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REV.
B

AS24465™

FEDERAL SUPPLY CLASS
3110

RATIONALE

AS24465 REV. B IS A FIVE-YEAR REVIEW. CHANGES INCLUDE ADDING AISI 1074 WASHER MATERIAL THAT WAS INCORRECTLY REMOVED IN REV. A. UPDATED FIGURE 1. CORRECTED TABLE 2 TOLERANCE LIMITS. UPDATED TABLE 3 TITLE. UPDATED SUPERSEDED MATERIAL TO ASTM A295/A295M.

NOTICE

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

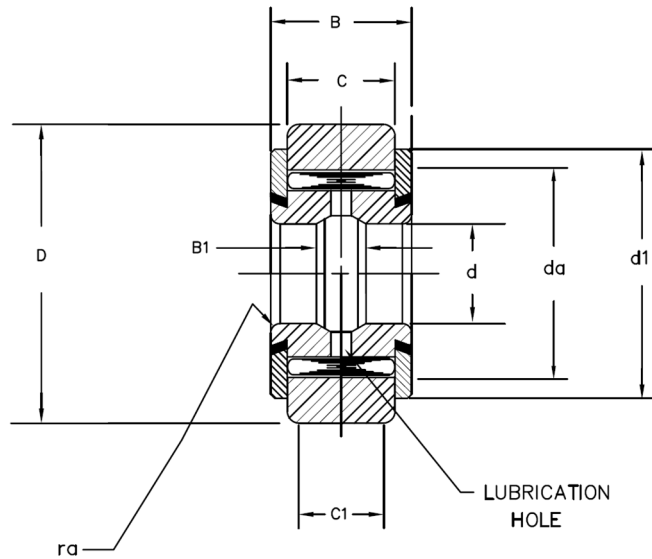
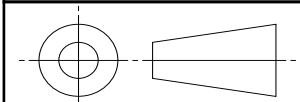


FIGURE 1 - BEARING SECTION

REFER TO AS21438 AS A SUGGESTED REPLACEMENT FOR AS24465 AT THE POINT OF DESIGN. DESIGNERS ARE CAUTIONED TO EVALUATE AS21438 FOR THEIR PARTICULAR APPLICATION.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS24465B/>

THIRD ANGLE PROJECTION



CUSTODIAN: ACBG

PROCUREMENT SPECIFICATION: AS39901



AEROSPACE STANDARD

(R) BEARING, ROLLER, NEEDLE-SINGLE ROW,
HEAVY DUTY, TRACK ROLLER, TYPE V,
ANTIFRICTION, INCH

AS24465™
SHEET 1 OF 4

REV.
B

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TABLE 1 - BEARING PROPERTIES

DASH NO.	Ød BORE	ØD OUTER RING OUTSIDE DIA	B OVERALL WIDTH	C OUTER RING WIDTH	C1 TRACK CONTACT WIDTH MIN	Ød1 WASH OUTSIDE DIA	B1 LUBE GROOVE WIDTH	ra 1/ FILLET MAX	TOTAL RAD. CLEARANCE MAX	Øda CLAMP DIA MIN	2/ LIMIT LOAD RATING (LBF)	3/ LOAD RATING AS A TRACK ROLLER (LBF)	TRACK CAP 40 HRC (LBF)	WT LB/EA APPROX
-3	.1900	.7500	.312	.218	.125	.688	.094	.022	.0014	.438	1200	900	290	.029
-4	.2500	.8750	.375	.281	.218	.750	.125	.022	.0014	.516	1910	1430	575	.049
-6	.3750	1.0625	.500	.375	.312	.938	.188	.022	.0014	.672	3600	2700	1000	.098
-8	.5000	1.3125	.625	.500	.438	1.188	.188	.032	.0014	.844	5780	4300	1785	.178
-10	.6250	1.5000	.750	.625	.562	1.375	.250	.032	.0014	.953	8530	6400	2600	.266
-12	.7500	1.7500	1.000	.875	.750	1.625	.250	.032	.0014	1.109	14200	10700	4050	.495
-14	.8750	2.0000	1.125	1.000	.875	1.875	.250	.032	.0014	1.219	19300	14400	5350	.713
-20	1.2500	2.5000	1.250	1.049	.938	1.906	.375	.032	.0014	1.625	25300	18900	7100	1.10
-24	1.5000	3.0000	1.500	1.299	1.172	2.875	.375	.032	.0015	1.984	37900	28400	10900	2.25
-28	1.7500	3.4375	1.500	1.299	1.172	3.312	.375	.032	.0015	2.281	44100	33000	12400	3.16
-32	2.0000	3.8750	1.500	1.299	1.172	3.750	.375	.032	.0015	2.562	48900	36700	14000	3.82
-36	2.2500	4.3125	1.500	1.299	1.172	4.188	.375	.032	.0017	2.859	55000	41200	15600	4.81
-40	2.5000	4.7500	1.500	1.299	1.172	4.625	.375	.032	.0017	3.109	59900	44900	17200	5.94
-44	2.7500	5.0000	1.500	1.299	1.172	4.875	.375	.032	.0017	3.344	64800	48600	18100	7.20

- 1/ THE CHAMFER ON THE BEARING SHALL CLEAR THE MAXIMUM FILLET RADIUS GIVEN IN THE TABLE. HOWEVER, THIS SPECIFICATION DOES NOT CONTROL BEARING CHAMFER CONTOURS.
- 2/ THE LIMIT LOAD RATING LISTED CAN BE DEFINED AS THE MAXIMUM RADIAL LOAD WHICH CAN BE APPLIED TO A BEARING WITHOUT IMPAIRING THE SUBSEQUENT FUNCTIONING OF THE BEARING. THE ULTIMATE OR STATIC FRACTURE LOAD RATING SHALL NOT BE LESS THAN 1.5 TIMES THE LIMIT LOAD RATING.
- 3/ THE CAPACITY AS A TRACK ROLLER IS THE LOAD A BEARING WILL CARRY AS A TRACK ROLLER FOR AN L-10 LIFE OF 20000 REVOLUTIONS.

TABLE 2 - TOLERANCE LIMITS

Ød BASIC BORE		ALLOWABLE DEVIATION FROM d OF SINGLE MEAN DIA Ød		ALLOWABLE DEVIATION FROM OVERALL WIDTH B		ALLOWABLE DEVIATION FROM WASHER OUTSIDE DIA Ød1		ALLOWABLE DEVIATION FROM LUBRICATION GROOVE WIDTH B1		ØD BASIC OUTER RING OUTSIDE DIA		ALLOWABLE DEVIATION FROM D OF SINGLE MEAN DIA D		ALLOWABLE DEVIATION FROM OUTER RING WIDTH C	
OVER	INCL	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	OVER	INCL	HIGH	LOW	HIGH	LOW
.1250	2.7500	+0	-.0007	+0	-.005	+.010	-.010	+0	-.062	.6875	5.000	+.000	-.001	+0	-.005

TABLE 3 - LUBRICATION HOLE

BORE – DASH NO.		NUMBER OF HOLES
OVER	INCL	INNER RING
-2	-10	2
-10	-44	4

	AEROSPACE STANDARD	AS24465™ SHEET 2 OF 4	REV. B 
	(R) BEARING, ROLLER, NEEDLE-SINGLE ROW, HEAVY DUTY, TRACK ROLLER, TYPE V, ANTIFRICTION, INCH		

