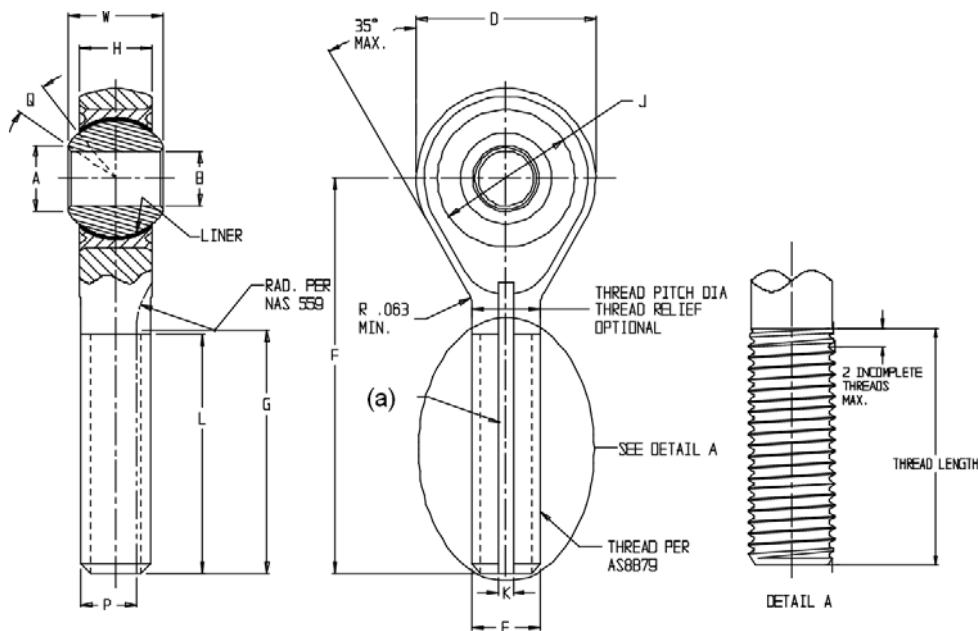


RATIONALE

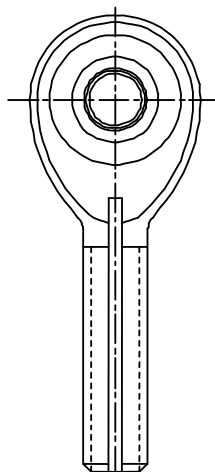
FEDERAL SUPPLY CLASS
3120

AS81935/4 IS BEING REVISED TO CLARIFY THE KEYWAY PART NUMBER ORDERING INFORMATION. CLARIFIED THE PART NUMBER ORDERING OPTIONS FOR THE -03AK. THE KEYWAY FLAT DIMENSIONS WERE CLARIFIED ON THE -03AK. THE -03A PART NUMBER WAS CANCELLED AND SUPERSEDED BY -03B. THE -03B IS A PART NUMBER CHANGE ONLY, DIMENSIONALLY IDENTICAL TO -03A. THE -03B WAS CREATED TO SOLVE THE PROBLEM CREATED WHEN THE AS81820 "A" SUFFIX LINER WAS USED ON THE -03.



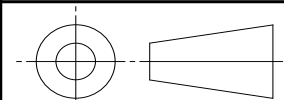
(a) KEYWAY SHALL BE ORIENTED ALONG THE CENTERLINE OF THE THREADED SHANK. THE PLANE OF THE BOTTOM OF THE KEYWAY SHALL BE PARALLEL TO THE PLANE MADE BY THE FACE OF THE ROD END HOOP.

OPTIONAL ELLIPTICAL HEAD DESIGN (BELOW)



SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS81935/4B>

THIRD ANGLE PROJECTION



CUSTODIAN: ACBG

PROCUREMENT SPECIFICATION: AS81935



AEROSPACE STANDARD

BEARING, PLAIN, ROD END, SELF-ALIGNING, SELF-LUBRICATING, NARROW, EXTERNALLY THREADED, -65 TO +325 °F

AS81935/4
SHEET 1 OF 4

REV. B

TABLE 1 - DIMENSIONS

DASH NUMBER	B BORE +.0000 -.0005	D SPH. DIA. ±.010	L THREAD LENGTH ±.031	E THREAD SIZE UNJF-3A (c)	F CTRLINE BALL TO END ±.010	W BALL WIDTH +.000 -.002	H BODY WIDTH ±.005
-03	.1900	.680	.775	.2500-28	1.315	.281	.228
(d) -03A	-.1900	-.680	-.775	-.2500-28	1.315	.281	.228
-03B	.1900	.680	.775	.2500-28	1.315	.281	.228
-04	.2500	.827	.775	.2500-28	1.443	.343	.260
-05	.3125	.984	1.187	.3125-24	1.948	.375	.291
-06	.3750	1.131	1.187	.3750-24	2.030	.406	.322
-07	.4375	1.294	1.281	.4375-20	2.250	.437	.353
-08	.5000	1.459	1.468	.5000-20	2.544	.500	.400
-10	.6250	1.763	1.562	.6250-18	2.832	.625	.510
-12	.7500	2.140	1.687	.7500-16	3.193	.750	.603
-14	.8750	2.372	2.000	.8750-14	3.677	.875	.713
-16	1.0000	2.681	2.100	1.0000-12	3.968	1.000	.807

DASH NUMBER	A	J MAX HOUSING I.D.	Q°	G KEYWAY FLAT	K KEYWAY (b)		P
	MIN		MIN		+.005 -.000	+.000 -.005	
-03	.293	.5625	10	.896/.876	.062	.207	
(d) -03A (D)	-.293	-.5625	10	.876/.836	.062	.207	
-03B (D)	.293	.5625	10	.876/.836	.062	.207	
-04	.364	.6562	10	.896/.876	.062	.207	
-05	.419	.7500	10	1.308/1.288	.062	.268	
-06	.475	.8125	9	1.308/1.288	.093	.319	
-07	.530	.9062	8	1.402/1.382	.093	.383	
-08	.600	1.0000	8	1.589/1.569	.093	.445	
-10	.739	1.1875	8	1.683/1.663	.125	.541	
-12	.920	1.4375	8	1.808/1.788	.125	.663	
-14	.980	1.5625	8	2.121/2.101	.156	.777	
-16	1.118	1.7500	9	2.221/2.201	.156	.900	

- (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.
- (d) THE -03A WAS CANCELLED AND SUPERSEDED BY -03B. THE -03A WAS CREATED BEFORE THE ADDITION OF THE AS81820 TYPE A LINER OPTION. A PART NUMBER CONFLICT EXISTED IF THE -03 WAS ORDERED WITH THE "A" AS81820 OPTION PTFE LINER. THE CONFLICT EXISTED BECAUSE THE -03A DASH NUMBER COULD ONLY BE ORDERED WITH THE KEYWAY OPTION. THE -03A WAS CREATED TO LIMIT THE KEYWAY BREAKOUT SO IT DID NOT ENTER THE ROD END BODY I.D. CHAMFER. THE -03A OPTION COULD ONLY BE ORDERED WITH THE KEYWAY OPTION CONTAINING A "K" IN THE PART NUMBER SUFFIX. IN ORDER TO OVERCOME THE AS81820 TYPE "A" LINER CONFLICT, THE -03A WAS CANCELLED, SUPERSEDED, AND REPLACED BY THE -03B.



AEROSPACE STANDARD

BEARING, PLAIN, ROD END, SELF-ALIGNING, SELF-LUBRICATING, NARROW, EXTERNALLY THREADED,
-65 TO +325 °F

AS81935/4

SHEET 2 OF 4

REV.

Documents
Document Sharing Hub