

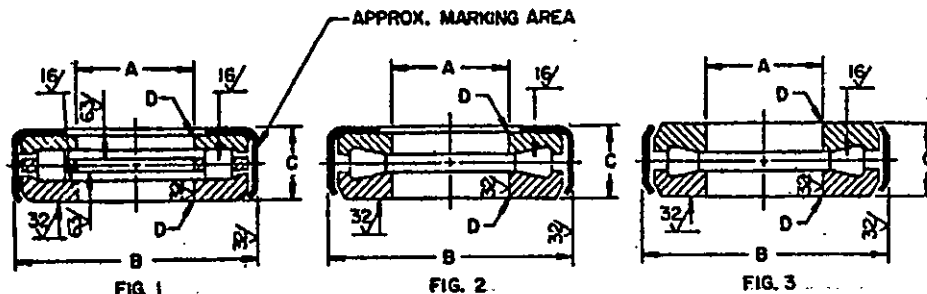
K-03-19
FED SUP CLASS
3110FIG. 1
RETAINER TYPE
STEERING GEAR SERVICEFIG. 2
RETAINERLESS TYPE
INTERMITTENT OPERATION
50 R.P.M. MAX.

FIG. 3

REVIEW ACTIVITIES: ARMY-WC
USER ACTIVITIES: ARMY-MI; NAVY-YD, MC

This military standard is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

BORE INCH	TOLERANCE		OUTSIDE DIA. INCH	TOL -000	HEIGHT ±.005 INCH	RADIUS OR CHAMFER	FIG NO.	BEARING NUMBER			
	+	-						WITHOUT OIL HOLES IN O.D. BAND		WITH OIL HOLES IN O.D. BAND	
								MIL-STD-102 CODE NUMBER	DASH NO.	MIL-STD-102 CODE NUMBER	DASH NO.
.6350	.004	.003	1.6250	+.010	.5000	.031 R	1	994 x 73038 x 0000	1		
.7600	.004	.002	1.6250	+.010	.5310	.031 R	1	994 x 73001 x 0000	2		
.8220	.006	.000	1.6250	+.010	.5310	.031 R	1	994 x 73005 x 0000	3		
.8220	.004	.000	1.6600	+.010	.5310	.031 x 45°	1	994 x 73023 x 0000	4		
.8850	.004	.002	1.8906	+.010	.5940	.031 R	1	994 x 73006 x 0000	5		
.9470	.004	.002	1.8906	+.010	.5940	.031 R	1	994 x 73034 x 0000	6		
1.0100	.004	.004	2.0000	+.010	.6250	.031 R	1	994 x 73002 x 0000	7		
1.0720	.004	.004	2.0000	+.010	.6250	.031 R	1	994 x 73021 x 0000	8		
1.1340	.004	.004	2.1875	+.010	.6250	.031 R	1	994 x 73003 x 0000	9		
1.1975	.004	.004	2.1875	+.010	.6250	.031 R	1	994 x 73020 x 0000	10		
1.2600	.004	.004	2.1875	+.010	.6250	.031 R	1	994 x 73004 x 0000	11	994 x 73029 x 0000	39
1.2600	.000	.005	2.6250	+.005	.7656	.031 x 45°	2	994 x 73007 x 0000	12		
1.3850	.000	.005	2.6250	+.005	.7656	.031 x 45°	2	994 x 73008 x 0000	13		
1.4470	.000	.005	2.6250	+.005	.7656	.031 x 45°	2	994 x 73025 x 0000	14	994 x 73009 x 0000	42
1.5100	.000	.005	2.8590	+.005	.8438	.031 x 45°	2	994 x 73022 x 0000	15	994 x 73042 x 0000	43
1.5730	.000	.005	2.8590	+.005	.8438	.031 x 45°	2	994 x 73036 x 0000	16		
1.6350	.000	.005	2.8590	+.005	.8438	.031 x 45°	2	994 x 73010 x 0000	17		
1.7600	.000	.005	3.2660	+.005	.9375	.031 x 45°	2	994 x 73011 x 0000	18	994 x 73012 x 0000	46
1.9470	.002	.002	3.6720	+.005	1.0313	.031 x 45°	3	994 x 73030 x 0000	19		
1.9470	.002	.002	3.6720	+.005	1.0620	.031 x 45°	2	994 x 73013 x 0000	20		
2.0100	.002	.002	3.6720	+.005	1.0313	.125 R	3	994 x 73014 x 0000	21	994 x 73043 x 0000	49
2.0100	.002	.002	3.6720	+.005	1.0625	.125 R	2	994 x 73015 x 0000	22	994 x 73016 x 0000	50
2.0720	.002	.002	3.6720	+.005	1.0620	.031 x 45°	2		23	994 x 73037 x 0000	51
2.0720	.002	.002	3.6720	+.005	1.0310	.031 x 45°	3	994 x 73031 x 0000	24		
2.5100	.002	.002	4.3750	+.005	1.0625	.031 x 45°	2	994 x 73028 x 0000	25	994 x 73026 x 0000	53
2.5100	.002	.002	4.3750	+.005	1.0156	.031 x 45°	3		26	994 x 73017 x 0000	54
3.0100	.002	.002	5.2500	+.008	1.3125	.093 R	3	994 x 73018 x 0000	27		
3.0100	.002	.002	5.2500	+.008	1.3750	.093 R	2	994 x 73027 x 0000	28		

* TOL. +.000, -.008

LOAD RATINGS SHOWN ON SHEET 2.

(A) ENTIRE STANDARD REVISED

P.A. ARMY-AT

Other Cus

AF-11

PROCUREMENT SPECIFICATION
NONE

1-T.E

BEARING, ROLLER, THRUST,
TWO CHANNLED RACE SURFACE, RIGID OR FLAT
SEAT TYPE

SUPERSEDES

MILITARY STANDARD

MS 17169

SHEET 1 OF 2

DD FORM 672-1 1-60 (Coordinated)

APPROVED 28 JUNE 1960 REVISED (A) 20 FEBRUARY 1968

FED SUP CLASS
3110

LOAD RATINGS

RETAINER TYPE			RETAINERLESS TYPE		
BEARING DASH NUMBER	FIGURE NUMBER	STEERING PIVOT RATING POUNDS	BEARING DASH NUMBER	FIGURE NUMBER	INTERMITTENT OPERATION RATING 50 RPM MAX. POUNDS
1	1	2450	12	2	7450
2	1	2450	13	2	7450
3	1	2450	14 AND 42	2	7450
4	1	2765	15 AND 43	2	8320
5	1	3640	16	2	8320
6	1	3640	17	2	8320
7	1	4125	18 AND 46	2	11345
8	1	4125	19	3	15485
9	1	4415	20	2	15485
10	1	4415	21 AND 49	3	15485
11 AND 39	1	4415	22 AND 50	2	15485
			23 AND 51	2	15485
			24	3	15485
			25 AND 53	2	21650
			26 AND 54	3	21650
			27	3	31455
			28	2	31455

FOR DIMENSIONAL AND OTHER PERTINENT DATA, SEE SHEET 1.

NOTES:

1. MATERIAL:
STEEL, ALLOY, HIGH CARBON CHROMIUM, TYPE AISI E51100 OR TYPE AISI E52100, FEDERAL STD. NO. 66
2. HEAT TREAT:
BEARING SHALL BE THROUGH HARDENED TO ROCKWELL C 58 TO C 66.
3. SURFACE FINISH:
SURFACES MARKED ✓ SHALL HAVE SURFACE FINISH IN ACCORDANCE WITH USA3 848.1
4. BEARING SHALL BE FREE OF ALL DEFECTS WHICH WOULD AFFECT ITS SERVICEABILITY.
5. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
6. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
7. THE MS PART NUMBER CONSISTS OF THE MS NUMBER, PLUS THE DASH NUMBER. EXAMPLE: MS 17169-1
8. MARKING SHALL CONSIST OF THE MS PART NUMBER AND THE MANUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH MIL-STD-130.

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P.A. ARMY-AT Other Cust	TITLE BEARING, ROLLER, THRUST, TWO CHanneled RACE SURFACE, RIGID OR FLAT SEAT TYPE	MILITARY STANDARD MS 17169
AF-11	PROCUREMENT SPECIFICATION NONE	SHEET 2

DD FORM 672-1 (Continued)

APPROVED 28 JUNE 1960 REVISED (A) ENTIRE STANDARD REVISED