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REV.
A

AS5309

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS5309A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

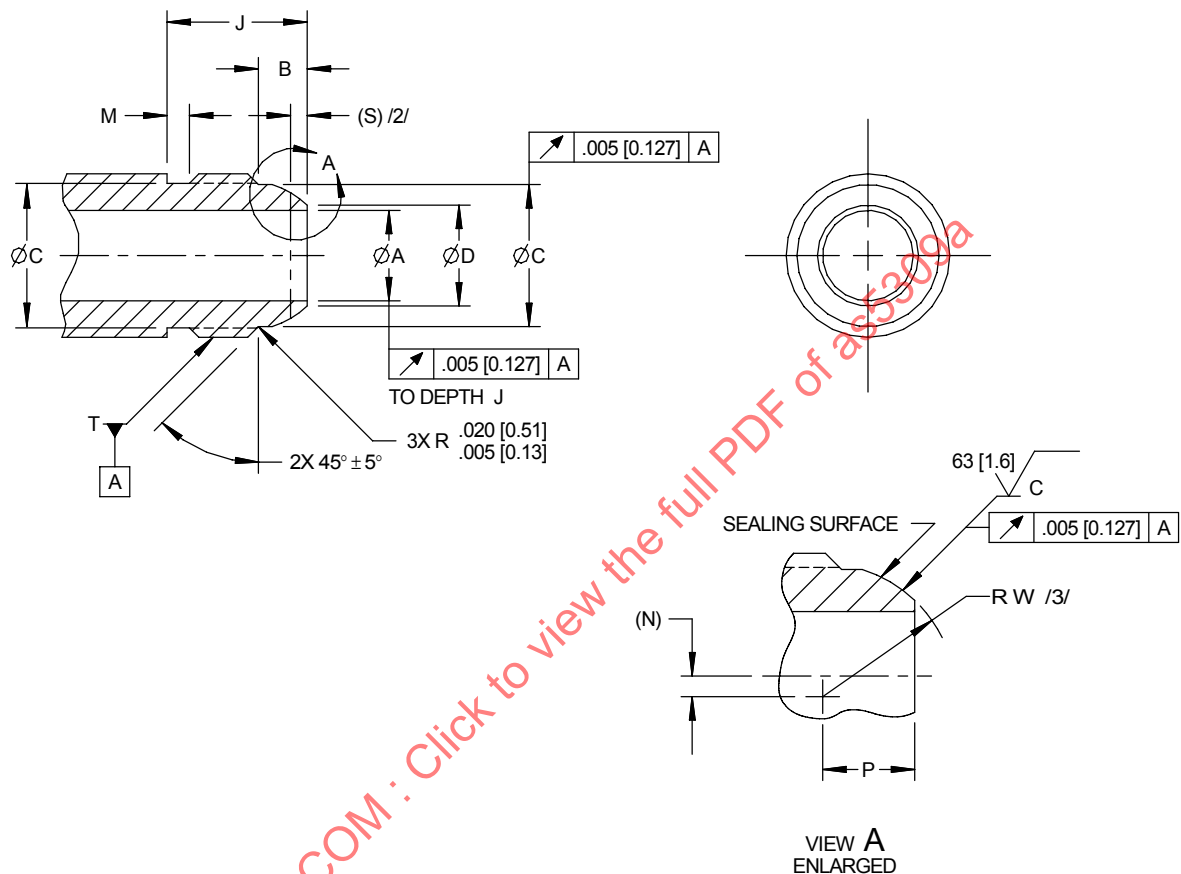
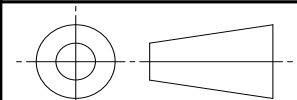


FIGURE 1 - FITTING END, STYLE G

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on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS5309A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

FITTING END, SPHERICAL,
37° FLARED TUBE CONNECTION
DESIGN STANDARD

AS5309
SHEET 1 OF 4

REV.
A

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ISSUED 1997-10 REVISED 2007-11 REAFFIRMED 2015-04

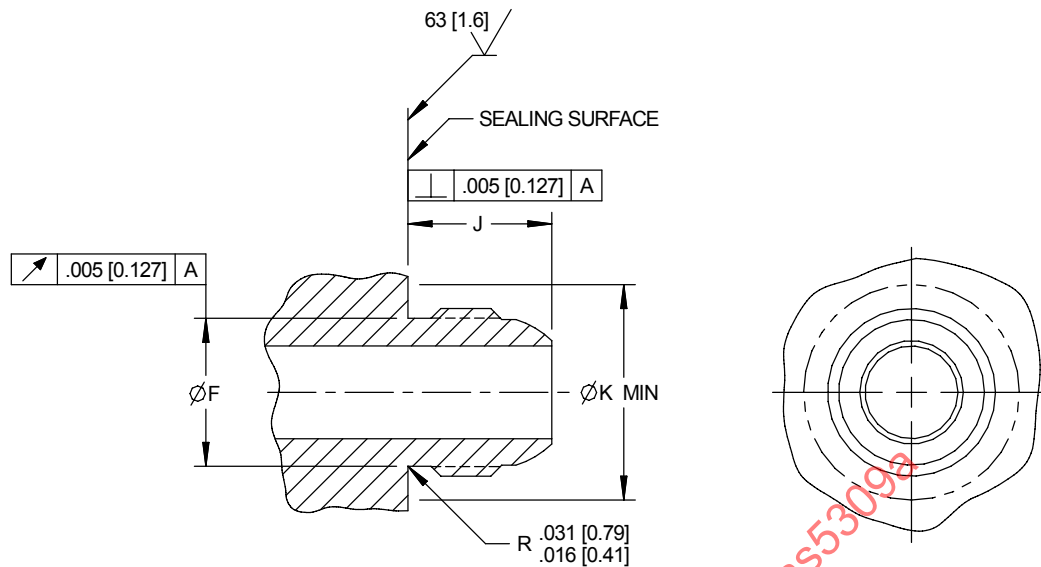


FIGURE 2 - FITTING END, STYLE E
SAME AS STYLE G EXCEPT AS SHOWN

TABLE 1A - DIMENSIONS A-D, INCH-POUND UNITS (IN)

BASIC NO. AS5309 /10/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER INCH AS8879	A		B +.015 -.000	C	D
03	.188	.3750-24 UNJF-3A	.104	.114	.174	.277	.129
04	.250	.4375-20 UNJF-3A	.168	.175	.189	.355	.190
05	.312	.5000-20 UNJF-3A	.230	.237	.189	.415	.255
06	.375	.5625-18 UNJF-3A	.293	.301	.193	.470	.320
08	.500	.7500-16 UNJF-3A	.387	.395	.247	.650	.425
10	.625	.8750-14 UNJF-3A	.480	.488	.261	.760	.540
12	.750	1.0625-12 UNJ-3A	.604	.614	.307	.930	.665
16	1.000	1.3125-12 UNJ-3A	.839	.851	.308	1.180	.915
20	1.250	1.6250-12 UNJ-3A	1.073	1.086	.356	1.495	1.145
24	1.500	1.8750-12 UNJ-3A	1.307	1.320	.369	1.745	1.380

TABLE 1B - DIMENSIONS F-W, INCH -POUND UNITS (IN)

BASIC NO. AS5309 /10/ SIZE CODE	F +.002 -.003	J ±.015	K	M +.015 -.000	N	P	S /2/	W
03	.312	.479	.595	.063	.160	.217	.075	.312
04	.364	.550	.658	.075	.126	.219	.067	.312
05	.426	.550	.720	.075	.096	.217	.064	.312
06	.481	.556	.782	.083	.060	.223	.072	.312
08	.660	.657	.970	.094	.130	.329	.092	.475
10	.773	.758	.993	.107	.074	.328	.089	.475
12	.945	.864	1.343	.125	.124	.436	.117	.632
16	1.195	.911	1.593	.125	.000	.436	.118	.632
20	1.507	.958	1.843	.125	.000	.559	.165	.800
24	1.756	1.083	2.089	.125	.000	.640	.155	.942

TABLE 1A - DIMENSIONS A-D, SI UNITS (MM)

BASIC NO. AS5309 /10/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879	A	B +.038 -0	C	D
03	4.78	.3750-24 UNJF-3A	2.642 - 2.896	4.42	7.036	3.277
04	6.35	.4375-20 UNJF-3A	4.267 - 4.445	4.80	9.017	4.826
05	7.92	.5000-20 UNJF-3A	5.842 - 6.020	4.80	10.541	6.477
06	9.53	.5625-18 UNJF-3A	7.442 - 7.645	4.90	11.938	8.128
08	12.70	.7500-16 UNJF-3A	9.830 - 10.033	6.27	16.510	10.795
10	15.88	.8750-14 UNJF-3A	12.192 - 12.395	6.63	19.304	13.716
12	19.05	1.0625-12 UNJ-3A	15.342 - 15.596	7.80	23.622	16.891
16	25.40	1.3125-12 UNJ-3A	21.311 - 21.615	7.82	29.972	23.241
20	31.75	1.6250-12 UNJ-3A	27.254 - 27.584	9.04	37.973	29.083
24	38.10	1.8750-12 UNJ-3A	33.198 - 33.528	9.37	44.323	35.052

TABLE 1B - DIMENSIONS F-W, SI UNITS (MM)

BASIC NO. AS5309 /10/ SIZE CODE	F +.0051 -0.076	J ±0.38	K	M +.038 -0	N	P	S /2/	W
03	7.925	12.17	15.11	1.60	4.06	5.512	1.91	7.925
04	9.246	13.97	16.71	1.91	3.20	5.563	1.70	7.925
05	10.820	13.97	18.29	1.91	2.44	5.512	1.63	7.925
06	12.217	14.12	19.86	2.11	1.52	5.664	1.83	7.925
08	16.764	16.69	24.64	2.39	3.30	8.357	2.34	12.065
10	19.634	19.25	27.76	2.72	1.88	8.331	2.26	12.065
12	24.003	21.95	34.11	3.18	3.15	11.074	2.97	16.053
16	30.353	23.14	40.46	3.18	.00	11.074	3.00	16.053
20	38.278	24.33	46.81	3.18	.00	14.199	4.19	20.320
24	44.602	27.51	53.06	3.18	.00	16.256	3.94	23.927



AEROSPACE STANDARD

FITTING END, SPHERICAL,
37° FLARED TUBE CONNECTION
DESIGN STANDARD

AS5309
SHEET 3 OF 4

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