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**REV.
B**

AS51997

FEDERAL SUPPLY CLASS
5365

RATIONALE

AS51997B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

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NOTICE

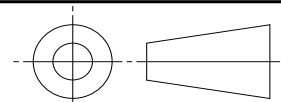
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THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: MIL-I-45910



AEROSPACE STANDARD

RING, LOCKED, SERRATED-
HIGH STRENGTH

AS51997
SHEET 1 OF 3

**REV.
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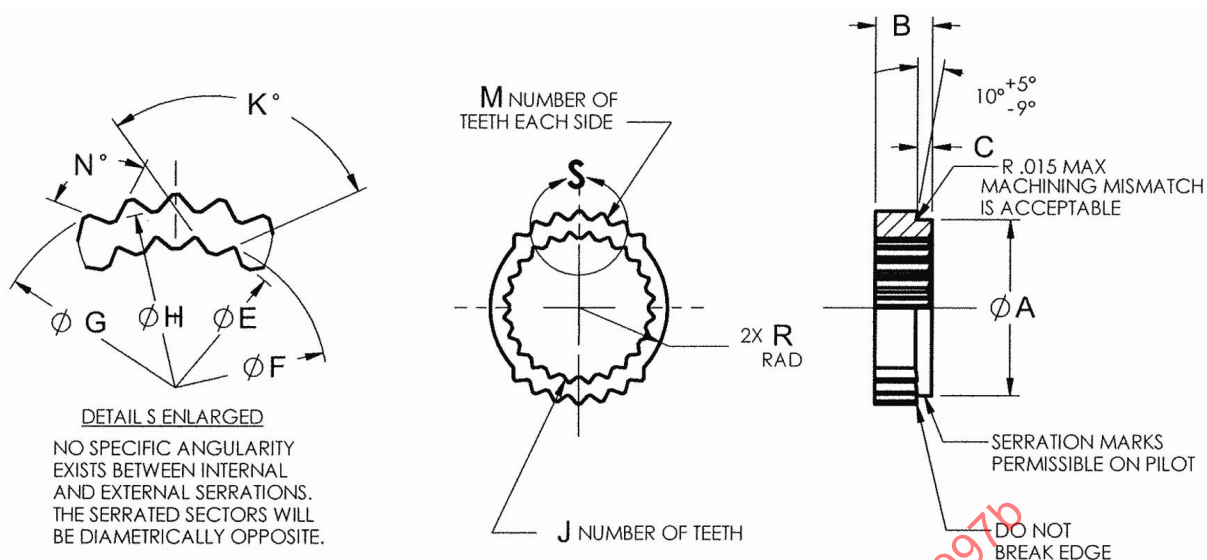


TABLE I. DIMENSIONS

DASH NUMBERS	ØA +.008 -.007	B +.010 -.005	C	ØE +.004 -.003	ØF	ØG +.005 -.004	ØH +.003 -.006	J	K° +1° -2°	M	N°	R RAD REF
102P	.305	.100	.044	.213	.252	.353	.310	13	102°	4	100°	.154
103P	.368	.110	.044	.266	.315	.416	.373	17	86°	5	98°	.186
104P	.430	.138	.044	.323	.364	.478	.435	20	102°	6	97°	.217
105P	.493	.157	.040	.390	.425	.541	.498	24	102°	7	96°	.248
106P	.606	.157	.040	.468	.505	.657	.611	26	102°	7	96°	.304
107P	.731	.161	.040	.574	.613	.782	.736	26	111°	8	95°	.366
108P	.856	.213	.040	.695	.740	.907	.861	30	111°	9	94°	.429
109P	.981	.213	.040	.794	.845	1.034	.986	30	111°	10	96°	.492

REQUIREMENTS:

- MATERIAL: STEEL, ALLOY, GRADE 4130 (UNS G41300) CONFORMING TO AMS 6370 OR GRADE 4140 (UNS G41400) CONFORMING TO AMS 6382 OR GRADE 8740 (UNS G87400) PER AMS 6322.
STEEL, CORROSION-RESISTANT, TYPE A286 (UNS S66286) PER AMS 5731, AMS 5732, AMS 5734, OR AMS 5737, HEAT TREATED AND AGED AS APPLICABLE.
- PROTECTIVE COATING OR TREATMENT: STEEL, ALLOY, SHALL BE CADMIUM PLATED CONFORMING TO AMS-QQ-P-416, TYPE II, CLASS 3.
STEEL, CORROSION-RESISTANT, SHALL BE CLEANED, DESCALED AND PASSIVATED IN ACCORDANCE WITH AMS-QQ-P-35.
- PROCUREMENT SPECIFICATION: MIL-I-45910.
- SURFACE ROUGHNESS: MACHINED SURFACES TO BE 125 MICROINCHES RA IN ACCORDANCE WITH ANSI/ASME B46.1, EXCEPT SERRATIONS.
- HARDNESS: ALLOY STEEL RINGS SHALL HAVE HARDNESS OF 36-45 HRC IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
CORROSION-RESISTANT STEEL RINGS SHALL HAVE A HARDNESS OF 269 HB MINIMUM IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
- FILLETS: FILLETS SHALL BE R .015 MAXIMUM.
- EDGES: UNLESS OTHERWISE SPECIFIED, EDGES BROKEN .003-.015 EXCEPT SERRATIONS.