

SAE-AS14227

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PREPARED BY AIRFRAME CONTROL BEARINGS GROUP

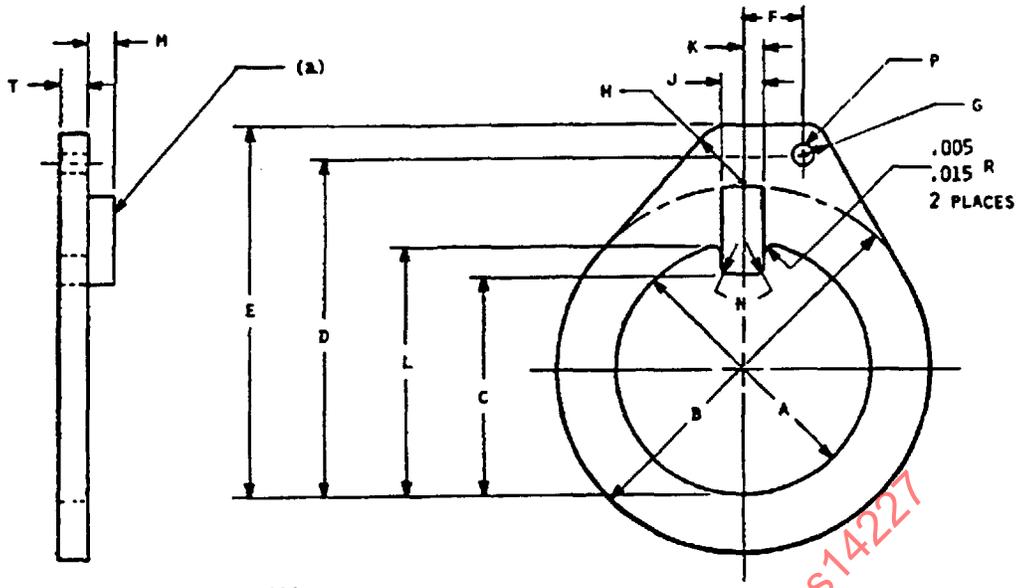


AEROSPACE STANDARD

LOCK, ROD END, IMPROVED STRENGTH, NAS LUG

AS14227
SHEET 1 OF 5

AS14227



ALL UNSPECIFIED CORNER .005 R.
.015 R.

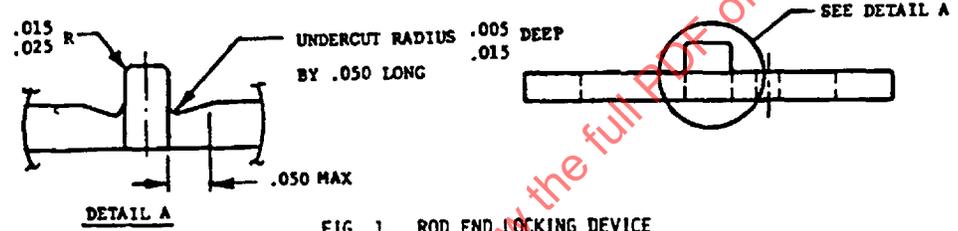


FIG. 1. ROD END LOCKING DEVICE

(a) THE FLAT SURFACE OF THE LOCKING ELEMENT SHALL EXTEND TO DIAMETER B.

REQUIREMENTS:

1. MATERIAL: STEEL CASTING - 17-4PH IN ACCORDANCE WITH AMS-5343.
2. HEAT TREATMENT: CASTING - IN ACCORDANCE WITH AMS 5343, ROCKWELL C38-45.
3. FINISH: CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 2.
4. SURFACE TEXTURE: ALL SURFACES SHALL BE 125 MICROINCHES, UNLESS OTHERWISE SPECIFIED, IN ACCORDANCE WITH ANSI B46.1.
5. FLATNESS: WASHER FACES SHALL BE FLAT TO WITHIN 0.005 INCHES.
6. INSPECTION: 17-4PH (CASTING) PENETRANT INSPECT IN ACCORDANCE WITH MIL-I-6866, AQL SHALL BE 0.65 IN ACCORDANCE WITH MIL-STD-105, INSPECTION LEVEL II.

AS14227

TABLE 1. LOCK DIMENSIONS

DASH NO.	TERMINAL THREAD SIZE (REF) (b)	A DIA	B DIA + .02 - .00	C	D ± .016	E ± .016	F ± .031	G RAD	H RAD	J ± .005	K	L + .000 - .015	M ± .005	N + .010 - .000	P DIA ± .005	T ± .005
4	1/4 -20UNF-3A	.272 ± .005	.44	.214 ± .005	.406	.500	.125	.094	.094	.052	.028 ± .005	.280	.046	.005	.062	.090
5	5/16 -24UNF-3A	.334 ± .005	.50	.273 ± .005	.484	.578	.125	.094	.094	.052	.028 ± .005	.342	.046	.005	.062	.090
6	3/8 -24UNF-3A	.396 ± .008	.56	.327 ± .008	.562	.656	.125	.094	.094	.062	.041 ± .005	.404	.046	.015	.062	.090
7	7/16 -20UNF-3A	.459 ± .008	.63	.386 ± .008	.629	.719	.125	.094	.094	.062	.041 ± .005	.467	.059	.015	.062	.063
8	1/2 -20UNF-3A	.520 ± .008	.75	.450 ± .008	.719	.813	.156	.094	.156	.062	.041 ± .005	.528	.059	.015	.062	.063
9	9/16 -18UNF-3A	.583 ± .008	.88	.496 ± .010	.812	.906	.188	.094	.156	.114	.057 ± .005	.591	.067	.015	.071	.071
10	5/8 -18UNF-3A	.647 ± .010	1.00	.559 ± .010	.937	1.031	.188	.094	.188	.114	.057 ± .005	.655	.067	.015	.071	.071
12	3/4 -18UNF-3A	.772 ± .010	1.12	.681 ± .010	1.062	1.156	.188	.094	.188	.114	.057 ± .005	.780	.067	.015	.071	.071
14	7/8 -18UNF-3A	.897 ± .010	1.31	.795 ± .010	1.250	1.344	.188	.094	2.50	.142	.071 ± .007	.905	.076	.015	.080	.080
16	1 -20UNF-3A	1.022 ± .010	1.50	.918 ± .010	1.422	1.516	.188	.094	2.50	.142	.071 ± .007	1.030	.084	.015	.090	.090
18	1 1/8 -12UNF-3A	1.147 ± .010	1.62	1.028 ± .010	1.547	1.656	.219	1.09	.313	.174	.087 ± .007	1.155	.084	.015	.090	.090

(b) FOR TERMINAL THREAD SIZES 1 1/4 INCH THROUGH 2 1/4 INCH USE MS14198 LOCKS.

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