

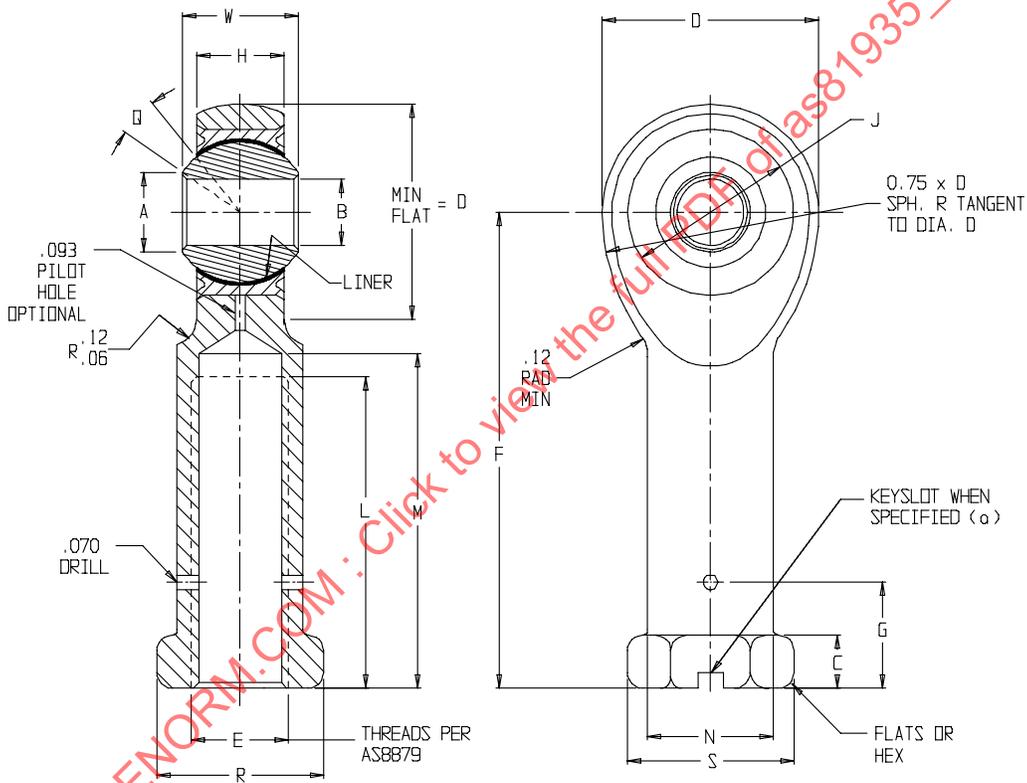
RATIONALE

THIS IS THE INITIAL RELEASE OF AN ALL CORROSION RESISTANT STEEL (CRES) VERSION OF AS81935.

NOTICE

THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS REGARDING ITS USE.

THE REQUIREMENTS FOR PROCURING THE BEARINGS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS81935.



(a) FOR -03 THRU -06, THE KEYSLOT SHALL BE ORIENTED PERPENDICULAR TO THE PLANE MADE BY THE FACE OF THE ROD END HOOP (SEE PAGES 2 AND 3 FOR ADDITIONAL DETAILS).

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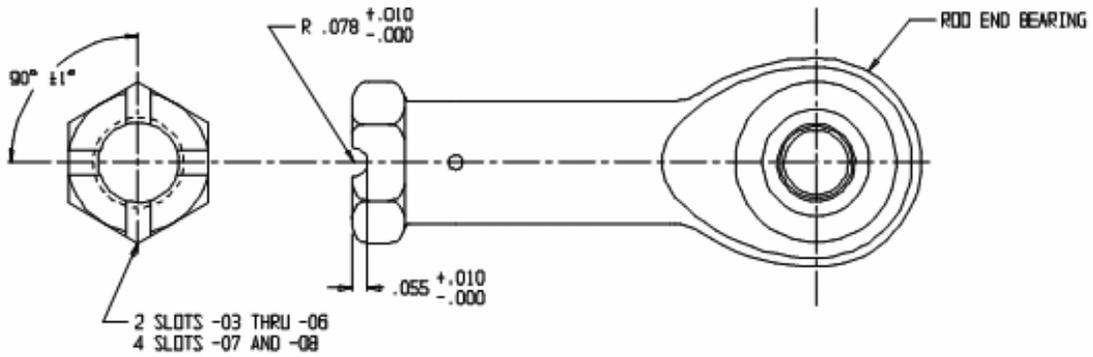
BEARING, PLAIN ROD END, SELF-ALIGNING, SELF-LUBRICATING, WIDE, INTERNALLY THREADED, STEEL, CORROSION RESISTANT (CRES) -65 TO +325 °F

AS81935/7
SHEET 1 OF 5

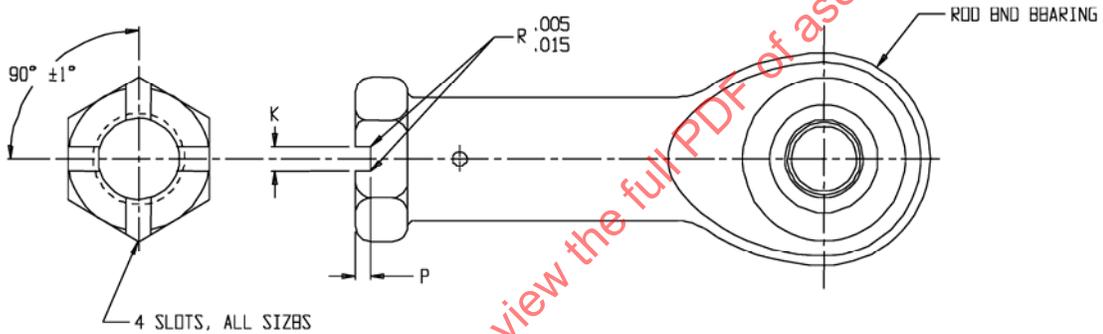
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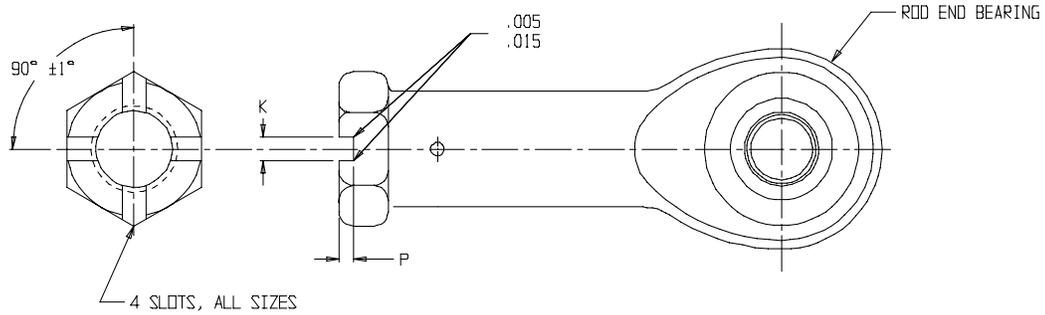
KEYSLOT DESIGNATION "K"
 SIZES -03 THRU -08 (ROUNDED SLOT).
 KEYSLOT, WHEN SPECIFIED, IS COMPATIBLE WITH AS81935/3 LOCKING DEVICE.
 2 SLOTS SHALL BE ORIENTED PERPENDICULAR TO ROD END HOOP FACE.



KEYSLOT DESIGNATION "K"
 SIZES -10 THRU -16 (SQUARE SLOT).
 KEYSLOT, WHEN SPECIFIED, IS COMPATIBLE WITH AS14227, NAS 513 AND NAS 1193
 2 SLOTS SHALL BE ORIENTED PERPENDICULAR TO ROD END HOOP FACE.

DASH NUMBER (REF)	K	P
	+0.005	+0.005
	-0.000	-0.000
-10	.125	.077
-12	.125	.077
-14	.156	.086
-16	.187	.116

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KEYSLOT DESIGNATION "W"

SIZES -03 THRU -16 (DEEP SQUARE SLOT).

KEYSLOT, WHEN SPECIFIED, IS COMPATIBLE WITH NASM-14198, AS14227, NAS 1193, NAS 513, AND NAS 559.

NOTE: DESIGN USAGE RESTRICTIONS APPLY AGAINST NAS 513 AND NAS 559.

2 SLOTS SHALL BE ORIENTED PERPENDICULAR TO ROD END HOOP FACE.

DASH NUMBER	TERMINAL THREAD	K		P	
		+0.005	-0.000	+0.005	-0.000
-03 & -04	5/16-24UNJF-3B	.062	.110	.110	.110
-05 & -06	3/8-24UNJF-3B	.093	.110	.110	.110
-07	7/16-20UNJF-3B	.093	.110	.110	.110
-08	1/2-20UNJF-3B	.093	.110	.110	.110
-10	5/8-18UNJF-3B	.125	.110	.110	.110
-12	3/4-16UNJF-3B	.125	.110	.110	.110
-14	7/8-14UNJF-3B	.156	.110	.110	.110
-16	1-1/4-12UNJF-3B	.187	.116	.116	.116

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TABLE 1 - DIMENSIONS

DASH NUMBER	B	D	L	E	F	G	N	W
	BORE +.0000 -.0005	SPH. DIA ±.010	COMPLETE THREAD MIN	THREAD SIZE UNJF-3B	CTR LINE BALL TO END ±.010	CTR LINE DRILL TO END ±.020	SHANK DIA ±.010	BALL WIDTH +.000 -.002
-03	.1900	.806	.750	.3125-24	1.375	.375	.422	.437
-04	.2500	.806	.750	.3125-24	1.469	.375	.422	.437
-05	.3125	.900	.875	.3750-24	1.625	.437	.485	.437
-06	.3750	1.025	1.000	.3750-24	1.812	.437	.547	.500
-07	.4375	1.150	1.125	.4375-20	2.000	.500	.610	.562
-08	.5000	1.337	1.250	.5000-20	2.250	.562	.735	.625
-10	.6250	1.525	1.375	.6250-18	2.500	.687	.860	.750
-12	.7500	1.775	1.625	.7500-16	2.875	.812	.985	.875
-14	.8750	2.025	1.875	.8750-14	3.375	.937	1.110	.875
-16	1.0000	2.775	2.125	1.2500-12	4.125	1.312	1.688	1.375

DASH NUMBER	H	A	J	M	C	R	Q°	S
	BODY WIDTH ±.005	MIN	MAX HOUSING ID	MAX	HT OF WRENCH SURFACE +.010 -.062	WIDTH ACROSS FLATS +.010 +.010	MIN	REF ACROSS CORNERS OR DIA
-03	.337	.30	.6250	.875	.188	.437	15	.500
-04	.337	.30	.6250	.875	.188	.437	15	.500
-05	.327	.36	.6875	1.000	.250	.500	14	.580
-06	.416	.47	.8125	1.125	.250	.562	8	.660
-07	.452	.54	.9062	1.250	.250	.625	10	.720
-08	.515	.61	1.0000	1.375	.250	.750	9	.880
-10	.577	.75	1.1875	1.500	.375	.875	12	1.020
-12	.640	.85	1.3750	1.750	.375	1.000	13	1.160
-14	.765	1.00	1.6250	2.062	.500	1.125	6	1.300
-16	1.015	1.27	2.1250	2.312	.563	1.750	12	2.020

TABLE 2 - LOAD VALUES

DASH NUMBER	ULTIMATE STATIC LOAD (LB)	FATIGUE LOAD (LB)	AXIAL PROOF LOAD (LB)	WEIGHT MAX (LB) (REF)	NO LOAD ROTATIONAL BREAKAWAY TORQUE (IN-LB)	
					MIN	MAX
-03	2,360	1,470 (b)	1,000	.080	.5	6
-04	4,860	2,380	1,000	.084	.5	6
-05	7,180	3,020	1,100	.102	1	15
-06	8,550	3,570	1,660	.161	1	15
-07	12,000	4,800	1,850	.212	1	15
-08	19,500	8,260	2,040	.325	1	15
-10	21,900	9,180	2,430	.481	1	15
-12	29,300	11,600	2,810	.673	1	15
-14	34,500	13,100	3,320	.959	1	24
-16	80,300	30,400	4,340	2.717	1	24

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