

USER SYMBOLS:

REVIEWER SYMBOLS:

AF - 99
DLA - IS

"Review/Use information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current 000193."

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

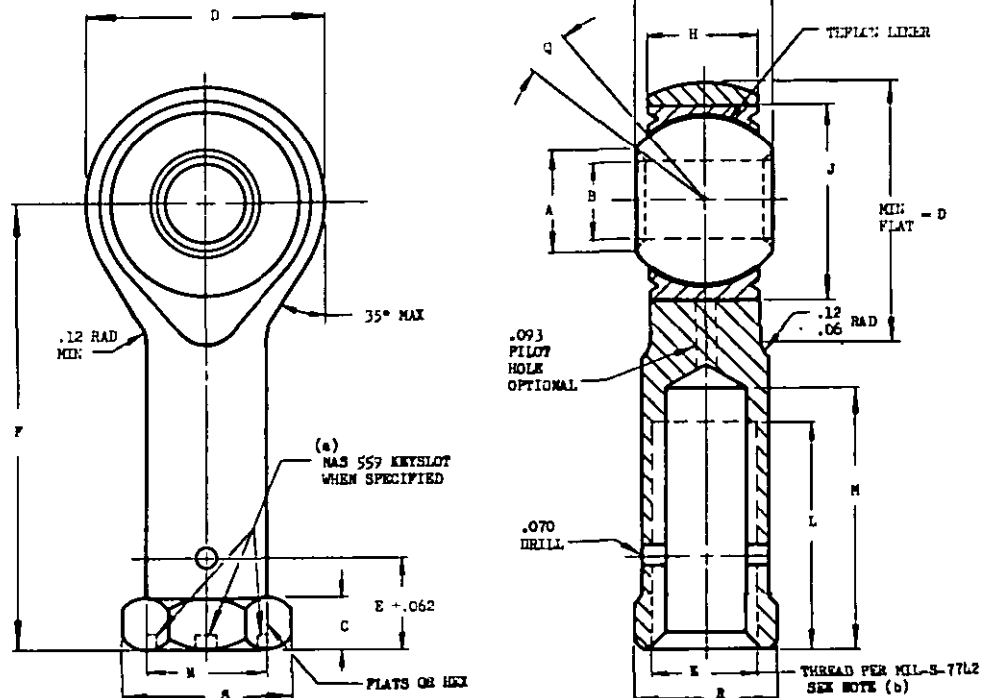


TABLE I															
DASH NO.	B +.0000 -.0005	D DIA. ±.010	L COMPLETE THREAD MIN.	E THREAD SIZE UNF-3B	F ±.010	H CHUNK DIA ±.010	M BALL WIDTH +.000 -.002	H BODY WIDTH ±.005	A MIN	J MAX	M MAX	C +.010 -.062	R +.002 -.010	Q* MIN	S REF ACROSS CORNERS OR DIA
-3	.1900	.806	.750	.5125-24	1.375	.422	.437	.337		.6450	.875	.188	.437	15	.500
-4	.2500				1.669										
-5	.3125	.900	.875	.3750-24	1.625	.485		.327	.36	.6875	1.000	.250	.562	8	.660
-6	.3750	1.025	1.000		1.812	.547	.500	.416	.47	.8125	1.125		.625	10	.720
-7	.4375	1.150	1.125	.4375-20	2.000	.610	.562	.452	.54	.9062	1.250		.750	9	.880
-8	.5000	1.337	1.250	.5000-20	2.250	.735	.625	.515	.61	1.0000	1.375	.375	.875	12	1.020
-10	.6250	1.525	1.375	.6250-18	2.500	.860	.750	.577	.75	1.1875	1.500		1.000	13	1.160
-12	.7500	1.775	1.625	.7500-16	2.875	.985	.875	.640	.85	1.3750	1.750		.500	1.125	6
-14	.8750	2.025	1.875	.8750-14	3.375	1.110	.875	.765	1.00	1.6250	2.062	.563	1.750	12	2.020
-16	1.0000	2.775	2.125	1.2500-12	4.125	1.688	1.375	1.115	1.27	2.1250	2.312				

(a) WHEN SPECIFIED KEYSLOT SHALL BE IN ACCORDANCE WITH NAS 359.

(b) THREAD FORM AS PER MIL-S-7742 WILL BECOME INACTIVE AFTER MARCH 1970. AFTER MARCH 1970, THREAD FORM SHALL CONFORM TO MIL-S-8879.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

Ⓒ INACTIVE FOR NEW DESIGN AFTER 31 JAN 1978 USE MIL-B-81935/2.
SEE TABLE IV.

Ⓒ DENOTES CHANGES

P.A. Navy - AS Other Com USAF - 11 ARMY - AV	TITLE BEARING, PLAIN, ROD END, SELF ALIGNING, TFE LINED, INTERNALLY THREADED	MILITARY STANDARD	
		MS21243	
PROCUREMENT SPECIFICATION MIL-B-8948	SUPERSEDES MS21243(ADG)	SHEET 1 OF 2	

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PROJECT NO. 3120-0524

APPROVED 25 JULY 67
REVISED 17 MAR 69
22 SEP 70
4 JUNE 82

USER SYMBOLS:

REVIEWER SYMBOLS:

AF - 99
DLA - IS

"Revision/Issue information is current as of the date of this document.
For future consideration of changes in this document, draft circulation
should be based on the information in the current BODISS."

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

FED. SUP CLASS
3120

TABLE II							
DASH NO.	OSCILLATING LOAD LB	ULTIMATE STATIC LOAD LB	FATIGUE LOAD LB	AXIAL PROOF LOAD LB	WEIGHT MAX LB	NO LOAD BREAKAWAY TORQUE IN/LBS	
						MIN	MAX
- 3	1470 (e)	2360	1470 (e)	1000	.080	.5	6
- 4	3420	4860	2380	1000	.084		
- 5	3590	7180	3020	1300	.102	1	10
- 6	5120	8550	3570	1660	.161		
- 7	6130	12000	4800	1850	.212		
- 8	8570	15500	6560	2040	.325		
-10	10700	21900	9180	2430	.481		
-12	13200	29500	11600	2810	.673		
-14	16500	34500	13100	3320	.959	2	16
-16	26600	40500	20400	4340	2.717		

(e) BASED ON BOLT BENDING FATIGUE STRENGTH 180,000 PSI

MATERIAL:

BODY CODE

"C" CORROSION RESISTING STEEL, AMS 5643 (17-4PH) (INACTIVE, SEE INTERCHANGEABILITY TABLE III)

"S" ALLOY STEEL, MIL-S-5000 (4340)

BALL: AMS 5630, AAC

CARTRIDGE OUTER RING: AMS5643 (17-4PH), AMS 5528 (17-7), AISI 410

LINER: SEE PROCUREMENT SPEC.

PLATING: ALLOY STEEL, CADMIUM PLATING QQ-P-416, TYPE I, CLASS 2

HARDNESS:

ROD END BODY: 17-4PH, Rc 39-44

4340, Rc 39-42

PASSIVATION: CORROSION RESISTING STEEL, ROD END BODY QQ-P-35, TYPE II OR III

SURFACE FINISH:

ALL MACHINED SURFACES, RMR 125

HEAT TREATMENT: IN ACCORDANCE WITH MIL-S-6875

TEMPERATURE RANGE: -65°F to +250 °F

DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED

TOLERANCES: DECIMALS $\pm .010$, ANGLES $\pm 1^\circ$

BREAK SHARP EDGES AND CORNERS AND REMOVE ALL BURRS AND SLIVERS.

EXAMPLE OF PART NUMBER:

MS21243

X

X

X

X

X

ADD L FOR LEFT HAND THREAD WHEN SPECIFIED.

KEYWAY (CODE K) WHEN SPECIFIED

BOLT DIAMETER CODE IN MULTIPLES OF 1/16 INCH

ROD END BODY MATERIAL CODE

BASIC MS PART NUMBER

INTERCHANGEABILITY TABLE III

THE FOLLOWING DASH NUMBERS ARE INACTIVE AFTER 22 SEP 70 THE INACTIVE BEARINGS SHOULD BE USED FOR MAINTENANCE PURPOSES UNTIL EXISTING STOCK IS DEPLETED. USE ONLY THE SUBSTITUTIVE BEARINGS FOR NEW DESIGN.

DASH NUMBERS			
INACTIVE MS21243	SUBSTITUTIVE MS21243	INACTIVE MS21243	SUBSTITUTIVE MS21243
C3	83	C8	88
C4	84	C10	810
C5	85	C12	812
C6	86	C14	814
C7	87	C16	816

(C)

P.A. Navy - AS Other Cost USAF - 11 ARMY - AV	TITLE BEARING, PLAIN, ROD END, SELF-ALIGNING, TYPE LINKED, INTERNALLY THREADED	MILITARY STANDARD MS21243
PROCUREMENT SPECIFICATION MIL-B-6946	SUPERSEDES: MS21243(ABC)	SHEET 2 OF 3

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 25 JULY 67 REVISED (C) FOR CHANGES SEE SHEET 1, 2 & 3

USED SYMBOLS:

REVIEWER SYMBOLS:
AF - 99
DLA - 15"Positive/negative information is current as of the date of this document.
For future coordination of changes to this document, draft circulation
should be based on the information in the current DDDIS."This military standard is approved for use by all Departments
of the Department of Defense. Revision for all new
engineering and design applications and for repetitive use shall
be made from this document.FED. SUP CLASS
3120

TABLE IV

INTERCHANGEABILITY TABLE 1/	
INACTIVE FOR NEW DESIGN	SUPERSEDED BY
MS21243S3 ↓ S4 S5 S6 S7 S8 S10 S12 S14 MS21243S16	M81935/2-3 ↓ -4 -5 -6 -7 -8 -10 -12 -14 M81935/2-16

1/ INTERCHANGEABILITY RELATIONSHIP M81935/2 ITEMS CAN UNIVERSALLY REPLACE THE INACTIVE MS21243 ITEMS IDENTIFIED BY THE SAME DASH NUMBERS; BUT THE INACTIVE MS21243 ITEMS CANNOT ALWAYS REPLACE THE SUPERSEDING M81935/2 ITEMS.

APPROVED 25 JULY 67 REVISED (C) FOR CHANGES SEE SHEET 1, 2 & 3

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AV	TITLE BEARING, PLAIN, ROD END, SELF ALIGNING, TFE LINED, INTERNALLY THREADED	MILITARY STANDARD MS21243
PROCUREMENT SPECIFICATION MIL-B-8948	SUPERSEDES MS21243(ASG)	SHEET 3 OF 3