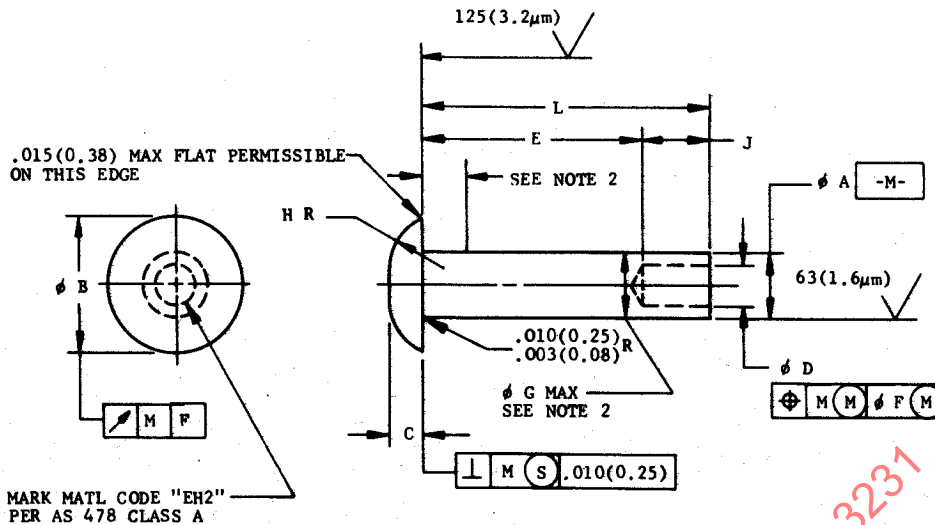


AS3231

SHEET 1 OF 4

FED SUP CLASS
5320

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 FOR 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 MICROINCHES (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.

THIRD ANGLE PROJECTION



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

RIVET - TUBULAR, UNIVERSAL - AMS 7232

AS3231

SHEET 1 OF 4

REAFFIRMED

5/95

L			A=.062 (1.57)			A=.094 (2.39)			
IN.	(mm)	PART NO.	E		APPROX MASS LB/100 kg/100	PART NO.	E		APPROX MASS LB/100 kg/100
			IN.	(mm)			IN.	(mm)	
.146-.166	3.71- 4.21	AS3231-001	.061-.091	1.59- 2.31	.017	AS3231-051	.036-.066	0.92- 1.67	.043
.178-.198	4.53- 5.02	AS3231-002	.093-.123	2.37- 3.12	.020	AS3231-052	.068-.098	1.73- 2.48	.049
.209-.229	5.31- 5.81	AS3231-003	.109-.169	2.77- 4.29	.023	AS3231-053	.099-.129	2.52- 3.27	.055
.240-.260	6.10- 6.60	AS3231-004	.155-.185	3.94- 4.69	.026	AS3231-054	.130-.160	3.31- 4.06	.063
.271-.291	6.89- 7.39	AS3231-005	.186-.216	4.73- 5.48	.029	AS3231-055	.161-.191	4.09- 4.85	.068
.302-.322	7.68- 8.17	AS3231-006	.217-.247	5.52- 6.27	.032	AS3231-056	.192-.222	4.88- 5.63	.075
.334-.354	8.49- 8.99	AS3231-007	.249-.279	6.33- 7.08	.034	AS3231-057	.224-.254	5.69- 6.45	.082
.365-.385	9.28- 9.77	AS3231-008	.280-.310	7.12- 7.87	.037	AS3231-058	.255-.285	6.48- 7.23	.089
.396-.416	10.06-10.56	AS3231-009	.311-.341	7.90- 8.66	.041	AS3231-059	.286-.316	7.27- 8.02	.095
.428-.448	10.86-11.37	AS3231-010	.343-.373	8.72- 9.47	.043	AS3231-060	.318-.348	8.08- 8.84	.101
.459-.479	11.66-12.16	AS3231-011	.374-.404	9.50-10.26	.046	AS3231-061	.349-.379	8.87- 9.62	.108
.490-.510	12.45-12.95	AS3231-012	.405-.435	10.29-11.04	.049	AS3231-062	.380-.410	9.66-10.41	.114
.521-.541	13.24-13.74	AS3231-013	.436-.466	11.08-11.83	.051	AS3231-063	.411-.441	10.44-11.20	.121
.552-.572	14.03-14.52	AS3231-014	.467-.497	11.87-12.62	.054	AS3231-064	.442-.472	11.23-11.98	.128
.584-.604	14.84-15.34	AS3231-015	.499-.529	12.68-13.43	.058	AS3231-065	.474-.504	12.04-12.80	.134
.615-.635	15.63-16.12					AS3231-066	.505-.535	12.83-13.58	.141
.645-.665	16.39-16.89					AS3231-067	.536-.566	13.62-14.37	.147
.678-.698	17.23-17.72					AS3231-068	.568-.598	14.43-15.18	.154
.709-.729	18.01-18.51					AS3231-069	.599-.629	15.22-15.97	.161
.740-.760	18.80-19.30					AS3231-070	.630-.660	16.01-16.76	.167
.771-.791	19.59-20.09					AS3231-071	.661-.691	16.79-17.55	.174
.802-.822	20.38-20.87					AS3231-072	.692-.722	17.58-18.33	.180
.834-.854	21.19-21.69					AS3231-073	.724-.754	18.39-19.15	.187
.865-.885	21.98-22.47					AS3231-074	.755-.785	19.18-19.93	.193
.896-.916	22.76-23.26					AS3231-075	.786-.816	19.97-20.72	.199
.928-.948	23.58-24.07					AS3231-076	.818-.848	20.78-21.53	.207
.959-.979	24.36-24.86					AS3231-077	.849-.879	21.57-22.32	.213
.990-1.010	25.15-25.65					AS3231-078	.880-.910	22.36-23.11	.220
1.052-1.072	26.73-27.22					AS3231-079	.942-.972	23.93-24.68	.232
1.115-1.135	28.33-28.82					AS3231-080	1.005-1.035	25.53-26.28	.245
1.178-1.198	29.93-30.42					AS3231-081	1.068-1.098	27.13-27.88	.259
1.240-1.260	31.50-32.00					AS3231-082	1.130-1.160	28.71-29.46	.272
1.302-1.322	33.08-33.57					AS3231-083	1.192-1.222	30.28-31.03	.285
1.365-1.385	34.68-35.17					AS3231-084	1.255-1.285	31.88-32.63	.299
1.428-1.448	36.28-36.77					AS3231-085	1.381-1.348	33.48-34.23	.311
1.490-1.510	37.85-38.35					AS3231-086	1.380-1.410	35.06-35.81	.324

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AS3231

SHEET 3 OF 4

A=156 (3.96)				A=125 (3.18)				A=100 (2.54)			
L		E		E		E		E		E	
IN.	(mm)	PART NO.	APPROX MASS LB/100 kg/100	IN.	(mm)	PART NO.	APPROX MASS LB/100 kg/100	IN.	(mm)	PART NO.	APPROX MASS LB/100 kg/100
.178-.198	4.53-5.02	AS3231-102	.092	.043-.073	1.10-1.85	AS3231-102	.042	.080-.110	2.04-2.79	AS3231-154	.181
.209-.229	5.31-5.81	AS3231-103	.103	.074-.104	1.88-2.64	AS3231-103	.046	.111-.141	2.82-3.58	AS3231-155	.199
.240-.260	6.10-6.60	AS3231-104	.115	.105-.135	2.67-3.42	AS3231-104	.052	.142-.172	3.61-4.36	AS3231-156	.218
.271-.291	6.89-7.39	AS3231-105	.127	.136-.166	3.46-4.21	AS3231-105	.058	.174-.204	4.42-5.18		.246
.302-.322	7.68-8.17	AS3231-106	.138	.167-.197	4.25-5.00	AS3231-106	.062	.205-.235	5.21-5.96		.253
.334-.354	8.49-8.99	AS3231-107	.149	.199-.229	5.06-5.81	AS3231-107	.068	.236-.266	6.00-6.75		.273
.365-.385	9.28-9.77	AS3231-108	.161	.230-.260	5.85-6.60	AS3231-108	.073				.291
.396-.416	10.06-10.56	AS3231-109	.172	.261-.291	6.63-7.39	AS3231-109	.078				.309
.428-.448	10.88-11.37	AS3231-110	.184	.293-.323	7.45-8.20	AS3231-110	.084				.327
.459-.479	11.66-12.16	AS3231-111	.196	.324-.354	8.23-8.99	AS3231-111	.089				.346
.490-.510	12.45-12.95	AS3231-112	.208	.355-.385	9.02-9.77	AS3231-112	.095				.364
.521-.541	13.24-13.74	AS3231-113	.220	.386-.416	9.81-10.56	AS3231-113	.100				.382
.552-.572	14.03-14.52	AS3231-114	.231	.417-.447	10.47-11.22	AS3231-114	.105				.400
.584-.604	14.84-15.34	AS3231-115	.243	.449-.479	11.41-12.16	AS3231-115	.110				.417
.615-.635	15.63-16.12	AS3231-116	.255	.480-.510	12.20-12.95	AS3231-116	.116				.437
.645-.665	16.39-16.89	AS3231-117	.266	.511-.541	12.98-13.74	AS3231-117	.120				.454
.678-.698	17.23-17.72	AS3231-118	.278	.543-.573	13.29-14.04	AS3231-118	.126				.472
.709-.729	18.01-18.51	AS3231-119	.290	.574-.604	14.58-15.34	AS3231-119	.132				.491
.740-.760	18.80-19.30	AS3231-120	.300	.605-.635	15.37-16.12	AS3231-120	.136				.509
.771-.791	19.59-20.09	AS3231-121	.312	.636-.666	16.16-16.91	AS3231-121	.141				.528
.802-.822	20.38-20.87	AS3231-122	.324	.667-.697	16.95-17.70	AS3231-122	.147				.546
.834-.854	21.19-21.69	AS3231-123	.336	.699-.729	17.76-18.51	AS3231-123	.152				.564
.865-.885	21.98-22.47	AS3231-124	.348	.730-.760	18.55-19.30	AS3231-124	.158				.582
.896-.916	22.76-23.26	AS3231-125	.359	.761-.791	19.33-20.09	AS3231-125	.163				.600
.928-.948	23.58-24.07	AS3231-126	.371	.793-.823	20.15-20.90	AS3231-126	.168				.615
.959-.979	24.36-24.86	AS3231-127	.383	.824-.854	20.93-21.69	AS3231-127	.174				.633
.990-1.010	25.15-25.65	AS3231-128	.395	.855-.885	21.72-22.47	AS3231-128	.179				.654
1.052-1.072	26.73-27.22	AS3231-129	.417	.917-.947	23.30-24.05	AS3231-129	.189				.672
1.115-1.135	28.33-28.82	AS3231-130	.442	.980-1.010	24.90-25.65	AS3231-130	.200				.691
1.178-1.198	29.93-30.42	AS3231-131	.464	1.043-1.073	26.50-27.25	AS3231-131	.210				.727
1.240-1.260	31.50-32.00	AS3231-132	.487	1.105-1.135	28.07-28.82	AS3231-132	.221				.764
1.302-1.322	33.08-33.57	AS3231-133	.510	1.167-1.197	29.65-30.40	AS3231-133	.231				.800
1.365-1.385	34.68-35.17	AS3231-134	.533	1.230-1.260	31.25-32.00	AS3231-134	.242				.837
1.428-1.448	36.28-36.77	AS3231-135	.557	1.293-1.323	32.85-33.60	AS3231-135	.252				.873
1.490-1.510	37.85-38.35	AS3231-136	.580	1.355-1.385	34.42-35.17	AS3231-136	.263				.910
1.552-1.572	39.43-39.92	AS3231-137	.604	1.417-1.447	36.00-36.75	AS3231-137	.274				.946
1.615-1.635	41.03-41.52	AS3231-138	.627	1.480-1.510	37.60-38.35	AS3231-138	.284				.982
1.678-1.698	42.63-43.12	AS3231-139	.651	1.543-1.573	39.20-39.95	AS3231-139	.299				.1,020
1.740-1.760	44.2-44.70	AS3231-140	.673	1.605-1.635	40.77-41.52	AS3231-140	.305				.1,055
1.802-1.822	45.78-46.27										.1,093
1.865-1.885	47.38-47.87										.1,128
1.928-1.948	48.98-49.47										.1,165
1.990-2.010	50.53-51.05										.1,201

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