

SAE-AS14227

ADOPTION NOTICE

SAE-AS14227, Lock, Rod End, Improved Strength, NAS Lug, issued August 1997, was adopted on 25 August 1997 for use by the Department of Defense (DoD). Proposed changes by DoD activities must be submitted to the DoD Adopting Activity: Naval Air Systems Command, Attn: Commander, Naval Air Warfare Center Aircraft Division, Code 414100B120-3, Highway 547, Lakehurst, NJ 08733-5100. DoD activities may obtain copies of this document from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094. The private sector and other Government agencies may purchase copies from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

Custodians:

Army - AV
Navy - AS
Air Force - 99

Adopting activity:

Navy - AS
(Project 5340-2445)

FSC 5340

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Submitted for recognition as an American National Standard

FEDERAL SUPPLY CLASS
5340**AS14227****NOTICE**

This document has been taken directly from U.S. Military Standard, MS14227, and contains only minor editorial and format changes required to bring it into conformance with the publishing requirements of SAE technical standards.

The original Military Standard was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, (b) the use of the existing government specification or standard format, and (c) the exclusion of any qualified product list (QPL) sections.

SAENORM.COM : Click to view the full PDF of as14227

ISSUED 1997-08

PREPARED BY AIRFRAME CONTROL BEARINGS GROUP

SAE The Engineering Society
For Advancing Mobility
Land Sea Air and Space
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

LOCK, ROD END, IMPROVED STRENGTH, NAS LUG

AS14227
SHEET 1 OF 5

Copyright 1997 Society of Automotive Engineers, Inc.
All rights reserved.

Printed in the U.S.A.

QUESTIONS REGARDING THIS DOCUMENT:
TO PLACE A DOCUMENT ORDER:

(412) 772-8510
(412) 776-4970

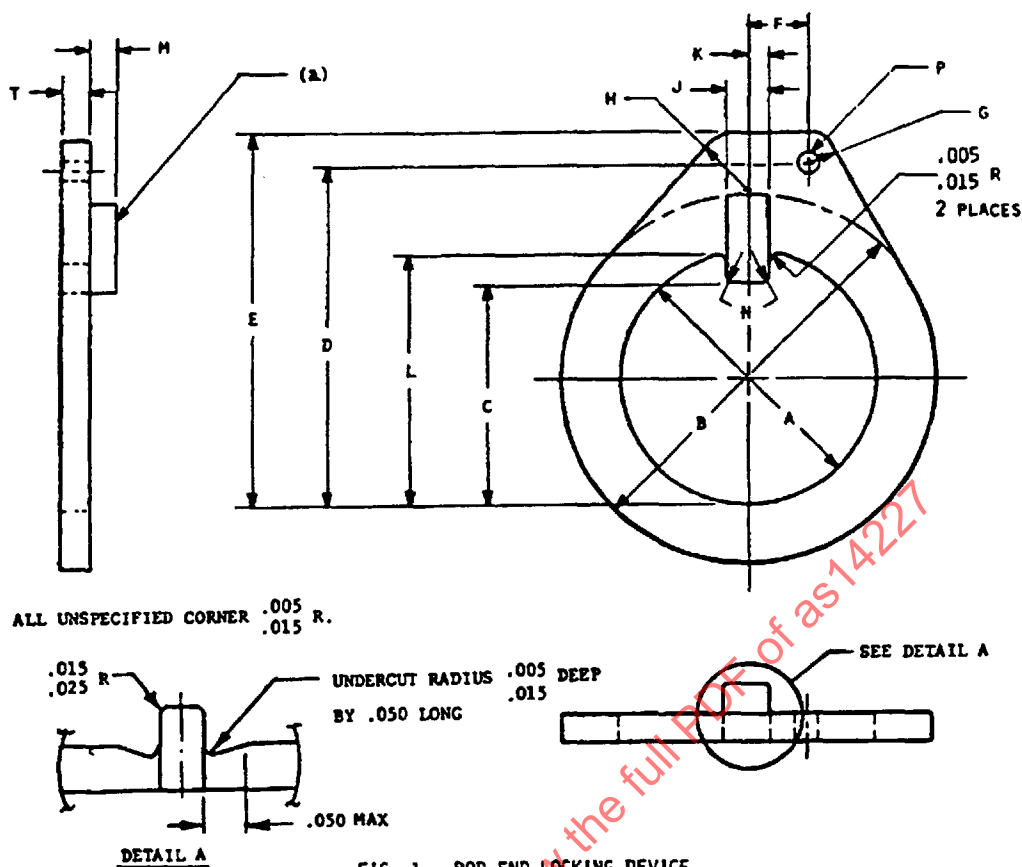
FAX: (412) 776-0243

F. Distributed under license from the IHS Archive

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

AS14227



(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 C	D ±.016	E ±.016	F ±.031	G RAD	H RAD	J ±.005	K	L ±.000 -.015	M ±.005	N RAD +.010 -.000	P DIA ±.005	T ±.005
4	1/4-28UNF-3A	.272 ± .005	.44	.214 ± .005	.406	.500	.125	.094	.094	.052	.026 ± .005	.280	.046	.005	.062	.090
5	5/16-24UNF-3A	.334 ± .005	.50	.273 ± .005	.484	.578	.125	.094	.094	.052	.026 ± .005	.342	.046	.005	.062	.090
6	3/8-24UNF-3A	.396 ± .008	.56	.327 ± .008	.562	.656	.125	.094	.094	.082	.041 ± .005	.404	.046	.015	.062	.090
7	7/16-20UNF-3A	.459 ± .008	.63	.386 ± .008	.625	.719	.125	.094	.094	.082	.041 ± .005	.467	.059	.015	.062	.063
8	1/2-20UNF-3A	.520 ± .008	.75	.450 ± .008	.719	.813	.156	.094	.156	.082	.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	3/4-16UNF-3A	.772 ± .010	1.12	.681 ± .010	1.062	1.156	.188	.094	.188	.114	.057 ± .005	.780	.067	.015	.071	.071
14	7/8-14UNF-3A	.897 ± .010	1.31	.795 ± .010	1.250	1.344	.188	.094	.250	.142	.071 ± .007	.905	.076	.015	.080	.080
16	1-12UNF-3A	1.022 ± .010	1.50	.918 ± .010	1.422	1.516	.188	.094	.250	.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	.109	.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.