

REV.
C

RATIONALE

CORRECT LOCATION OF G DIMENSION TO BE THE FULL WIDTH OF THE TAB (I.E., RESTORE TO PREVIOUS REVISION). UPDATE TO ASME Y14.5-2018. MINOR EDITORIAL UPDATES.

AS9581™

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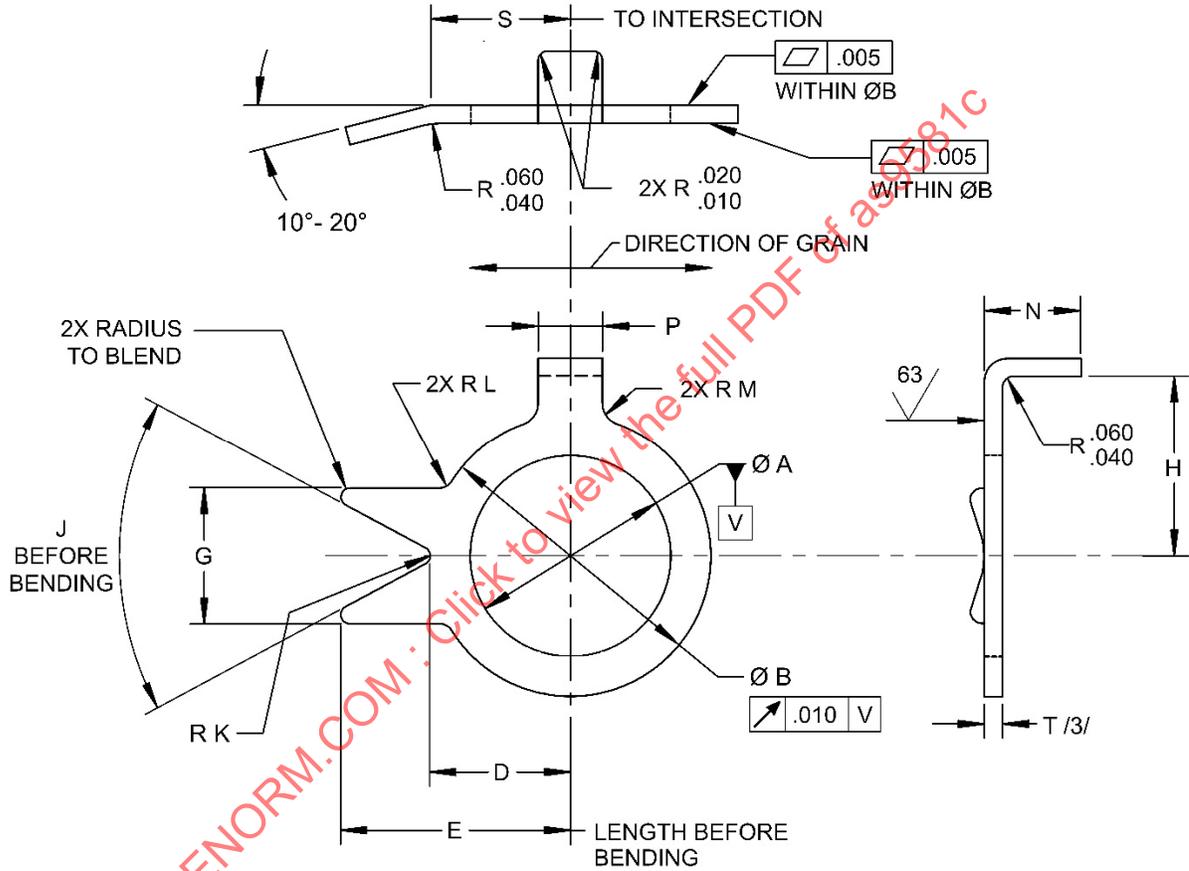
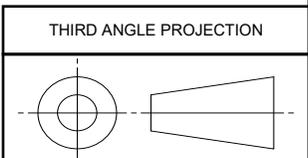


FIGURE 1 - WASHER

For more information on this standard, visit
<https://www.sae.org/standards/content/AS9581C>



CUSTODIAN: E-25		PROCUREMENT SPECIFICATION: NONE	
	AEROSPACE STANDARD		AS9581™ SHEET 1 OF 3
	WASHER, KEY - 90 DEG, LOCKING, CRES, UNS S32100		

ISSUED 1999-08 REAFFIRMED 2019-08 REVISED 2024-01

TABLE 1 - DIMENSIONS

PART NUMBER	NOM SIZE	A	B	D	E	G	H	J
MS9581-08	.1640	.170 - .175	.310 - .320	.160 - .165	.275 - .285	.175 - .185	.181 - .191	48° - 52°
MS9581-09	.1900	.195 - .200	.370 - .380	.190 - .195	.295 - .305	.200 - .210	.221 - .231	58° - 62°
MS9581-10	.2500	.255 - .260	.440 - .450	.220 - .225	.350 - .360	.250 - .260	.265 - .275	58° - 62°
MS9581-11	.3125	.320 - .325	.495 - .505	.250 - .255	.410 - .420	.280 - .290	.325 - .335	58° - 62°
MS9581-12	.3750	.390 - .395	.560 - .570	.280 - .285	.450 - .460	.320 - .330	.365 - .375	58° - 62°
MS9581-13	.4375	.450 - .455	.685 - .695	.345 - .350	.525 - .535	.390 - .400	.415 - .425	58° - 62°
MS9581-14	.5000	.515 - .520	.745 - .755	.375 - .380	.590 - .600	.425 - .435	.465 - .475	58° - 62°
MS9581-15	.5625	.575 - .580	.870 - .880	.440 - .445	.640 - .650	.500 - .510	.540 - .550	78° - 82°
MS9581-16	.6250	.640 - .645	.930 - .940	.470 - .475	.680 - .690	.530 - .540	.565 - .575	78° - 82°
MS9581-17	.7500	.765 - .770	1.055 - 1.065	.530 - .535	.730 - .740	.550 - .560	.665 - .675	88° - 92°
MS9581-18	.8750	.890 - .895	1.245 - 1.255	.625 - .630	.860 - .870	.600 - .610	.790 - .800	88° - 92°
MS9581-19	1.0000	1.015 - 1.020	1.430 - 1.440	.715 - .720	.950 - .960	.650 - .660	.865 - .875	88° - 92°

TABLE 1 - DIMENSIONS (CONTINUED)

PART NUMBER	K	L	M	N	P	S	T	APPROX MASS LB/100
MS9581-08	.005 - .025	.027 - .047	.027 - .047	.080 - .090	.080 - .085	.175 - .185	.019 - .025	.041
MS9581-09	.005 - .025	.027 - .047	.027 - .047	.095 - .105	.110 - .115	.205 - .215	.019 - .025	.065
MS9581-10	.015 - .035	.030 - .050	.030 - .050	.100 - .110	.110 - .115	.235 - .245	.028 - .036	.128
MS9581-11	.020 - .040	.030 - .050	.040 - .060	.100 - .110	.140 - .145	.275 - .285	.028 - .036	.160
MS9581-12	.020 - .040	.030 - .050	.040 - .060	.140 - .150	.140 - .145	.315 - .325	.028 - .036	.182
MS9581-13	.035 - .055	.030 - .050	.040 - .060	.150 - .160	.170 - .175	.375 - .385	.032 - .040	.246
MS9581-14	.040 - .060	.040 - .060	.040 - .060	.150 - .160	.200 - .205	.415 - .425	.032 - .040	.396
MS9581-15	.040 - .060	.040 - .060	.065 - .085	.150 - .160	.200 - .205	.475 - .485	.032 - .040	.532
MS9581-16	.040 - .060	.040 - .060	.065 - .085	.150 - .160	.200 - .205	.495 - .505	.032 - .040	.592
MS9581-17	.040 - .060	.050 - .070	.090 - .110	.150 - .160	.230 - .235	.565 - .575	.032 - .040	.709
MS9581-18	.040 - .060	.050 - .070	.090 - .110	.150 - .160	.260 - .265	.675 - .685	.032 - .040	.821
MS9581-19	.090 - .110	.050 - .070	.090 - .110	.150 - .160	.290 - .295	.775 - .785	.032 - .040	1.060

NOTES:

- MATERIAL: CORROSION RESISTANT STEEL AMS5510 (COMPOSITION SIMILAR TO UNS S32100).
- HEAT TREATMENT: FORMED WASHERS SHALL BE STRESS RELIEVED AT 1600 °F ± 25 °F FOR 30 MINUTES IN A PROTECTIVE ATMOSPHERE FOLLOWED BY AIR COOL.
- DIMENSION "T" SHALL BE OF UNIFORM THICKNESS WITHIN .002.
- REMOVE BURRS AND SHARP EDGES.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra.
- IDENTIFICATION: MARK PART NUMBER AND MANUFACTURER'S IDENTIFICATION ON CONTAINER.
- DIMENSIONING AND TOLERANCING: ASME Y14.5-2018.
- ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED.

	AEROSPACE STANDARD	AS9581™ SHEET 2 OF 3	REV. C
	WASHER, KEY - 90 DEG, LOCKING, CRES, UNS S32100		