

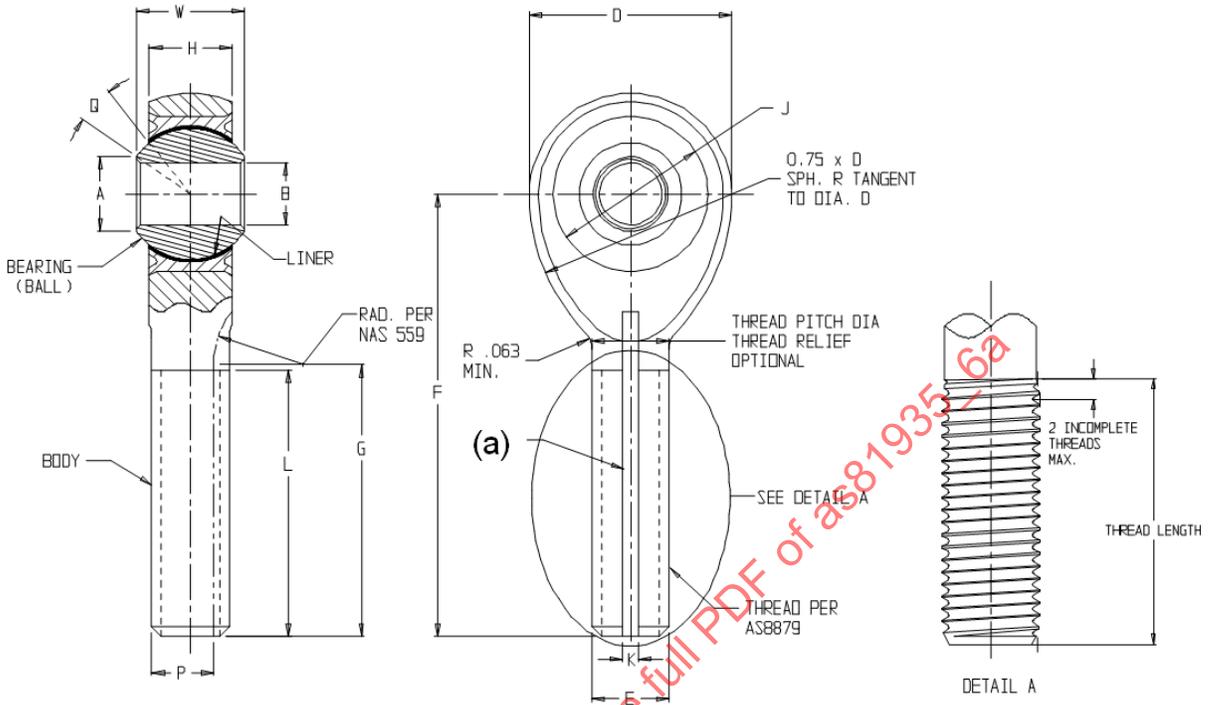
REV. A

SAE AS81935/6

FEDERAL SUPPLY CLASS 3120

RATIONALE

AS81935/6 IS BEING REVISED TO FOR GENERAL FORMATTING, ADDED PH13-8MO BALL OPTION AND TYPE "A" LINER OPTION TO PART NUMBER SUFFIX. REMOVED CAD PLATE STATEMENT.

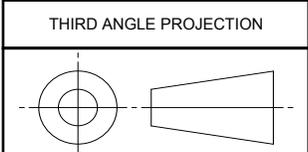


- (a) KEYWAY SHALL BE ORIENTED ALONG THE CENTERLINE OF THE THREADED SHANK. THE PLANE OF THE BOTTOM OF THE KEYWAY SHALL BE PARALLEL TO THE PLANE MADE BY THE FACE OF THE ROD END HOOP.

FIGURE 1 – ROD END ASSEMBLY

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CUSTODIAN: ACBG – PLAIN BEARING

PROCUREMENT SPECIFICATION: AS81935

SAE Aerospace
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AEROSPACE STANDARD

BEARING, PLAIN, ROD END, SELF-ALIGNING, SELF-LUBRICATING, WIDE, EXTERNALLY THREADED, STEEL, CORROSION RESISTANT (CRES)-65 TO +325 °F

SAE AS81935/6
SHEET 1 OF 3

REV. A

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ISSUED 2006-09 REVISED 2011-06

TABLE 1 - DIMENSIONS

DASH NUMBER	B	D	L	E	F	W	H	A
	BORE +.0000 -.0005	SPH. DIA ±.010	THREAD LENGTH ±.031	THREAD SIZE UNJF-3A (c)	CTR LINE BALL TO END ±.010	BALL WIDTH +.000 -.002	BODY WIDTH ±.005	MIN
-03	.1900	.806	.968	.3125-24	1.562	.437	.337	.30
-04	.2500	.806	.968	.3125-24	1.562	.437	.337	.30
-05	.3125	.900	1.187	.3125-24	1.875	.437	.327	.36
-06	.3750	1.025	1.187	.3750-24	1.938	.500	.416	.47
-07	.4375	1.150	1.281	.4375-20	2.125	.562	.452	.54
-08	.5000	1.337	1.468	.5000-20	2.438	.625	.515	.61
-10	.6250	1.525	1.562	.6250-18	2.625	.750	.577	.75
-12	.7500	1.775	1.687	.7500-16	2.875	.875	.640	.85
-14	.8750	2.025	2.000	.8750-14	3.375	.875	.765	1.00
-16	1.0000	2.775	2.343	1.2500-12	4.125	1.375	1.015	1.27

DASH NUMBER	J	Q°	G	K	P
	MAX HOUSING ID	MIN	KEYWAY FLAT +.000 -.020	KEYWAY (b)	
				+ .005 - .000	+ .000 - .005
-03	.6250	15	.980	.062	.268
-04	.6250	15	.980	.062	.268
-05	.6875	14	1.270	.062	.268
-06	.8125	8	1.235	.093	.319
-07	.9062	10	1.402	.093	.383
-08	1.0000	9	1.589	.093	.445
-10	1.1875	12	1.683	.125	.541
-12	1.3750	13	1.808	.125	.663
-14	1.6250	6	2.121	.156	.777
-16	2.1250	12	2.464	.187	1.136

- (b) KEYWAY, WHEN SPECIFIED, IS COMPATIBLE WITH LOCKING DEVICES: AS81935/3 FOR SIZES -03 THROUGH -08, AND NAS 513 FOR SIZES -10 THROUGH -16. KEYWAY TOLERANCES NOT SPECIFIED SHALL BE IN ACCORDANCE WITH AS81935/3 OR NAS 513 AS APPLICABLE
- (c) THREADS SHALL BE FORMED BY A SINGLE ROLLING OPERATION AFTER FINAL HEAT TREAT AS SPECIFIED IN THE THREAD SECTION OF AS81935.

TABLE 2 - LOAD VALUES

DASH NUMBER	ULTIMATE STATIC RADIAL LOAD (LB)	FATIGUE LOAD (LB)	AXIAL PROOF LOAD (LB)	WEIGHT REF (LB)	NO LOAD ROTATIONAL BREAKAWAY TORQUE (IN-LB)	
					MIN	MAX
-03	2360	1470 (d)	1000	.072	.5	6
-04	4860	2380	1000	.072	.5	6
-05	7180	2770 (e)	1100	.087	1	15
-06	8550	3570	1660	.136	1	15
-07	12 000	4800	1850	.183	1	15
-08	19 500	7680 (e)	2040	.278	1	15
-10	21 900	9180	2430	.424	1	15
-12	29 300	11 600	2810	.639	1	15
-14	34 500	13 100	3320	.963	1	24
-16	80 300	30 400	4340	2.546	1	24

- (d) BASED ON BOLT BENDING FATIGUE STRENGTH 180 000 PSI
- (e) SHANK LIMITATION