

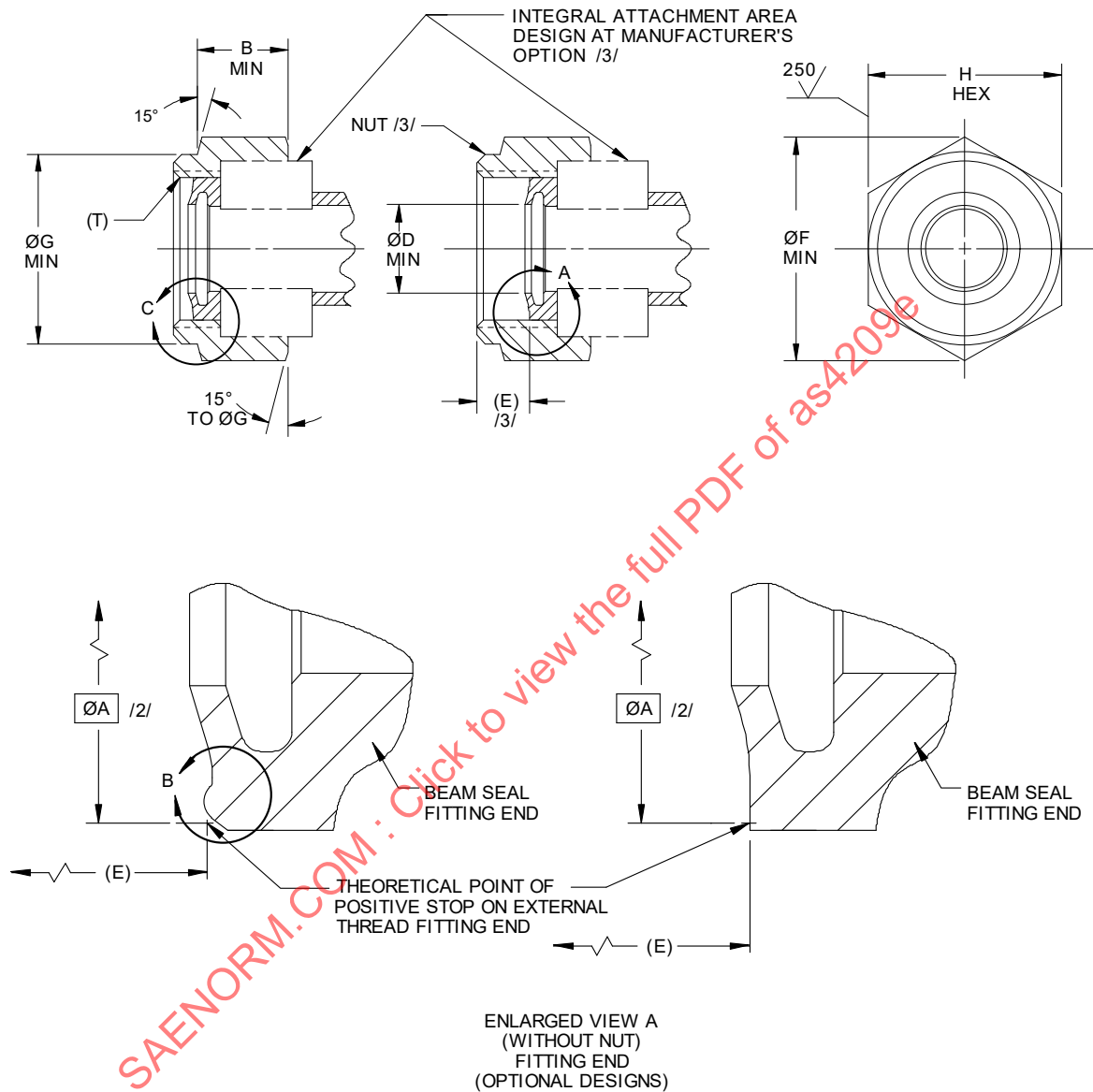
REV.
E

AS4209™

FEDERAL SUPPLY CLASS
4730

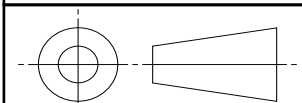
RATIONALE

REDRAW GRAPHICS FOR BETTER CLARITY. NOTE 3, DIM (0 -.031) CHANGED TO (.000 -.031).



For more information on this standard, visit
<https://www.sae.org/standards/content/AS4209E/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /1/



AEROSPACE STANDARD

FITTING END ASSEMBLY, INTERNAL THREAD,
RETAINED NUT, BEAM SEAL,
DESIGN STANDARD

AS4209™
SHEET 1 OF 3

REV.
E

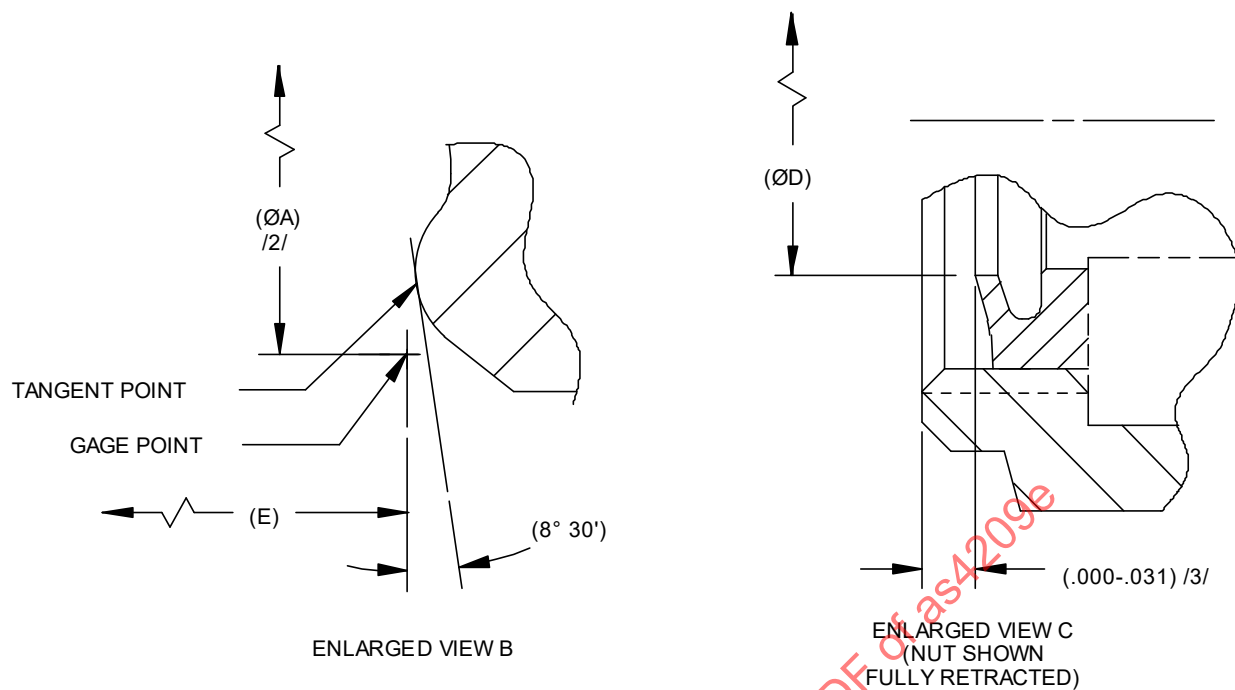


FIGURE 1 - FITTING END DESIGN WITH LIMITS OF NUT TRAVEL

TABLE 1 - DIMENSIONS

BASIC NO. AS4209 /11/ SIZE CODE	(NOMINAL TUBE SIZE)	T THREAD PER AS8879 CLASS 3B	A BASIC	B MIN	D MIN	(E)	F MIN	G MIN	H
03	.188	.3750-28 UNJS	.3260	.134	.164	.171	.568	.470	.490-.502
04	.250	.4375-24 UNJS	.3800	.143	.194	.206	.638	.532	.552-.565
05	.312	.5000-24 UNJS	.4430	.152	.242	.210	.709	.595	.615-.628
06	.375	.5625-20 UNJS	.4935	.161	.307	.233	.780	.658	.678-.691
08	.500	.7188-20 UNJS	.6500	.179	.408	.249	.993	.845	.865-.878
10	.625	.8438-18 UNJS	.7675	.197	.523	.307	1.120	.970	.990-1.003
12	.750	1.0000-16 UNJ	.9145	.215	.660	.343	1.260	1.093	1.113-1.128
14	.875	1.1250-16 UNJ	1.0390	.233	.780	.348	1.540	1.343	1.363-1.380
16	1.000	1.2500-14 UNJS	1.1530	.251	.874	.366	1.650	1.468	1.488-1.505
20	1.250	1.5781-14 UNJS	1.4810	.287	1.128	.369	2.063	1.843	1.863-1.880
24	1.500	1.8438-14 UNJS	1.7460	.323	1.337	.449	2.338	2.089	2.109-2.135

NOTES:

- /1/ THIS FITTING END IS DESIGNED FOR USE WITH BEAM SEAL FITTINGS PER AS85421 OR AS85720. THE DESIGN AND FORM OF THE BEAM IS AT THE MANUFACTURER'S OPTION BUT MUST MEET THE PERFORMANCE REQUIREMENTS OF AS85421 OR AS85720 WHEN MATED WITH AS4207 FITTING END OR EQUIVALENT FITTING END.
- /2/ THE "A" GAGE DIAMETER CORRESPONDS TO THE NOMINAL "D" DIAMETER OF THE AS4207 EXTERNAL THREAD FITTING END. DIAMETER "A" DEFINES THE POINT AT WHICH "E" LENGTH DIMENSIONS, SUCH AS FITTING END LEG LENGTHS AND HOSE ASSEMBLY LENGTHS, SHALL BE MEASURED. FOR A FITTING END WITH A CURVED SEALING SURFACE, SHOWN IN FIGURE 1 VIEW B, THE GAGE POINT AT "ØA" REFLECTS THE POINT TO WHICH THE (8°30') BASIC ANGLE IS PROJECTED AND INTERSECTS "ØA" TO ESTABLISH A GAGE POINT FOR MEASURING "E."

	AEROSPACE STANDARD		AS4209™ SHEET 2 OF 3	REV. E
	FITTING END ASSEMBLY, INTERNAL THREAD, RETAINED NUT, BEAM SEAL, DESIGN STANDARD			