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AS21440

FEDERAL SUPPLY CLASS
3110

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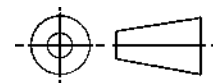
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THIRD ANGLE PROJECTION



ISSUED 2002-02

CUSTODIAN: SAE ACBG

SAE The Engineering Society
For Advancing Mobility
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

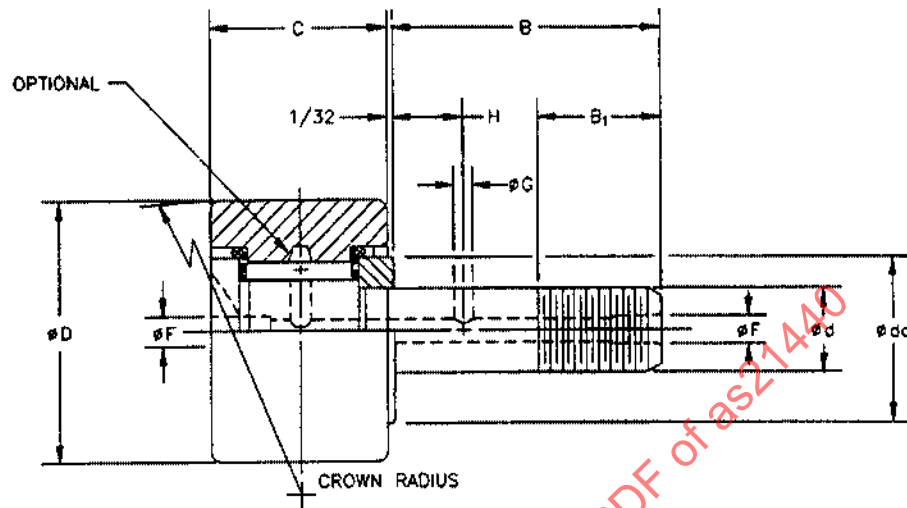
AEROSPACE STANDARD

BEARING, ROLLER, NEEDLE, TRACK ROLLER,
INTEGRAL STUD, SEALED, TYPE VIII,
ANTIFRICTION, INCH

AS21440
SHEET 1 OF 3

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION MIL-B-3990.

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.



Dimensions in inches

Dash No	Stud Diameter	Outside Diameter	C Outer Ring Width	B Stud Length	B1 Minimum Perfect Thread Length	Fine Threads UNF	Oil Hole Dia	H Hole Center	ØF Lub Fitting Size	Crown Radius Ref	Total Radial Clearance Max	Øda Clamp- ing Dia Min	1/ Lbf-in Max	Capacity As a Track Roller lbf	Track Capacity lbf	Limit Load Rating lbf	W Api
-080	0.1900	0.5000	0.344	0.500	0.2500	10-32	-	-	0.125	6.00	0.0023	0.30	8.0	600	450	600	0
-081	0.1900	0.5000	0.375	0.625	0.2500	10-32	-	-	0.125	7.00	0.0023	0.30	8.0	700	508	700	0
-081	0.1900	0.5625	0.375	0.625	0.2500	10-32	-	-	0.125	7.00	0.0023	0.30	8.0	700	575	700	0
-101	0.2500	0.6250	0.405	0.625	0.3125	1/4-28	-	-	0.125	7.00	0.0023	0.36	10.0	1000	657	1000	0
-102	0.2500	0.6250	0.438	0.750	0.3125	1/4-28	-	-	0.125	8.00	0.0023	0.36	10.0	1100	718	1100	0
-111	0.2500	0.6875	0.438	0.750	0.3125	1/4-28	-	-	0.125	8.00	0.0023	0.36	10.0	1100	865	1100	0
-121	0.3750	0.7500	0.500	0.875	0.3750	3/8-24	0.094	0.250	0.188	10.00	0.0023	0.50	55.0	2000	1030	2000	0
-141	0.3750	0.8750	0.500	0.875	0.3750	3/8-24	0.094	0.250	0.188	10.00	0.0023	0.50	55.0	2000	1160	2000	0
-161	0.4375	1.0000	0.625	1.000	0.5000	7/16-20	0.125	0.250	0.188	12.00	0.0023	0.64	150.0	2900	1480	2900	2
-181	0.4375	1.1250	0.625	1.000	0.5000	7/16-20	0.125	0.250	0.188	12.00	0.0023	0.64	150.0	2900	1670	2900	0
-201	0.5000	1.2500	0.750	1.250	0.6250	1/2-20	0.125	0.312	0.188	14.00	0.0023	0.77	205.0	4100	2330	4100	0
-221	0.5000	1.3750	0.750	1.250	0.6250	1/2-20	0.125	0.312	0.188	14.00	0.0023	0.77	205.0	4100	2570	4100	0
-241	0.6250	1.5000	0.875	1.500	0.7500	5/8-18	0.157	0.375	0.188	20.00	0.0023	0.89	390.0	5500	3380	5500	0
-261	0.6250	1.6250	0.875	1.500	0.7500	5/8-18	0.157	0.375	0.188	20.00	0.0023	0.89	390.0	5500	3660	5500	0
-281	0.7500	1.7500	1.000	1.750	0.8750	3/4-16	0.157	0.438	0.188	20.00	0.0023	1.05	750.0	7700	4500	7700	0
-301	0.7500	1.8750	1.000	1.750	0.8750	3/4-16	0.157	0.438	0.188	20.00	0.0023	1.05	750.0	7700	4820	7700	0
-321	0.8750	2.0000	1.250	2.000	1.0000	7/8-14	0.188	0.500	0.188	24.00	0.0023	1.20	900.0	10400	6550	10400	1
-361	0.8750	2.2500	1.250	2.000	1.0000	7/8-14	0.188	0.500	0.188	24.00	0.0023	1.20	900.0	10400	7370	10400	0
-401	1.0000	2.5000	1.500	2.250	1.1250	1-14	0.188	0.562	0.188	30.00	0.0023	1.31	1350.0	16200	8250	16200	2
-441	1.0000	2.7500	1.500	2.250	1.1250	1-14	0.188	0.562	0.188	30.00	0.0023	1.31	1350.0	16200	10200	16200	0
-481	1.2500	3.0000	1.750	2.500	1.2500	1 1/4-12	0.188	0.625	0.250	30.00	0.0023	1.75	2050.0	24600	13400	24600	4
-521	1.2500	3.2500	1.750	2.500	1.2500	1 1/4-12	0.188	0.625	0.250	30.00	0.0023	1.75	2050.0	24600	14500	24600	0
-561	1.3750	3.5000	2.000	2.750	1.3750	1 3/8-12	0.188	0.688	0.250	30.00	0.0023	1.92	2500.0	31200	18300	31200	6
-641	1.5000	4.0000	2.250	3.500	1.5000	1 1/2-12	0.188	0.750	0.250	30.00	0.0023	2.28	3000.0	41000	24100	41000	8

* OIL HOLE "F" DRILLED FROM THE FLANGE END OF THE STUD TO THE RADIAL OIL HOLE ONLY
1/ INSTALLATION TORQUE LUBRICATED THREADS

INCH-POUND