

INCH-POUND

MS21429B

29 September 1997

SUPERSEDING

MS21429A

5 December 1994

MILITARY SPECIFICATION SHEET

BEARING, ROLLER, ANTIFRICTION, ROD END, EXTERNAL
THREAD, SELF-ALIGNING, AIR FRAME, -67°F, TO 350°F
TYPE I, HEAVY DUTY, SEALED

This Specification is approved for use by all Departments and
Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification
sheet and the issue of the following specification listed in that issue of the Department of Index of
Specifications and Standards (DODISS) specified in the solicitation: MIL-B-8952

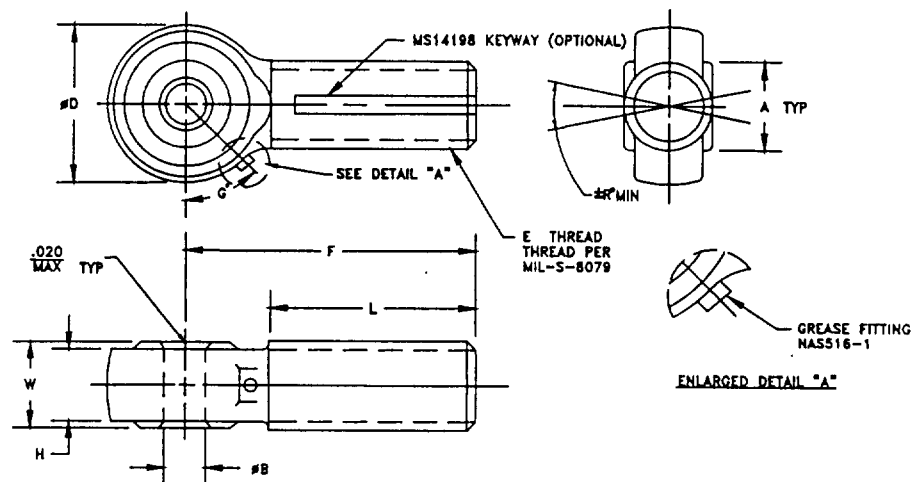


TABLE I.

Dash No.	Ref. Part No.	$\frac{-B}{+0.0000}$ $\frac{-0.0005}{-0.0005}$	$\frac{-D}{+0.000}$ $\frac{-0.050}{-0.050}$	$\frac{W}{+0.000}$ $\frac{-0.005}{-0.005}$	$\frac{H}{+0.000}$ $\frac{-0.015}{-0.015}$	$\frac{A}{\pm 0.005}$	R°	G°	$\frac{F}{\pm 0.015}$	$\frac{L}{-0.060}$ $\frac{-0.000}{-0.000}$	$\frac{E}{\text{Thread UNJF-3A}}$	$\frac{WT}{LB}$	Limit Load, LB		Radial Dynamic Load, LB
		Radial	Thrust												
-4	4-6A-44	.2500	1.073	.625	.479	.450	10	45	2.563	1.670	3/8 - 24	.18	3,080	1,690	2,560
-5	5-8A-44	.3125	1.440	.812	.665	.520	10	45	2.810	1.750	1/2 - 20	.37	8,010	4,550	6,650
-6	6-10A-44	.3750	1.760	.937	.760	.610	10	45	2.600	1.310	5/8 - 18	.59	10,600	6,100	8,610
-8	8-12A-44	.5000	2.186	1.125	.942	.940	10	45	3.400	2.000	3/4 - 16	1.15	18,900	9,450	15,700
-10	10-14A-44	.6250	2.630	1.812	1.130	.900	15	50	4.180	2.030	7/8 - 14	2.30	29,000	14,500	24,100
-12	12-18A-44	.7500	2.656	1.260	1.200	1.130	2	45	3.500	1.750	1 1/8 - 12	2.00	40,800	20,900	33,900
-14	14-16B-44	.8750	3.406	1.562	1.328	1.380	5	55	4.500	2.060	1 - 12	4.20	55,300	26,000	45,900

MS21429B

REQUIREMENTS:

1. MATERIAL: Inner race and rollers: 52100, FED-STD-66.
Outer ring rod end: AISI-SAE 8620H per AMS 6274, SAE 4620 per AMS 6294 or composition III (9310) per MIL-S-7393 or E52100 per FED-STD-66.
2. SEALS: Polytetrafluoroethylene per AMS 3652 or Polytetrafluoroethylene sheet, glass fabric reinforced per AMS 3666.
3. LUBRICANT IDENTIFICATION: MIL-G-81322.
4. INTERNAL CLEARANCE: Radial .0002 to .0010, axial .0005 to .030.
5. PLATING: Zinc nickel plate AMS 2417, Type 2, or cadmium plated in accordance with QQ-P-416, Type I, Class 2, thickness .0003 to .0006 inches.
6. SURFACE ROUGHNESS: Raceways: $\sqrt{.8}$, rollers $\sqrt{.6}$, in accordance with ANSI/ASME B46.61.
7. EXAMPLE OF PART NUMBER: MS21429-4GLK = bearing, roller, rod end, external thread, with MIL-G-81322 Lubricant, NAS559 keyway, left hand thread.

Add suffix letter K when NAS559 key slot is required.
Add suffix letter L when left hand thread is required.
Add suffix letter G when lubricator per detail "A" is required.
8. Bearings ratings are for operation up to 250°F max, for operation 350°F, the ratings shall be reduced by 20%.
9. Dimensions to be met after plating.

NOTES:

1. Dimensions in inches unless otherwise specified.
2. Referenced documents shall be of the issue in effect on date of invitations for bid.
3. For design feature purposes, this standard takes precedence over procurement documents referenced herein.

Custodians:
Air Force - 11
Navy - AS

Review activities:
Army - AT
Air Force - 84
DLA-IS

Preparing activity:
Navy - AS

(Project 5310-1054)