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REV.
C

AS21440™

FEDERAL SUPPLY CLASS
3110

RATIONALE

THIS IS A LIMITED SCOPE CHANGE TO INCLUDE ADDITIONAL SEAL MATERIAL TO COMPLY WITH SIMILAR INDUSTRY STANDARDS.

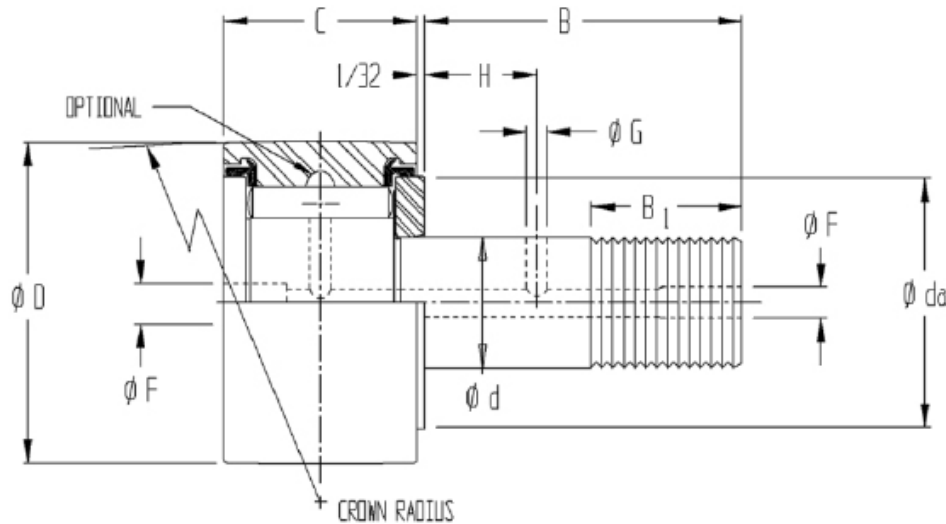
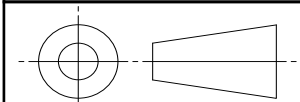


FIGURE 1 - PART CONFIGURATION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS21440C>

THIRD ANGLE PROJECTION



CUSTODIAN: ACBG

PROCUREMENT SPECIFICATION: AS39901



AEROSPACE STANDARD

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

AS21440™
SHEET 1 OF 4

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TABLE 1A - DIMENSIONS

DASH NO.	Ød STUD DIA	ØD OUTSIDE DIA	C OUTER RING WIDTH	B STUD LENGTH	B ₁ MINIMUM PERFECT THREAD LENGTH	THREADS UNF-3A	OIL HOLE		ØF LUBE FITTING SIZE	CROWN RADIUS REF							
							ØG HOLE DIA	H HOLE CENTER									
-080	.1900	.5000	.344	.500	.2500	10-32	--	--	.125*	6							
-081			.375	.625						.3125	1/4-28	7					
-091		.406											.750	.438	8		
-101	.6250		.438	.750	.3125	1/4-28						.094				.250	10
-102																	
-111	.7500	.625	1.000	.5000	7/16-20	.157	.375	20									
-121									.8750	.750	1.250	.6250	1/2-20	.188	.438	24	
-141	1.0000	.875	1.500	.7500	5/8-18	.188	.500	30									
-161									1.1250	.9375	1.750	.8750	3/4-16	.188	.562	30	
-181	1.2500	1.000	2.000	1.0000	7/8-14	.188	.625	30									
-201									1.3750	1.125	2.250	1.1250	1-1/4-12	.188	.688	30	
-221	1.5000	1.250	2.500	1.2500	1-1/2-12	.188	.750	30									
-241									1.6250	1.375	2.750	1.3750	1-3/8-12	.188	.812	30	
-261	1.7500	1.500	3.000	1.5000	1-7/8-12	.188	.875	30									
-281									1.8750	1.625	3.250	1.6250	1-5/8-12	.188	.937	30	
-301	2.0000	1.750	3.500	1.7500	1-3/4-12	.188	.937	30									
-321									2.1250	1.875	3.750	1.8750	1-7/4-12	.188	.937	30	
-341	2.2500	2.000	4.000	2.0000	1-7/8-12	.188	.937	30									
-361									2.3750	2.125	4.250	2.1250	1-7/8-12	.188	.937	30	
-381	2.5000	2.250	4.500	2.2500	1-7/8-12	.188	.937	30									
-401									2.6250	2.375	4.750	2.3750	1-7/8-12	.188	.937	30	
-421	2.7500	2.500	5.000	2.5000	1-7/8-12	.188	.937	30									
-441									2.8750	2.625	5.250	2.6250	1-7/8-12	.188	.937	30	
-461	3.0000	2.750	5.500	2.7500	1-7/8-12	.188	.937	30									
-481									3.1250	2.875	5.750	2.8750	1-7/8-12	.188	.937	30	
-501	3.2500	3.000	6.000	3.0000	1-7/8-12	.188	.937	30									
-521									3.3750	3.125	6.250	3.1250	1-7/8-12	.188	.937	30	
-541	3.5000	3.250	6.500	3.2500	1-7/8-12	.188	.937	30									
-561									3.6250	3.375	6.750	3.3750	1-7/8-12	.188	.937	30	
-581	3.7500	3.500	7.000	3.5000	1-7/8-12	.188	.937	30									
-601									3.8750	3.625	7.250	3.6250	1-7/8-12	.188	.937	30	
-621	4.0000	3.750	7.500	3.7500	1-7/8-12	.188	.937	30									
-641									4.1250	3.875	7.750	3.8750	1-7/8-12	.188	.937	30	
-661	4.2500	4.000	8.000	4.0000	1-7/8-12	.188	.937	30									
-681									4.3750	4.125	8.250	4.1250	1-7/8-12	.188	.937	30	
-701	4.5000	4.250	8.500	4.2500	1-7/8-12	.188	.937	30									
-721									4.6250	4.375	8.750	4.3750	1-7/8-12	.188	.937	30	
-741	4.7500	4.500	9.000	4.5000	1-7/8-12	.188	.937	30									
-761									4.8750	4.625	9.250	4.6250	1-7/8-12	.188	.937	30	
-781	5.0000	4.750	9.500	4.7500	1-7/8-12	.188	.937	30									
-801									5.1250	4.875	9.750	4.8750	1-7/8-12	.188	.937	30	
-821	5.2500	5.000	10.000	5.0000	1-7/8-12	.188	.937	30									
-841									5.3750	5.125	10.250	5.1250	1-7/8-12	.188	.937	30	
-861	5.5000	5.250	10.500	5.2500	1-7/8-12	.188	.937	30									
-881									5.6250	5.375	10.750	5.3750	1-7/8-12	.188	.937	30	
-901	5.7500	5.500	11.000	5.5000	1-7/8-12	.188	.937	30									
-921									5.8750	5.625	11.250	5.6250	1-7/8-12	.188	.937	30	
-941	6.0000	5.750	11.500	5.7500	1-7/8-12	.188	.937	30									
-961									6.1250	5.875	11.750	5.8750	1-7/8-12	.188	.937	30	
-981	6.2500	6.000	12.000	6.0000	1-7/8-12	.188	.937	30									
-1001									6.3750	6.125	12.250	6.1250	1-7/8-12	.188	.937	30	
-1021	6.5000	6.250	12.500	6.2500	1-7/8-12	.188	.937	30									
-1041									6.6250	6.375	12.750	6.3750	1-7/8-12	.188	.937	30	
-1061	6.7500	6.500	13.000	6.5000	1-7/8-12	.188	.937	30									
-1081									6.8750	6.625	13.250	6.6250	1-7/8-12	.188	.937	30	
-1101	7.0000	6.750	13.500	6.7500	1-7/8-12	.188	.937	30									
-1121									7.1250	6.875	13.750	6.8750	1-7/8-12	.188	.937	30	
-1141	7.2500	7.000	14.000	7.0000	1-7/8-12	.188	.937	30									
-1161									7.3750	7.125	14.250	7.1250	1-7/8-12	.188	.937	30	
-1181	7.5000	7.250	14.500	7.2500	1-7/8-12	.188	.937	30									
-1201									7.6250	7.375	14.750	7.3750	1-7/8-12	.188	.937	30	
-1221	7.7500	7.500	15.000	7.5000	1-7/8-12	.188	.937	30									
-1241									7.8750	7.625	15.250	7.6250	1-7/8-12	.188	.937	30	
-1261	8.0000	7.750	15.500	7.7500	1-7/8-12	.188	.937	30									
-1281									8.1250	7.875	15.750	7.8750	1-7/8-12	.188	.937	30	
-1301	8.2500	8.000	16.000	8.0000	1-7/8-12	.188	.937	30									
-1321									8.3750	8.125	16.250	8.1250	1-7/8-12	.188	.937	30	
-1341	8.5000	8.250	16.500	8.2500	1-7/8-12	.188	.937	30									
-1361									8.6250	8.375	16.750	8.3750	1-7/8-12	.188	.937	30	
-1381	8.7500	8.500	17.000	8.5000	1-7/8-12	.188	.937	30									
-1401									8.8750	8.625	17.250	8.6250	1-7/8-12	.188	.937	30	
-1421	9.0000	8.750	17.500	8.7500	1-7/8-12	.188	.937	30									
-1441									9.1250	8.875	17.750	8.8750	1-7/8-12	.188	.937	30	
-1461	9.2500	9.000	18.000	9.0000	1-7/8-12	.188	.937	30									
-1481									9.3750	9.125	18.250	9.1250	1-7/8-12	.188	.937	30	
-1501	9.5000	9.250	18.500	9.2500	1-7/8-12	.188	.937	30									
-1521									9.6250	9.375	18.750	9.3750	1-7/8-12	.188	.937	30	
-1541	9.7500	9.500	19.000	9.5000	1-7/8-12	.188	.937	30									
-1561									9.8750	9.625	19.250	9.6250	1-7/8-12	.188	.937	30	
-1581	10.0000	9.750	19.500	9.7500	1-7/8-12	.188	.937	30									
-1601									10.1250	9.875	19.750	9.8750	1-7/8-12	.188	.937	30	
-1621	10.2500	10.000	20.000	10.0000	1-7/8-12	.188	.937	30									
-1641									10.3750	10.125	20.250	10.1250	1-7/8-12	.188	.937	30	
-1661	10.5000	10.250	20.500	10.2500	1-7/8-12	.188	.937	30									
-1681									10.6250	10.375	20.750	10.3750	1-7/8-12	.188	.937	30	
-1701	10.7500	10.500	21.000	10.5000	1-7/8-12	.188	.937	30									
-1721									10.8750	10.625	21.250	10.6250	1-7/8-12	.188	.937	30	
-1741	11.0000	10.750	21.500	10.7500	1-7/8-12	.188	.937	30									
-1761									11.1250	10.875	21.750	10.8750	1-7/8-12	.188	.937	30	
-1781	11.2500	11.000	22.000	11.0000	1-7/8-12	.188	.937	30									
-1801									11.3750	11.125	22.250	11.1250	1-7/8-12	.188	.937	30	
-1821	11.5000	11.250	22.500	11.2500	1-7/8-12	.188	.937	30									
-1841									11.6250	11.375	22.750	11.3750	1-7/8-12	.188	.937	30	
-1861	11.7500	11.500	23.000	11.5000	1-7/8-12	.188	.937	30									
-1881									11.8750	11.625	23.250	11.6250	1-7/8-12	.188	.937	30	
-1901	12.0000	11.750	23.500	11.7500	1-7/8-12	.188	.937	30									
-1921									12.1250	11.875	23.750	11.8750	1-7/8-12	.188	.937	30	
-1941	12.2500	12.000	24.000	12.0000	1-7/8-12	.188	.937	30									
-1961									12.3750	12.125	24.250	12.1250	1-7/8-12	.188	.937	30	
-1981	12.5000	12.250	24.500	12.2500	1-7/8-12	.188	.937	30									
-2001									12.6250	12.375	24.750	12.3750	1-7/8-12	.188	.937	30	
-2021	12.7500	12.500	25.000	12.5000	1-7/8-12	.188	.937	30									
-2041									12.8750	12.625	25.250	12.6250	1-7/8-12	.188	.937	30	
-2061	13.0000	12.750	25.500	12.7500	1-7/8-12	.188	.937	30									
-2081									13.1250	12.875	25.750	12.8750	1-7/8-12	.188			

* OIL HOLE "F" DRILLED FROM THE FLANGE END OF THE STUD TO THE RADIAL OIL HOLE ONLY.

TABLE 1B - DIMENSIONS

DASH NO.	Ød _a CLAMPING DIA MIN	TORQUE LBS-IN MAX 1/	CAPACITY AS A TRACK ROLLER	TRACK CAPACITY HRC 40 LBF	LIMIT LOAD RATING LBF	MASS (APPROX) LBS
-080	.30	8	600	460	600	.02
-081			700	508	700	.03
-091				575		.04
-101	.36	10	1000	657	1000	.05
-102			1100	718	1100	.06
-111				865		.08
-121	.50	55	2000	1030	2000	.10
-141				1160		.16
-161				1480		.20
-181	.64	150	2900	1670	2900	.30
-201				2330		.35
-221				2570		.53
-241	.89	390	5500	3380	5500	.61
-261				3660		.85
-281				4500		.95
-301	1.05	750	7700	4820	7700	1.37
-321				6550		1.67
-361				7370		2.50
-401	1.20	900	10400	9250	10400	2.93
-441				10200		4.20
-481				13400		4.81
-521	1.31	1350	16200	14500	16200	6.42
-561				9250		9.46
-641				10200		

1/ INSTALLATION TORQUE LUBRICATED THREADS



AEROSPACE STANDARD

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

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