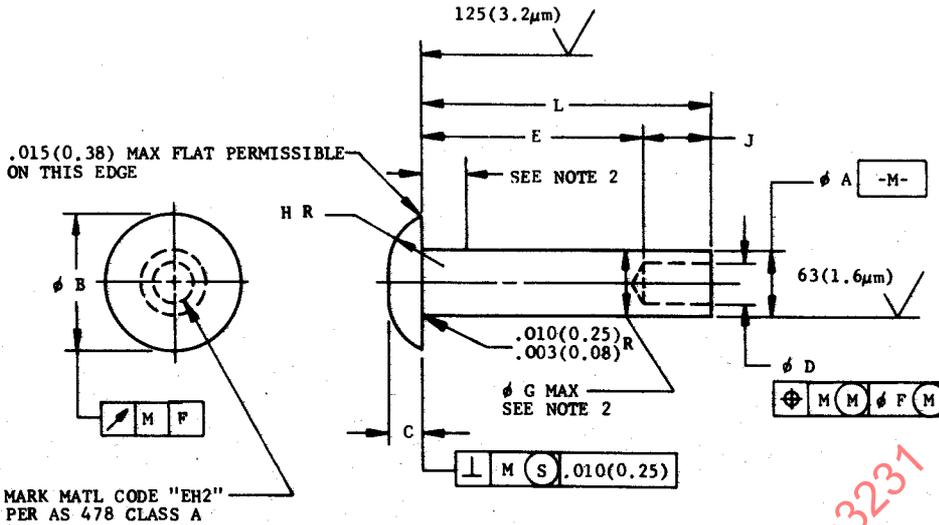
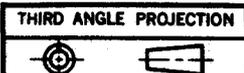


AS3231
SHEET 1 OF 4



NOMINAL DIAMETER		A		B		C		D	
IN.	(mm)	IN.	(mm)	IN.	(mm)	IN.	(mm)	IN.	(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
.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
.125	3.18	.123-.126	3.13-3.20	.238-.262	6.05- 6.65	.054-.064	1.38-1.62	.060-.065	1.53-1.65
.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
.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
.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
NOMINAL DIAMETER		F		G MAX		H		J (REF)	
IN.	(mm)	IN.	(mm)	IN.	(mm)	IN.	(mm)	IN.	(mm)
.062	1.57	.010	0.25	.064	1.62	.044-.064	1.12-1.62	.080	2.03
.094	2.39	.010	0.25	.096	2.43	.072-.092	1.83-2.34	.105	2.67
.125	3.18	.010	0.25	.128	3.25	.098-.118	2.49-2.99	.130	3.30
.156	3.96	.015	0.38	.158	4.01	.125-.145	3.18-3.68	.155	3.94
.188	4.78	.015	0.38	.191	4.85	.154-.174	3.92-4.41	.180	4.57
.250	6.35	.020	0.50	.254	6.45	.207-.227	5.26-5.76	.230	5.84

1. MATERIAL: CRES AMS 7232
2. ϕ G MAX DISTANCE OF .060(1.52) FOR LENGTHS .188(4.78) AND SHORTER AND 100(2.54) FOR LENGTHS LONGER THAN .188(4.78)
3. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36-1978; REQUIREMENTS PER ANSI B46.1-1978. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 250 MICRONS (6.3 MICROMETRES).
4. DIMENSIONS AND TOLERANCES: ANSI Y14.5-1973.
5. DIMENSIONS IN INCHES (MILLIMETRES), METRIC CONVERSIONS IN PARENTHESES ARE IN INTERNATIONAL SYSTEMS UNITS (SI).
6. BREAK SHARP EDGES .003-.015(0.08-0.38) UNLESS OTHERWISE SPECIFIED.
7. DO NOT USE UNASSIGNED PART NUMBERS.



PREPARED BY SAE COMMITTEE E-25, ENGINE AND PROPELLER STANDARDS UTILITY PARTS

Society of Automotive Engineers, Inc. 400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15090	AEROSPACE STANDARD	AS3231
	RIVET - TUBULAR, UNIVERSAL - AMS 7232	SHEET 1 OF 4

REAFFIRMED

5/95

Issue June 1979 Revised

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L		A= .062 (1.57)			A= .094 (2.39)			APPROX MASS	
		IN.	(mm)	PART NO.	IN.	(mm)	PART NO.	LB/100	kg/100
.146-.166	3.71- 4.21	AS3231-001	.061-.091	1.59- 2.31	AS3231-051	.036-.066	0.92- 1.67	.043	.019
.178-.198	4.53- 5.02	AS3231-002	.093-.123	2.37- 3.12	AS3231-052	.068-.098	1.73- 2.48	.049	.022
.209-.229	5.31- 5.81	AS3231-003	.109-.169	2.77- 4.29	AS3231-053	.099-.129	2.52- 3.27	.055	.025
.240-.260	6.10- 6.60	AS3231-004	.155-.185	3.94- 4.69	AS3231-054	.130-.160	3.31- 4.06	.063	.029
.271-.291	6.89- 7.39	AS3231-005	.186-.216	4.73- 5.48	AS3231-055	.161-.191	4.09- 4.85	.068	.031
.302-.322	7.68- 8.17	AS3231-006	.217-.247	5.52- 6.27	AS3231-056	.192-.222	4.88- 5.63	.075	.034
.334-.354	8.49- 8.99	AS3231-007	.249-.279	6.33- 7.08	AS3231-057	.224-.254	5.69- 6.45	.082	.037
.365-.385	9.28- 9.77	AS3231-008	.280-.310	7.12- 7.87	AS3231-058	.255-.285	6.48- 7.23	.089	.040
.396-.416	10.06-10.56	AS3231-009	.311-.341	7.90- 8.66	AS3231-059	.286-.316	7.27- 8.02	.095	.043
.428-.448	10.86-11.37	AS3231-010	.343-.373	8.72- 9.47	AS3231-060	.318-.348	8.08- 8.84	.101	.046
.459-.479	11.66-12.16	AS3231-011	.374-.404	9.50-10.26	AS3231-061	.349-.379	8.87- 9.62	.108	.049
.490-.510	12.45-12.95	AS3231-012	.405-.435	10.29-11.04	AS3231-062	.380-.410	9.66-10.41	.114	.052
.521-.541	13.24-13.74	AS3231-013	.436-.466	11.08-11.83	AS3231-063	.411-.441	10.44-11.20	.121	.055
.552-.572	14.03-14.52	AS3231-014	.467-.497	11.87-12.62	AS3231-064	.442-.472	11.23-11.98	.128	.058
.584-.604	14.84-15.34	AS3231-015	.499-.529	12.68-13.43	AS3231-065	.474-.504	12.04-12.80	.134	.061
.615-.635	15.63-16.12				AS3231-066	.505-.535	12.83-13.58	.141	.064
.645-.665	16.39-16.89				AS3231-067	.536-.566	13.62-14.37	.147	.067
.678-.698	17.23-17.72				AS3231-068	.568-.598	14.43-15.18	.154	.070
.709-.729	18.01-18.51				AS3231-069	.599-.629	15.22-15.97	.161	.073
.740-.760	18.80-19.30				AS3231-070	.630-.660	16.01-16.76	.167	.076
.771-.791	19.59-20.09				AS3231-071	.661-.691	16.79-17.55	.174	.079
.802-.822	20.38-20.87				AS3231-072	.692-.722	17.58-18.33	.180	.082
.834-.854	21.19-21.69				AS3231-073	.724-.754	18.39-19.15	.187	.085
.865-.885	21.98-22.47				AS3231-074	.755-.785	19.18-19.93	.193	.088
.896-.916	22.76-23.26				AS3231-075	.786-.816	19.97-20.72	.199	.090
.928-.948	23.58-24.07				AS3231-076	.818-.848	20.78-21.53	.207	.094
.959-.979	24.36-24.86				AS3231-077	.849-.879	21.57-22.32	.213	.047
.990-1.010	25.15-25.65				AS3231-078	.880-.910	22.36-23.11	.220	.100
1.052-1.072	26.73-27.22				AS3231-079	.942-.972	23.93-24.68	.232	.105
1.115-1.135	28.33-28.82				AS3231-080	1.005-1.035	25.53-26.28	.245	.111
1.178-1.198	29.93-30.42				AS3231-081	1.068-1.098	27.13-27.88	.259	.118
1.240-1.260	31.50-32.00				AS3231-082	1.130-1.160	28.71-29.46	.272	.123
1.302-1.322	33.08-33.57				AS3231-083	1.192-1.222	30.28-31.03	.285	.129
1.365-1.385	34.68-35.17				AS3231-084	1.255-1.285	31.88-32.63	.299	.135
1.428-1.448	36.28-36.77				AS3231-085	1.381-1.348	33.48-34.23	.311	.141
1.490-1.510	37.85-38.35				AS3231-086	1.380-1.410	35.06-35.81	.324	.147

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L		A=125 (3.18)			A=156 (3.96)		
IN.	(mm)	PART NO.	E		PART NO.	E	
			IN.	(mm)		IN.	(mm)
		APPROX MASS		APPROX MASS		APPROX MASS	
		LB/100	kg/100	LB/100	kg/100	LB/100	kg/100
.178-.198	4.53-5.02	AS3231-102	.043-.073	1.10-1.85	AS3231-154	.080-.110	2.04-2.79
.209-.229	5.31-5.81	AS3231-103	.074-.104	1.88-2.64	AS3231-155	.111-.141	2.82-3.58
.240-.260	6.10-6.60	AS3231-104	.105-.135	2.67-3.42	AS3231-156	.142-.172	3.81-4.36
.271-.291	6.89-7.39	AS3231-105	.136-.166	3.46-4.21	AS3231-157	.174-.204	4.42-5.18
.302-.322	7.68-8.17	AS3231-106	.167-.197	4.25-5.00	AS3231-158	.205-.235	5.21-5.96
.334-.352	8.49-8.99	AS3231-107	.199-.229	5.06-5.81	AS3231-159	.236-.266	6.00-6.75
.363-.385	9.28-9.77	AS3231-108	.230-.260	5.85-6.60	AS3231-160	.268-.298	6.81-7.56
.396-.416	10.06-10.56	AS3231-109	.261-.291	6.63-7.39	AS3231-161	.299-.329	7.60-8.35
.428-.448	10.88-11.37	AS3231-110	.293-.323	7.45-8.20	AS3231-162	.330-.360	8.39-9.14
.459-.479	11.66-12.16	AS3231-111	.324-.354	8.23-8.99	AS3231-163	.361-.391	9.17-9.93
.490-.510	12.45-12.95	AS3231-112	.355-.385	9.02-9.77	AS3231-164	.392-.422	9.96-10.71
.521-.541	13.24-13.74	AS3231-113	.386-.416	9.81-10.56	AS3231-165	.424-.454	10.77-11.53
.552-.572	14.03-14.52	AS3231-114	.417-.447	10.47-11.22	AS3231-166	.455-.485	11.56-12.31
.584-.604	14.84-15.34	AS3231-115	.449-.479	11.41-12.16	AS3231-167	.486-.516	12.35-13.10
.615-.635	15.63-16.12	AS3231-116	.480-.510	12.20-12.95	AS3231-168	.518-.548	13.16-13.91
.645-.665	16.39-16.89	AS3231-117	.511-.541	12.98-13.74	AS3231-169	.549-.579	13.95-14.70
.678-.698	17.23-17.72	AS3231-118	.543-.573	13.29-14.04	AS3231-170	.580-.610	14.74-15.49
.709-.729	18.01-18.51	AS3231-119	.574-.604	14.58-15.34	AS3231-171	.611-.641	15.52-16.28
.740-.760	18.80-19.30	AS3231-120	.605-.635	15.37-16.12	AS3231-172	.642-.672	16.31-17.06
.771-.791	19.59-20.09	AS3231-121	.636-.666	16.16-16.91	AS3231-173	.674-.704	17.12-17.88
.802-.822	20.38-20.87	AS3231-122	.667-.697	16.95-17.70	AS3231-174	.705-.735	17.91-18.66
.834-.854	21.19-21.69	AS3231-123	.699-.729	17.76-18.51	AS3231-175	.736-.766	18.70-19.45
.865-.885	21.98-22.47	AS3231-124	.730-.760	18.55-19.30	AS3231-176	.768-.798	19.51-20.26
.896-.916	22.76-23.26	AS3231-125	.761-.791	19.33-20.09	AS3231-177	.799-.829	20.30-21.05
.928-.948	23.58-24.07	AS3231-126	.793-.823	20.15-20.90	AS3231-178	.830-.860	21.09-21.84
.959-.979	24.36-24.86	AS3231-127	.824-.854	20.93-21.69	AS3231-179	.861-.891	22.66-23.41
.990-1.010	25.15-25.65	AS3231-128	.855-.885	21.72-22.47	AS3231-180	.892-.922	24.26-25.01
1.052-1.072	26.73-27.22	AS3231-129	.917-.947	23.30-24.05	AS3231-181	.923-.953	25.86-26.61
1.115-1.135	28.33-28.82	AS3231-130	.980-1.010	24.90-25.65	AS3231-182	.954-.984	27.46-28.21
1.178-1.198	29.93-30.42	AS3231-131	1.043-1.073	26.50-27.25	AS3231-183	1.018-1.048	29.06-29.81
1.240-1.260	31.50-32.00	AS3231-132	1.103-1.133	28.07-28.82	AS3231-184	1.080-1.110	30.66-31.41
1.302-1.322	33.08-33.57	AS3231-133	1.167-1.197	29.65-30.40	AS3231-185	1.142-1.172	32.26-33.01
1.365-1.385	34.68-35.17	AS3231-134	1.230-1.260	31.25-32.00	AS3231-186	1.205-1.235	33.86-34.61
1.428-1.448	36.28-36.77	AS3231-135	1.293-1.323	32.85-33.60	AS3231-187	1.268-1.298	35.46-36.21
1.490-1.510	37.85-38.35	AS3231-136	1.355-1.385	34.42-35.17	AS3231-188	1.330-1.360	37.06-37.81
1.552-1.572	39.43-39.92	AS3231-137	1.417-1.447	36.00-36.75	AS3231-189	1.392-1.422	38.66-39.41
1.615-1.635	41.03-41.52	AS3231-138	1.480-1.510	37.60-38.35	AS3231-190	1.455-1.485	40.26-41.01
1.678-1.698	42.63-43.12	AS3231-139	1.543-1.573	39.20-39.95	AS3231-191	1.518-1.548	41.86-42.61
1.740-1.760	44.2-44.70	AS3231-140	1.605-1.635	40.77-41.52	AS3231-192	1.580-1.610	43.46-44.21
1.802-1.822	45.78-46.27				AS3231-193	1.642-1.672	45.06-45.81
1.865-1.885	47.38-47.87				AS3231-194	1.705-1.735	46.66-47.41
1.928-1.948	48.98-49.47					1.768-1.798	48.26-49.01
1.990-2.010	50.53-51.05					1.830-1.860	49.86-50.61

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