

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE I. THE SOLICITATION: MIL-B-8952

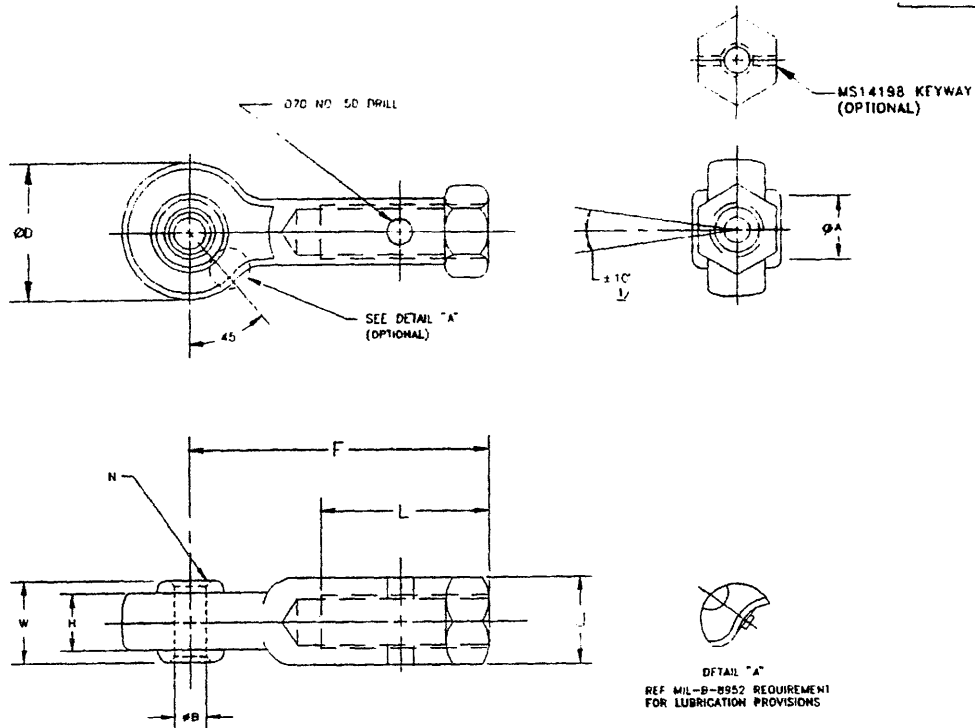


TABLE I. DIMENSIONS AND LOADS

MS DASH NO.	ØA ±.005	B +.0000 -.0005	ØD +.000 -.050	E UNJF-3B THREAD	F ±.015	H +.000 -.015	J HEX FLATS ±.015	L ±.020	M ±.030	N CORNER CHAMFER ±.005	LIMIT LOAD RATING, LBS		RADIAL DYNAMIC LOAD RATING, LBS	NET WT LBS	
											W +.000 -.005	AXIAL			
-4G	.420	.2500	1.080	.375-24	1.660	.360	.500	.810	.562	.015	.500	2730	270	2270	.11
-5G	.560	.3125	1.410	.500-20	2.340	.460	.690	1.310	.750		.687	4970	490	4120	.27
-6G	.660	.3750	1.660	.625-18	3.090	.550	.880	1.750	.938		.812	7910	790	6570	.53

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

REQUIREMENTS:

- ① 1. MATERIAL: INNER RING AND ROLLERS: STEEL, E52100 PER FED-STD-66. OUTER RING ROD END: STEEL, AISI/SAE 4620 PER AMS 6294 OR AISI-SAE 8620H PER AMS 6274 OR COMPOSITION III (9310) PER MIL-S-7393 OR E52100 PER FED-STD-66.
- ① 2. LUBRICANT: MIL-G-81322 OR MIL-G-23827. ALL BEARINGS SHALL BE PACKED WITH GREASE CONFORMING TO MIL-G-81322 UNLESS OTHERWISE SPECIFIED. ALL BEARINGS SHALL BE FILLED 80% MINIMUM WITH GREASE. IF MIL-G-23827 IS REQUIRED, ADD THE LETTER "H" AFTER THE MS21220 DASH NUMBER. IF A LUBRICATION FITTING IS NOT DESIRED, DELETE THE CODE "G" AFTER THE MS21220 DASH NUMBER. MIL-G-23827 SHALL NOT BE USED FOR OPERATION WHERE TEMPERATURES EXCEED 250°F
- 3. SEALS: POLYTETRAFLUOROETHYLENE PER AMS 3652 OR POLYTETRAFLUOROETHYLENE SHEET, GLASS FABRIC REINFORCED PER AMS 3666.
- ① 4. INTERNAL CLEARANCE: RADIAL .0001 TO .0015; AXIAL .001 TO .030.
- 5. SURFACE ROUGHNESS: RACEWAYS 8 MICROINCHES R_a MAXIMUM, ROLLERS 6 MICROINCHES R_a MAXIMUM, IN ACCORDANCE WITH ANSI/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%.

① DENOTES CHANGES

INCH-POUND

PREPARING ACTIVITY: NAVY-AS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER
CUSTODIANS: ARMY-AT NAVY-AS	TITLE	MS21220 05 DEC 94
AIR FORCE-99 DLA-	BEARING, ROLLER, ROD END, INTERNAL	REV D
REVIEW: ARMY-AV, AF-84, DLA-IS	THREAD, SELF-ALIGNING, ANTI-FRICTION,	SUPERSEDING
PROJECT NUMBER: 3110-0869	AIRFRAME, HEAVY DUTY, TYPE II,	MS21220 C 31 JAN 1990
DISTRIBUTION STATEMENT	-67° TO 350° F, SEALED	AMSC- N/A FSC 3110
A. Approved for public release; distribution is unlimited.		Page 1 of 2

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

- ①7. ADD SUFFIX LETTER "K" WHEN MS14198 KEYWAY IS REQUIRED.
ADD SUFFIX LETTER "L" WHEN LEFT HAND THREAD IS REQUIRED.

EXAMPLE OF PART NUMBER:

MS21220 - 4 G K L H = BEARING, ROD END, ROLLER, SELF-ALIGNING, .2500 BORE, LUBRICATION FITTING WITH MIL-G-23827 LUBRICANT,
MS14198 KEYWAY, .375-24UNJF-36 LEFT HAND INTERNAL THREAD

— PREPACKED WITH MIL-G-23827 GREASE LUBRICANT (SEE REQUIREMENT 2)

— LEFT HAND THREAD DESIGNATOR

— MS14198 KEYWAY DESIGNATOR

— LUBRICATOR FITTING DESIGNATOR

— DASH NUMBER

— MILITARY SPECIFICATION SHEET NUMBER

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

- ①8. PLATING: ALL EXTERNAL SURFACES EXCEPT BORE, SEALS AND RETAINERS SHALL BE ZINC-NICKEL PLATED IN ACCORDANCE WITH AMS 2417, TYPE 2, OR CADMIUM PLATED IN ACCORDANCE WITH QQ-P-416, TYPE I, CLASS 2, WITH A THICKNESS OF .0003 TO .0006.

NOTES:

1. DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS TO BE MET AFTER PLATING.
3. REMOVE BURRS AND SHARP EDGES.
4. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS SPECIFICATION AND REFERENCES CITED HEREIN, THE TEXT OF THIS SPECIFICATION SHALL TAKE PRECEDENCE.
5. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THIS ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoDISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS SPECIFICATION TO THE EXTENT SPECIFIED HEREIN.

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

PREPARING ACTIVITY: NAVY-AS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER
CUSTODIANS: ARMY-AT NAVY-AS AIR FORCE-99 DLA-	TITLE BEARING, ROLLER, ROD END, INTERNAL THREAD, SELF-ALIGNING, ANTI-FRICTION, AIRFRAME, HEAVY DUTY, TYPE II, -67° TO 350° F, SEALED	MS21220 05 DEC 94 REV D
REVIEW: ARMY-AV, AF-84, DLA-IS		SUPERSEDING MS21220 C 31 JAN 1990
PROJECT NUMBER 3110-0869		AMSC- N/A FSC 3110
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.		Page 2 of 2

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE