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REV.
D

AS24463™

FEDERAL SUPPLY CLASS
3110

RATIONALE

AS24463 REV D IS A LIMITED SCOPE REVISION TO CORRECT WASHER HARDNESS. SPECIFIED CLASS FOR BLACK OXIDE FINISH.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS39901.

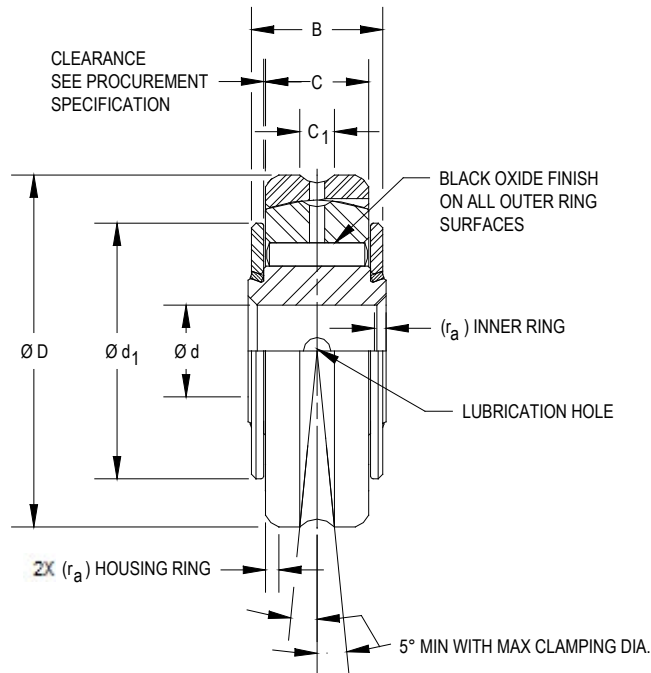
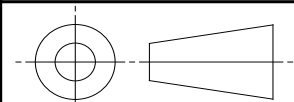


FIGURE 1 - PART CONFIGURATION

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://standards.sae.org/AS24463D>

THIRD ANGLE PROJECTION



CUSTODIAN: ACBG

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

BEARING, ROLLER, NEEDLE-SINGLE ROW,
HEAVY DUTY, SELF-ALIGNING,
TYPE III, ANTIFRICTION, INCH

AS24463™
SHEET 1 OF 4

REV.
D

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TABLE 1 - DIMENSIONS

DASH NUMBER	d BORE	D HOUSING DIA	B OVERALL WIDTH	C OUTER WIDTH	d1 WASHER DIA	C1 GROOVE WIDTH	ra 1/ FILLET MAX TYP	TOTAL RADIAL PLAY MAX	LIMIT LOAD RATING (LBF)	MASS (APPROX) LB
-3	.1900	.8750	.312	.218	.625	.043	.022	.0029	1800	.041
-4	.2500	.9375	.375	.281	.687	.093	.022	.0029	2870	.053
-5	.3125	1.0625	.437	.344	.750	.093	.022	.0029	4070	.079

1/ THE CHAMFER ON BEARINGS MUST CLEAR THE MAXIMUM FILLET RADIUS GIVEN IN TABLE 1.
THIS SPECIFICATION DOES NOT CONTROL BEARING CHAMFER CONTOURS.

TABLE 2 - MOUNTING

DASH NUMBER	da CLAMPING DIAMETER		HOUSING SIZE +.0000 -.0001	
	MAX	MIN	LOW	HIGH
-3	.525	.438	.8742	.8747
-4	.688	.516	.9367	.9372
-5	.734	.578	1.0617	1.0622

TABLE 3 - OIL HOLE DATA

BORE – DASH NO.		NUMBER OF HOLES		
OVER	INCL	INNER RING	OUTER RING	SPHERICAL HOUSING
2	5	NONE	2	2

TABLE 4

TABLE 4A - TOLERANCE LIMITS

Ød BASIC BORE		ALLOWABLE DEVIATION FROM d OF SINGLE MEAN DIA d		ALLOWABLE DEVIATION FROM OVERALL WIDTH B		ALLOWABLE DEVIATION FROM WASHER OUTSIDE DIA d _i	
OVER	INCL	HIGH	LOW	HIGH	LOW	HIGH	LOW
0.125	0.3125	+0	-.0007	+0	-.005	+.010	-.010

TABLE 4B

ØD BASIC OUTSIDE DIAMETER		ALLOWABLE DEVIATION FROM D OF SINGLE MEAN DIA D		ALLOWABLE DEVIATION FROM OUTER RING WIDTH C		ALLOWABLE DEVIATION FROM LUBRICATION GROOVE WIDTH DIA C ₁	
OVER	INCL	HIGH	LOW	HIGH	LOW	HIGH	LOW
0.75	1.0625	+0	-.0005	+0	-.005	+.031	-.031

	AEROSPACE STANDARD		AS24463™ SHEET 2 OF 4	REV. D
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 Documents