

REV.
A

AS21429

FEDERAL SUPPLY CLASS
3110

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 DODISS SPECIFIED IN THE SOLICITATION: AS8952.

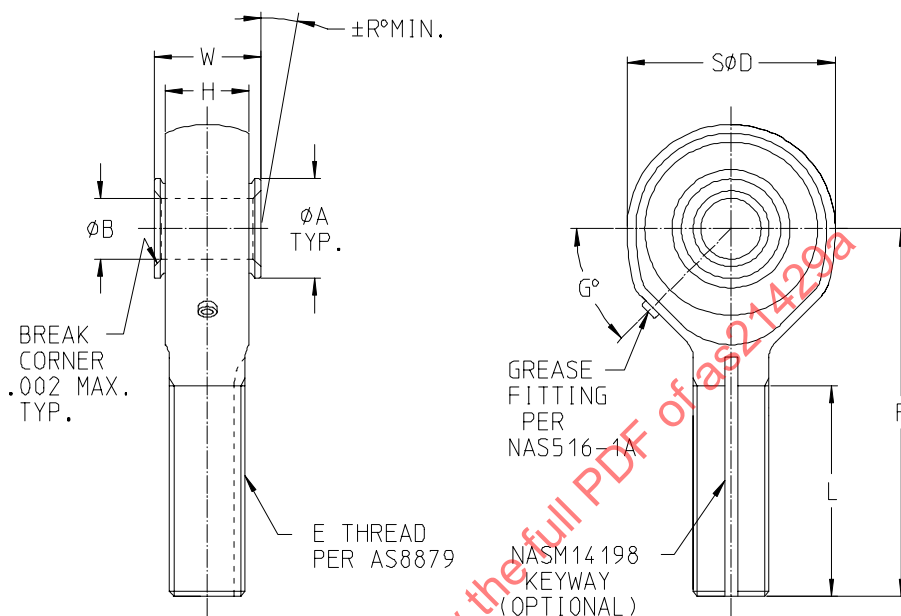
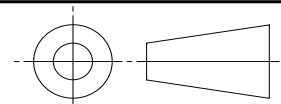


FIGURE 1

TABLE 1

DASH NO.	B +.0000 -.0005	D +.000 -.050	W +.000 -.005	H +.000 -.015	A ±.005	R°	G°	F ±.015	L +.060 -.000	E THREAD UNJF-3A	WT LB	LIMIT LOAD, LB		RADIAL DYNAMIC LOAD, LB
												RADIAL	THRUST	
-4	.2500	1.073	.625	.479	.450	10	45	2.563	1.670	3/8-24	.18	3,080	1,690	2,560
-5	.3125	1.440	.812	.665	.520	10	45	2.810	1.750	1/2-20	.37	8,010	4,550	6,650
-6	.3750	1.760	.937	.760	.610	10	45	2.600	1.310	5/8-18	.59	10,600	6,100	8,610
-8	.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	.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	.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	.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

THIRD ANGLE PROJECTION



CUSTODIAN: SAE ACBG

SAE Aerospace
 An SAE International Group
AEROSPACE STANDARD

(R) BEARING, ROLLER, ANTIFRICTION, ROD END,
EXTERNAL THREAD, SELF-ALIGNING, AIR FRAME,
-67 °F, TO 350 °F TYPE 1, HEAVY DUTY, SEALED

AS21429
 SHEET 1 OF 3

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A

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TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
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ISSUED 2002-03 REVISED 2004-11

REQUIREMENTS:

1. MATERIAL: INNER RACE AND ROLLERS: 52100 AMS 6440. OUTER RING ROD END: AISI-SAE 8620H PER AMS 6274, AISI-SAE 4620 PER AMS 6294 OR COMPOSITION III (9310) PER AMS 6260 OR E52100 PER AMS 6440.
2. SEALS: POLYTETRAFLUOROETHYLENE PER AMS 3652 OR POLYTETRAFLUOROETHYLENE SHEET, GLASS FABRIC REINFORCED PER AMS 3666 OR POLYETHER-ESTER PER ASTM D 4550, GROUP 4, CLASS 1, GRADE 1 OR AN APPROVED EQUIVALENT.
3. LUBRICANT: MIL-PRF-81322 OR MIL-PRF-23827. ALL BEARINGS SHALL BE PACKED WITH GREASE CONFORMING TO MIL-PRF-81322 UNLESS OTHERWISE SPECIFIED. ALL BEARINGS SHALL BE FILLED 80% MINIMUM WITH GREASE. IF MIL-PRF-23827 IS REQUIRED, ADD THE LETTER "H" AFTER THE MS21429 DASH NUMBER. IF A LUBRICATION FITTING IS NOT DESIRED, DELETE THE CODE "G" AFTER THE MS21429 DASH NUMBER. MIL-PRF-23827 SHALL NOT BE USED FOR OPERATION WHERE TEMPERATURES EXCEED 250 °F.
4. INTERNAL CLEARANCE: RADIAL .0002 TO .0010, AXIAL .0005 TO .030.
5. PLATING: ALL EXTERNAL SURFACES EXCEPT BORE, SEALS AND RETAINERS SHALL BE ZINC-NICKEL PLATED PER AMS 2417, TYPE 2 OR CADMIUM PLATED IN ACCORDANCE WITH AMS-QQ-P-416, TYPE I, CLASS 2, WITH THICKNESS OF .0003 TO .0006. EXTERNAL THREADED AREAS SHALL BE .0002 TO .0005 INCHES THICK.
6. SURFACE ROUGHNESS: RACE WAYS 8 MICROINCHES Ra MAXIMUM, ROLLERS 6 MICROINCHES Ra MAXIMUM, IN ACCORDANCE WITH ANSI/ASME B46.1.
7. EXAMPLE OF PART NUMBER:

MS21429 -4 G K L H = BEARING, ROLLER, ROD END, SELF-ALIGNING, .2500 BORE, WITH LUBRICATION FITTING MIL-PRF-23827 LUBRICANT, NAS559 KEYWAY, LEFT HAND EXTERNAL THREAD.

PREPACKED WITH MIL-PRF-23827 LUBRICANT (SEE REQUIREMENT 3)

LEFT HAND THREAD DESIGNATOR

NAS14198 KEYWAY DESIGNATOR

LUBRICATION FITTING DESIGNATOR

DASH NUMBER MILITARY SPECIFICATION SHEET NUMBER

MILITARY SPECIFICATION SHEET NUMBER

WHEN THE DESIGNATOR IS NOT APPLICABLE IT SHALL BE OMITTED FROM THE PART NUMBER.

8. BEARINGS RATINGS ARE FOR OPERATION UP TO 250 °F MAX. FOR OPERATION 350 °F, THE RATINGS SHALL BE REDUCED BY 20%.