.07	AS3229-126	.821-.851	20.93-21.68	.359	.163	.168	.828-.858	21.09-21.84	.580	.263
.959-.979	24.38-24.86	AS3229-127	.852-.882	21.72-22.47	.370	.168	.173	.859-.889	21.84-22.59	.613	.278
.990-1.010	25.15-25.63	AS3229-128	.883-.913	22.52-23.27	.381	.173	.178	.890-.920	22.66-23.41	.648	.294
1.052-1.072	26.73-27.22	AS3229-129	.914-.944	23.32-24.07	.392	.178	.183	.921-.951	23.46-24.21	.683	.309
1.115-1.135	28.33-28.82	AS3229-130	.945-.975	24.12-24.87	.403	.183	.188	.952-.982	24.26-25.01	.716	.325
1.178-1.198	29.93-30.42	AS3229-131	1.043-1.073	26.50-27.25	.435	.197	.202	1.018-1.048	25.86-26.61	.750	.340
1.240-1.260	31.50-32.00	AS3229-132	1.105-1.135	28.07-28.82	.478	.211	.216	1.080-1.110	27.44-28.19	.819	.371
1.302-1.322	33.08-33.57	AS3229-133	1.167-1.197	29.63-30.38	.500	.227	.232	1.142-1.172	29.01-29.76	.887	.402
1.365-1.385	34.68-35.17	AS3229-134	1.230-1.260	31.25-32.00	.522	.237	.242	1.205-1.235	30.61-31.36	.921	.418
1.428-1.448	36.28-36.77	AS3229-135	1.293-1.323	32.93-33.68	.544	.247	.252	1.268-1.298	32.21-32.96	.956	.434
1.490-1.510	37.83-38.33	AS3229-136	1.355-1.385	34.42-35.17	.566	.257	.262	1.330-1.360	33.79-34.54	.989	.449
1.552-1.572	39.43-39.92	AS3229-137	1.417-1.447	36.00-36.75	.588	.267	.272	1.392-1.422	35.36-36.11	1.024	.464
1.615-1.635	41.03-41.52	AS3229-138	1.480-1.510	37.60-38.35	.610	.277	.282	1.455-1.485	36.96-37.71	1.058	.480
1.678-1.698	42.63-43.12	AS3229-139	1.543-1.573	39.20-39.95	.631	.286	.291	1.518-1.548	38.56-39.31	1.092	.495
1.740-1.760	44.20-44.70	AS3229-140	1.605-1.635	40.77-41.52	.651	.296	.301	1.580-1.610	40.14-40.89	1.126	.511
1.802-1.822	45.78-46.27	AS3229-141	1.667-1.697	42.37-43.12	.671	.306	.311	1.642-1.672	41.71-42.46	1.160	.526
1.865-1.885	47.38-47.87	AS3229-142	1.729-1.759	43.97-44.72	.691	.316	.321	1.705-1.735	43.31-44.06	1.194	.541
1.928-1.948	48.98-49.47	AS3229-143	1.791-1.821	45.57-46.32	.711	.326	.331	1.768-1.798	44.91-45.66	1.228	.556
1.990-2.010	50.55-51.05	AS3229-144	1.853-1.883	47.17-47.92	.731	.336	.341	1.830-1.860	46.49-47.24	1.262	.571

TABLE 2 (CONTINUED)