

NOTICE

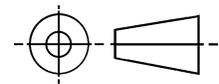
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THIRD ANGLE PROJECTION



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AS21432

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CUSTODIAN: ACBG/ROLLING ELEMENT SUBCOMMITTEE



AEROSPACE STANDARD

BEARING, ROLLER, NEEDLE, TRACK ROLLER,
INTEGRAL STUD, TYPE VII,
ANTIFRICTION, INCH

AS21432
SHEET 1 OF 5

AS21432

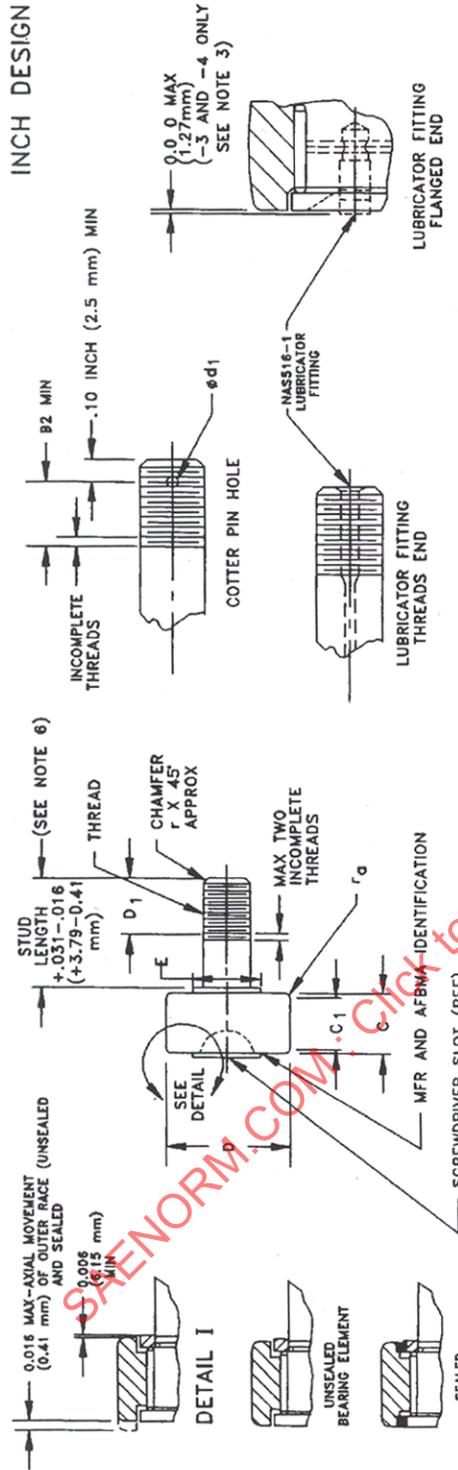
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INCH DESIGN



DIMENSIONS IN INCHES

FIRST DASH NO.	STUD DIA	OUTER RING OUTSIDE DIA	C OUTER RING WIDTH	C1 TRACK CONTACT WIDTH MIN	C1 TRACK CONTACT WIDTH MIN	THREAD SIZE UNJF-3A	B1 THREAD LENGTH REF.	B2 WASHER BACK-UP MIN.	B2 COTTER PIN MALE	r_a 1/ FILLET MAX	r	TOTAL RADIAL PLAY MAX	LIMIT LOAD RATING lbf	2/ lb-in MAX	TRACK CAPACITY C lbf	LOAD RATING A TRACK ROLLER	MASS (APPROX) lb
-3	.1900	.5000	.281	.230	.1900-32	.344	.297	.211	.070	.010	.031	.0017	790	8	385	395	.014 + (GRIPLENGTH NO. X .0005)
-4	.2500	.6675	.281	.230	.2500-28	.344	.359	.224	.076	.010	.031	.0017	940	20	525	470	.031 + (GRIPLENGTH NO. X .0009)
-5	.3125	.7500	.344	.290	.3125-24	.359	.422	.234	.076	.010	.047	.0017	1660	30	725	830	.043 + (GRIPLENGTH NO. X .0014)
-6	.3750	.8750	.469	.380	.3750-24	.359	.500	.265	.106	.025	.047	.0017	2720	55	1100	1360	.043 + (GRIPLENGTH NO. X .0014)
-7	.4375	1.0000	.531	.430	.4375-20	.422	.562	.283	.106	.025	.047	.0017	3860	150	1425	1930	.125 + (GRIPLENGTH NO. X .0026)
-8	.5000	1.1250	.656	.530	.5000-20	.422	.625	.314	.106	.040	.047	.0017	6040	205	1925	3040	.190 + (GRIPLENGTH NO. X .0035)

DIMENSIONS IN MILLIMETERS

FIRST DASH NO.	STUD DIA	OUTER RING OUTSIDE DIA	C OUTER RING WIDTH	C1 TRACK CONTACT WIDTH MIN	C1 TRACK CONTACT WIDTH MIN	THREAD SIZE UNJF-3A	B1 THREAD LENGTH REF.	B2 WASHER BACK-UP MIN.	B2 COTTER PIN MALE	r_a 1/ FILLET MAX	r	TOTAL RADIAL PLAY MAX	LIMIT LOAD RATING lbf	2/ lb-in MAX	TRACK CAPACITY C N	LOAD RATING A TRACK ROLLER	MASS (APPROX) kg
-3	4.826	12.700	7.14	5.4	1900-32	8.7	7.54	5.4	1.8	.2	.8	.043	3510	1.7	1710	1760	.006 + (GRIPLENGTH NO. X .0002)
-4	6.350	17.462	7.14	5.4	2500-28	8.7	8.12	5.7	1.9	.25	.8	.043	4100	2.5	2340	2090	.014 + (GRIPLENGTH NO. X .0004)
-5	7.925	19.050	8.74	7.37	3125-24	9.1	10.72	5.9	1.9	.25	1.2	.043	7300	3.4	3220	3690	.020 + (GRIPLENGTH NO. X .0006)
-6	9.525	22.225	11.91	9.65	3750-24	9.1	12.70	6.7	2.7	.64	1.2	.043	12100	6.0	4890	6050	.037 + (GRIPLENGTH NO. X .0009)
-7	11.100	25.400	13.49	10.82	4375-20	10.7	14.27	7.2	2.7	.64	1.2	.043	17200	7.0	6340	8500	.057 + (GRIPLENGTH NO. X .0012)
-8	12.700	28.575	16.66	13.46	5000-20	10.7	15.88	8.0	2.7	.8	1.2	.043	27000	23.0	8700	13500	.06 + (GRIPLENGTH NO. X .0016)

1/ THE CHAMFER ON BEARINGS MUST CLEAR THE MAXIMUM FILLET RADIUS GIVEN IN THE TABLE.

THIS SPECIFICATION DOES NOT CONTROL BEARING CHAMFER CONTOUR.

2/ INSTALLATION TORQUE LUBRICATED THREADS.

TABLE I. TOLERANCE VALUE

Ød BASIC BORE		ALLOWABLE DEVIATION FROM d OF SINGLE MEAN DIA., d _{mp}		ALLOWABLE DEVIATION FROM COTTER PIN DIA., d	
OVER	INCL	HIGH	LOW	HIGH	LOW
.1250	.50000	+0	-.0015	+.010	-0

DIMENSIONS IN INCHES

ØD BASIC OUTSIDE DIA		ALLOWABLE DEVIATION FROM D OF SINGLE MEAN DIA., D _{mp}		ALLOWABLE DEVIATION FROM OUTER RING WIDTH C	
OVER	INCL	HIGH	LOW	HIGH	LOW
.4375	1.1250	+.0010	-.0005	+0	-.005

Ød BASIC BORE		ALLOWABLE DEVIATION FROM d OF SINGLE MEAN DIA., d _{mp}		ALLOWABLE DEVIATION FROM COTTER PIN DIA., d	
OVER	INCL	HIGH	LOW	HIGH	LOW
3.175	12.700	+0	-.0038	+.25	-0

DIMENSIONS IN MILLIMETERS

ØD BASIC OUTSIDE DIA		ALLOWABLE DEVIATION FROM D OF SINGLE MEAN DIA., D _{mp}		ALLOWABLE DEVIATION FROM OUTER RING WIDTH C	
OVER	INCL	HIGH	LOW	HIGH	LOW
11.112	28.575	+.025	-.013	+0	-.13

REQUIREMENTS:

MATERIAL: STEEL, MIL-S-8690, QQ-S-624, QQ-S-633, FED-STD NO. 66 STEEL NO. 50100, 51100 AND 52100. SEALS, ACETAL RESIN, NYLON, OR EQUIVALENT, CONSTRUCTION OPTIONAL.

FINISH: ROLLER OD AND SIDES CHROME PLATED IN ACCORDANCE WITH QQ-C-320, CLASS 2, EXCEPT THICKNESS TO BE .010-.018 mm (.0004-.0007 INCHES). EXPOSED SURFACES OF OTHER PARTS AS MOUNTED, ZINC-NICKEL IN ACCORDANCE WITH AMS 2417, TYPE 2, OR CADMIUM PLATED IN ACCORDANCE WITH QQ-P-416, TYPE I, CLASS 2, .0003 TO .0006 INCHES THICK.

EXAMPLE OF PART NUMBER:

