

REV.
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SAE AS9390

RATIONALE

THIS STANDARD IS BEING REVISED TO CORRECT THE DELINEATION OF END RADIUS.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9390C, THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

FEDERAL SUPPLY CLASS
5315

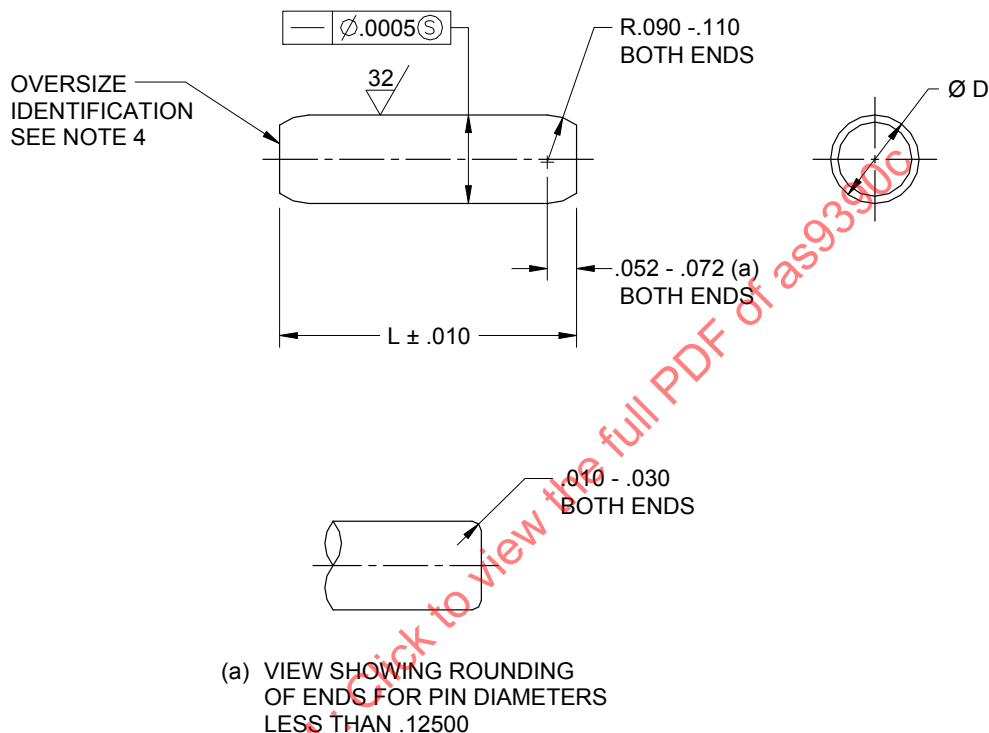
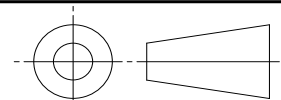


FIGURE 1 - PIN

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS9390C>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

PIN, STRAIGHT, HEADLESS, DOWEL -
CRES, UNS S66286,
STANDARD AND OVERSIZE

SAE AS9390
SHEET 1 OF 5

REV.
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TABLE 1 - PART NUMBERS AND DIMENSIONS

	STANDARD SIZE	APPROX. MASS LB/100	OVERSIZE IDENTIFICATION - SEE NOTE 4			
			.002 OVERSIZE (2)	.005 OVERSIZE (5)	.010 OVERSIZE (10)	.015 OVERSIZE (15)
D	.06250 ±.00025		.06450 ±.00025	.06750 ±.00025	.07250 ±.00025	.07750 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.250	MS9390-010	.022	MS9390-011	MS9390-012	MS9390-013	MS9390-014
.375						
.500						
.625						
.750						
.875						
1.000						
D	.09375 ±.00025		.09575 ±.00025	.09875 ±.00025	.10375 ±.00025	.10875 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.250	MS9390-080	.049	MS9390-081	MS9390-082	MS9390-083	MS9390-084
.375	MS9390-090	.073	MS9390-091	MS9390-092	MS9390-093	MS9390-094
.500						
.625						
.750						
.875						
1.000						
D	.12500 ±.00025		.12700 ±.00025	.13000 ±.00025	.13500 ±.00025	.14000 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.250	MS9390-160	.088	MS9390-161	MS9390-162	MS9390-163	MS9390-164
.375	MS9390-170	.132	MS9390-171	MS9390-172	MS9390-173	MS9390-174
.500	MS9390-180	.175	MS9390-181	MS9390-182	MS9390-183	MS9390-184
.625	MS9390-190	.219	MS9390-191	MS9390-192	MS9390-193	MS9390-194
.750	MS9390-200	.263	MS9390-201	MS9390-202	MS9390-203	MS9390-204
.875	MS9390-210	.307	MS9390-211	MS9390-212	MS9390-213	MS9390-214
1.000	MS9390-220	.381	MS9390-221	MS9390-222	MS9390-223	MS9390-224
D	.18750 ±.00025		.18950 ±.00025	.19250 ±.00025	.19750 ±.00025	.20250 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.250	MS9390-280	.196	MS9390-281	MS9390-282	MS9390-283	MS9390-284
.375	MS9390-290	.295	MS9390-291	MS9390-292	MS9390-293	MS9390-294
.500	MS9390-300	.383	MS9390-301	MS9390-302	MS9390-303	MS9390-304
.625	MS9390-310	.491	MS9390-311	MS9390-312	MS9390-313	MS9390-314
.750	MS9390-320	.589	MS9390-321	MS9390-322	MS9390-323	MS9390-324
.875	MS9390-330	.687	MS9390-331	MS9390-332	MS9390-333	MS9390-334
1.000	MS9390-340	.785	MS9390-341	MS9390-342	MS9390-343	MS9390-344

TABLE 1 - PART NUMBERS AND DIMENSIONS (CONTINUED)

	STANDARD SIZE	APPROX. MASS LB/100	OVERSIZE IDENTIFICATION - SEE NOTE 4			
			.002 OVERSIZE (2)	.005 OVERSIZE (5)	.010 OVERSIZE (10)	.015 OVERSIZE (15)
D	.25000 ±.00025		.25200 ±.00025	.25500 ±.00025	.26000 ±.00025	.26500 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.250	MS9390-400	.351	MS9390-401	MS9390-402	MS9390-403	MS9390-404
.375	MS9390-410	.526	MS9390-411	MS9390-412	MS9390-413	MS9390-414
.500	MS9390-420	.702	MS9390-421	MS9390-422	MS9390-423	MS9390-424
.625	MS9390-430	.877	MS9390-431	MS9390-432	MS9390-433	MS9390-434
.750	MS9390-440	1.053	MS9390-441	MS9390-442	MS9390-443	MS9390-444
.875	MS9390-450	1.228	MS9390-451	MS9390-452	MS9390-453	MS9390-454
1.000	MS9390-460	1.404	MS9390-461	MS9390-462	MS9390-463	MS9390-464
D	.31250 ±.00025		.31450 ±.00025	.31750 ±.00025	.32250 ±.00025	.32750 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.375	MS9390-530	.825	MS9390-531	MS9390-532	MS9390-533	MS9390-534
.500	MS9390-540	1.100	MS9390-541	MS9390-542	MS9390-543	MS9390-544
.625	MS9390-550	1.378	MS9390-551	MS9390-552	MS9390-553	MS9390-554
.750	MS9390-560	1.651	MS9390-561	MS9390-562	MS9390-563	MS9390-564
.875	MS9390-570	1.926	MS9390-571	MS9390-572	MS9390-573	MS9390-574
1.000	MS9390-580	2.201	MS9390-581	MS9390-582	MS9390-583	MS9390-584
1.125	MS9390-590	2.476	MS9390-591	MS9390-592	MS9390-593	MS9390-594
1.250	MS9390-600	2.751	MS9390-601	MS9390-602	MS9390-603	MS9390-604
D	.37500 ±.00025		.37700 ±.00025	.38000 ±.00025	.38500 ±.00025	.39000 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.375	MS9390-650	1.185	MS9390-651	MS9390-652	MS9390-653	MS9390-654
.500	MS9390-660	1.579	MS9390-661	MS9390-662	MS9390-663	MS9390-664
.625	MS9390-670	1.974	MS9390-671	MS9390-672	MS9390-673	MS9390-674
.750	MS9390-680	2.389	MS9390-681	MS9390-682	MS9390-683	MS9390-684
.875	MS9390-690	2.764	MS9390-691	MS9390-692	MS9390-693	MS9390-694
1.000	MS9390-700	3.159	MS9390-701	MS9390-702	MS9390-703	MS9390-704
1.125	MS9390-710	3.554	MS9390-711	MS9390-712	MS9390-713	MS9390-714
1.250	MS9390-720	3.948	MS9390-721	MS9390-722	MS9390-723	MS9390-724
1.500	MS9390-730	4.738	MS9390-731	MS9390-732	MS9390-733	MS9390-734
D	.43750 ±.00025		.43950 ±.00025	.44250 ±.00025	.44750 ±.00025	.45250 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.500	MS9390-780	2.185	MS9390-781	MS9390-782	MS9390-783	MS9390-784
.625	MS9390-790	2.503	MS9390-791	MS9390-792	MS9390-793	MS9390-794
.750	MS9390-800	3.232	MS9390-801	MS9390-802	MS9390-803	MS9390-804
.875	MS9390-810	3.771	MS9390-811	MS9390-812	MS9390-813	MS9390-814
1.000	MS9390-820	4.309	MS9390-821	MS9390-822	MS9390-823	MS9390-824
1.125	MS9390-830	4.848	MS9390-831	MS9390-832	MS9390-833	MS9390-834
1.250	MS9390-840	5.387	MS9390-841	MS9390-842	MS9390-843	MS9390-844
1.500	MS9390-850	6.464	MS9390-851	MS9390-852	MS9390-853	MS9390-854
1.750	MS9390-860	7.541	MS9390-861	MS9390-862	MS9390-863	MS9390-864

TABLE 1 - PART NUMBERS AND DIMENSIONS (CONTINUED)

	STANDARD SIZE	APPROX. MASS LB/100	OVERSIZE IDENTIFICATION - SEE NOTE 4			
			.002 OVERSIZE (2)	.005 OVERSIZE (5)	.010 OVERSIZE (10)	.015 OVERSIZE (15)
D	.50000 ±.00025		.50200 ±.00025	.50500 ±.00025	.51000 ±.00025	.51500 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.500	MS9390-900	2.808	MS9390-901	MS9390-902	MS9390-903	MS9390-904
.625	MS9390-910	3.510	MS9390-911	MS9390-912	MS9390-913	MS9390-914
.750	MS9390-920	4.212	MS9390-921	MS9390-922	MS9390-923	MS9390-924
.875	MS9390-930	4.914	MS9390-931	MS9390-932	MS9390-933	MS9390-934
1.000	MS9390-940	5.616	MS9390-941	MS9390-942	MS9390-943	MS9390-944
1.125	MS9390-950	6.318	MS9390-951	MS9390-952	MS9390-953	MS9390-954
1.250	MS9390-960	7.020	MS9390-961	MS9390-962	MS9390-963	MS9390-964
1.500	MS9390-970	8.423	MS9390-971	MS9390-972	MS9390-973	MS9390-974
1.750	MS9390-980	9.827	MS9390-981	MS9390-982	MS9390-983	MS9390-984
2.000	MS9390-990	11.231	MS9390-991	MS9390-992	MS9390-993	MS9390-994
D	.62500 ±.00025		.62700 ±.00025	.63000 ±.00025	.63500 ±.00025	.64000 ±.00025
LENGTH L	PART NUMBER		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
.625	MS9390-915	5.494	MS9390-916	MS9390-917	MS9390-918	MS9390-919
.750	MS9390-925	6.581	MS9390-926	MS9390-927	MS9390-928	MS9390-929
.875	MS9390-935	7.878	MS9390-936	MS9390-937	MS9390-938	MS9390-939
1.000	MS9390-945	8.774	MS9390-946	MS9390-947	MS9390-948	MS9390-949
1.125	MS9390-955	9.861	MS9390-956	MS9390-957	MS9390-958	MS9390-959
1.250	MS9390-965	10.968	MS9390-966	MS9390-967	MS9390-968	MS9390-969
1.500	MS9390-975	13.162	MS9390-976	MS9390-977	MS9390-978	MS9390-979
1.750	MS9390-985	15.355	MS9390-986	MS9390-987	MS9390-988	MS9390-989
2.000	MS9390-995	17.549	MS9390-996	MS9390-997	MS9390-998	MS9390-999

NOTES:

- MATERIAL: CORROSION AND HEAT RESISTANT STEEL PER AMS5732 (UNS S66286).
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
- IDENTIFICATION: MARK PART NUMBER AND MANUFACTURER'S IDENTIFICATION ON CONTAINER.
- OVERSIZE IDENTIFICATION:
FOR PIN SIZES LESS THAN .12500 DIAMETER. MARK OVERSIZE IDENTIFICATION ON THE CONTAINER.
FOR PIN SIZES .12500 DIAMETER AND LARGER. MARK OVERSIZE IDENTIFICATION ON THE END OF THE PIN PER AS478 CLASS A.
- BREAK EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
- DIMENSIONS IN INCHES.
- DO NOT USE UNASSIGNED PART NUMBERS.

 An SAE International Group	AEROSPACE STANDARD		SAE AS9390 SHEET 4 OF 5	REV. C
	PIN, STRAIGHT, HEADLESS, DOWEL - CRES, UNS S66286, STANDARD AND OVERSIZE			