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REV.
B

AS21221™

FEDERAL SUPPLY CLASS
3110

RATIONALE

AS21221 REV. B IS A FIVE-YEAR REVIEW. UPDATING SPECIFICATION TO CURRENT REQUIREMENTS, ADDED ZINC-NICKEL PLATING.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS8952.

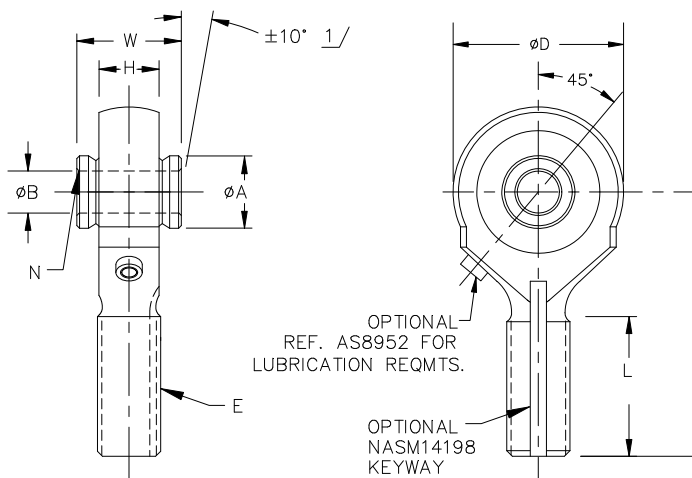


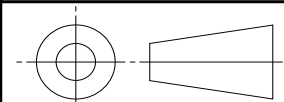
TABLE 1 - DIMENSIONS AND LOADS

MS DASH NO.	ØA ±.005	ØB +.0000 -.0005	ØD +.000 -.050	E UNJF-3A THREAD	F ±.015	H +.000 -.015	L +.060 -.000	N ±.005	W +.000 -.005	LIMIT LOAD RATING (LB)		RADIAL DYNAMIC LOAD RATING (LB)	APPROX NET WT (LB)
										RADIAL	AXIAL		
-4G	.420	.2500	1.080	.375-24	1.840	.360	1.000	.015	.500	2730	270	2270	.11
-5G	.560	.3125	1.410	.500-20	2.410	.460	1.310		.687	4970	490	4120	.27
-6G	.660	.3750	1.660	.625-18	3.030	.550	1.750		.812	7910	790	6570	.47
-8G	.860	.5000	2.270	.875-14	4.030	.720	2.310		1.062	14000	1400	11700	1.13
-10G	1.050	.6250	2.800	1.000-12	4.660	.850	2.560		1.250	22100	2210	18400	1.94

1/ THESE BEARINGS ARE SELF-ALIGNING FOR 10° IN ANY DIRECTION.

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://standards.sae.org/AS21221B>

THIRD ANGLE PROJECTION



CUSTODIAN: ACBG

PROCUREMENT SPECIFICATION: AS8952



AEROSPACE STANDARD

(R) BEARING, ROLLER, ROD END, EXTERNAL THREAD,
SELF-ALIGNING, ANTI-FRICTION, AIRFRAME,
HEAVY DUTY, TYPE I, -67 TO 350 °F, SEALED

AS21221™
SHEET 1 OF 3

REV.
B

Documents

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1. MATERIAL: INNER RING AND ROLLERS: STEEL, E52100 PER AMS6440.
ROD END: STEEL, AISI/SAE 4620 PER AMS6294 OR AISI-SAE 8620H PER AMS6274 OR COMPOSITION III (9310) PER AMS6265.
2. LUBRICANT: MIL-PRF-81322 OR MIL-PRF-23827 TYPE 1 OR TYPE 2. 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 TYPE 1 OR TYPE 2 IS REQUIRED, ADD THE LETTER "M" OR "N" AFTER THE MS21221 DASH NUMBER. IF A LUBRICATION FITTING IS REQUIRED, ADD THE CODE "G" AFTER THE MS21221 DASH NUMBER, AS SHOWN IN NOTE 7. MIL-PRF-23827 TYPE 1 OR TYPE 2 SHALL NOT BE USED FOR OPERATION WHERE TEMPERATURES EXCEED 250 °F.

IF NO TYPE IS SPECIFIED FOR MIL-PRF-23827, ADD THE LETTER "H" AFTER THE MS21221 DASH NUMBER.

IF MIL-PRF-23827 TYPE I IS REQUIRED, ADD THE LETTER "M" AFTER THE MS21221 DASH NUMBER.

IF MIL-PRF-23827 TYPE II IS REQUIRED, ADD THE LETTER "N" AFTER THE MS21221 DASH NUMBER.

IF A LUBRICATION FITTING IS DESIRED, ADD THE LETTER "G" AFTER THE MS21221 DASH NUMBER.
3. SEALS: POLYTETRAFLUOROETHYLENE PER AMS3652 OR POLYTETRAFLUOROETHYLENE SHEET, GLASS FABRIC REINFORCED PER AMS3666 TYPE 1 OR 2. TESTING FOR VOLUME RESISTIVITY AND ELECTRICAL FLAWS IS NOT REQUIRED OR POLYETHER-ESTER PER ASTM D4550, GROUP 4, CLASS 1, GRADE 1 OR AN APPROVED EQUIVALENT.
4. INTERNAL CLEARANCE: RADIAL .0001 TO .0015 INCHES; AXIAL .001 TO .030 INCHES.
5. SURFACE ROUGHNESS: RACEWAYS 8 MICROINCHES Ra MAXIMUM, ROLLERS 6 MICROINCHES Ra MAXIMUM, IN ACCORDANCE WITH ASME B46.1.
6. BEARING RATINGS ARE FOR OPERATION UP TO 250 °F MAX. FOR OPERATION UP TO 350 °F, THE RATINGS SHALL BE REDUCED BY 20%.
7. ADD SUFFIX LETTER "K" WHEN NASM 14198 KEYWAY IS REQUIRED.

ADD SUFFIX LETTER "L" WHEN LEFT HAND THREAD IS REQUIRED.

MS21221-4 G K L H E = BEARING, ROD END, ROLLER, SELF-ALIGNING, .2500 BORE, LUBRICATION FITTING WITH MIL-PRF-23827 TYPE 1 LUBRICANT, NASM 14198 KEYWAY, .375-24UNJF-3A LEFT HAND EXTERNAL THREAD, ZINC NICKEL PLATING

PLATING TYPE DESIGNATOR

PREPACKED WITH MIL-PRF-23827 LUBRICANT (SEE REQUIREMENT 2)

LEFT HAND THREAD DESIGNATOR

NASM14198 KEYWAY DESIGNATOR

LUBRICATION FITTING DESIGNATOR

DASH NUMBER

BASIC PART NUMBER

	AEROSPACE STANDARD	AS21221™ SHEET 2 OF 3	REV. B
	(R) BEARING, ROLLER, ROD END, EXTERNAL THREAD, SELF-ALIGNING, ANTI-FRICTION, AIRFRAME, HEAVY DUTY, TYPE I, -67 TO 350 °F, SEALED		