

REV.
C

AS85421™/2

FEDERAL SUPPLY CLASS
4730

RATIONALE

UPDATE SOLID FILM LUBRICANT NOTE AND ALIGN BOTH MALE BEAM SEAL FITTING STANDARDS WITH THE SAME SOLID FILM LUBRICANT REQUIREMENTS.

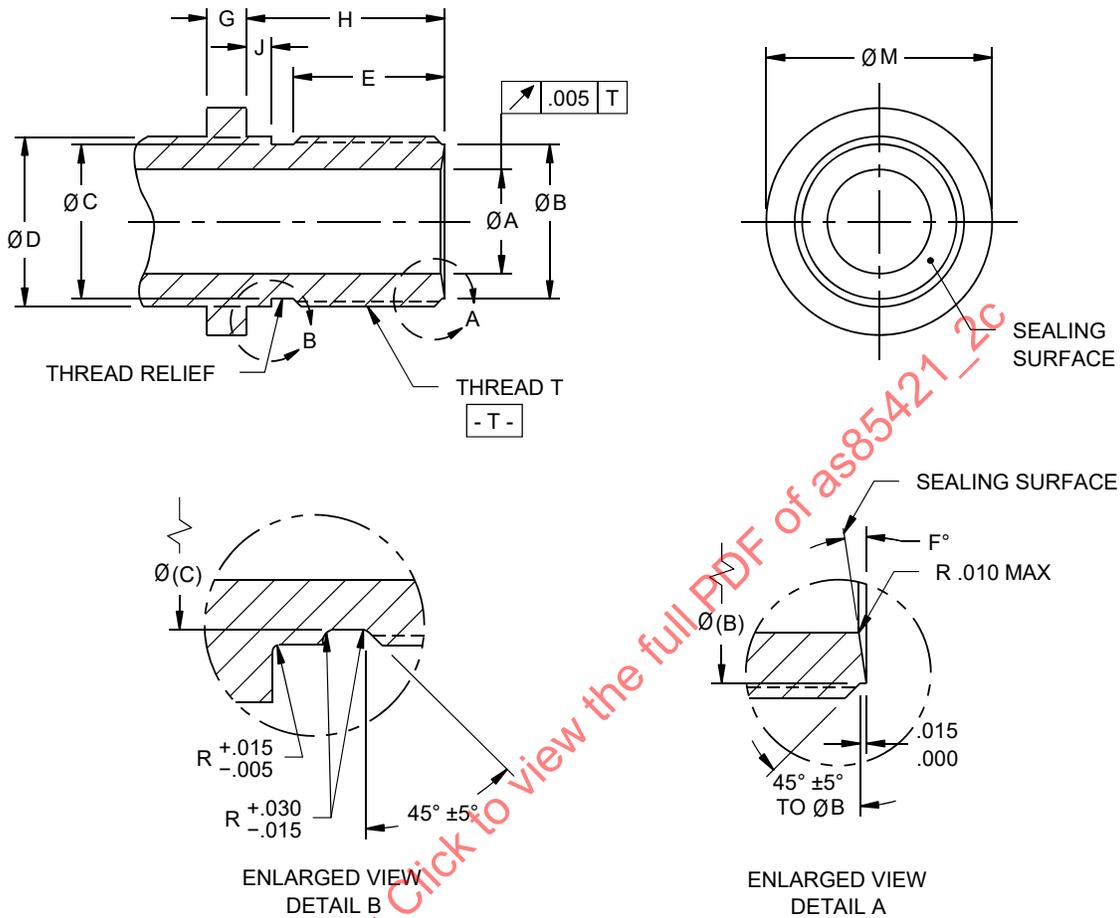
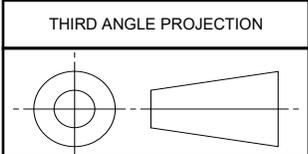


FIGURE 1 - FITTING END, BULKHEAD, DESIGN STANDARD, STYLE 1

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85421/2C/>



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

FITTING END,
STANDARD DIMENSIONS FOR,
BULKHEAD, DYNAMIC BEAM SEAL, MALE

AS85421™/2
SHEET 1 OF 3

REV.
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ISSUED 2002-02 REAFFIRMED 2007-10 REVISED 2022-05

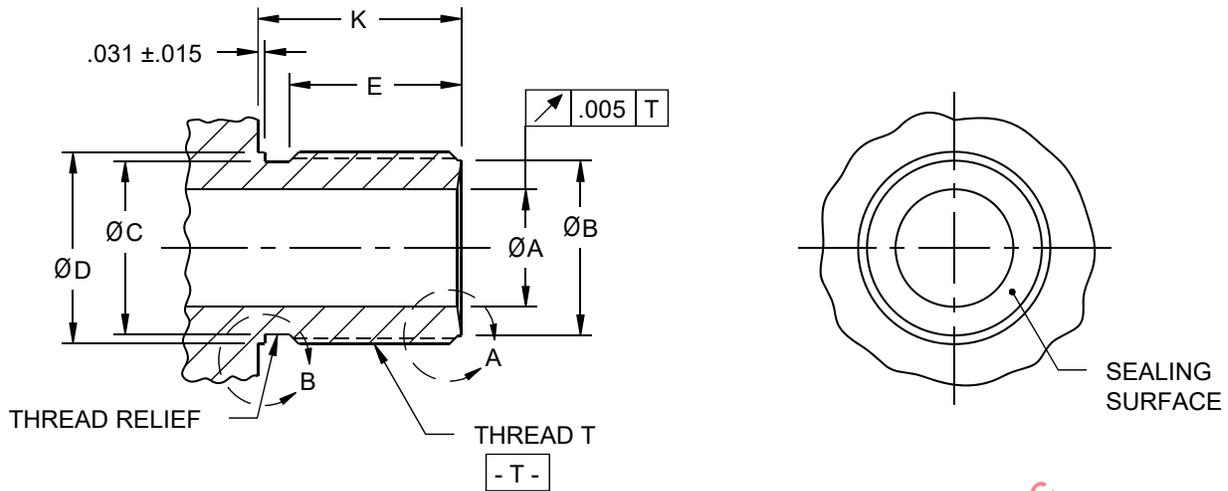


FIGURE 2 - FITTING END, BULKHEAD, DESIGN STANDARD, STYLE 2

TABLE 1 - DIMENSIONS

DASH (NOMINAL SIZE /12/)	TUBE SIZE)	T THREAD PER AS8879 CLASS 3A	A		B		C ±.005		D		E ±.015		F +.5° -0° (G)		H ±.015		J ±.016		K ±.015		M		
03	.188	.3750-28 UNJS	.154-	.164	.323-	.329	.318	.369-	.375	.501	3°00'	.137	.649	.094	.568	.621-	.628						
04	.250	.4375-24 UNJS	.184-	.194	.377-	.383	.373	.431-	.438	.583	8°30'	.147	.743	.094	.680	.684-	.691						
05	.312	.5000-24 UNJS	.232-	.242	.440-	.446	.436	.493-	.500	.583	8°30'	.150	.743	.094	.680	.746-	.753						
06	.375	.5625-20 UNJS	.297-	.307	.490-	.497	.488	.555-	.563	.603	8°30'	.173	.782	.094	.719	.809-	.816						
08	.500	.7188-20 UNJS	.398-	.408	.646-	.654	.644	.711-	.719	.629	8°30'	.186	.849	.125	.755	.996-	1.003						
10	.625	.8438-18 UNJS	.512-	.523	.763-	.772	.762	.835-	.844	.755	8°30'	.196	.988	.125	.894	1.121-	1.128						
12	.750	1.0000-16 UNJ	.649-	.660	.910-	.919	.910	.991-	1.000	.833	8°30'	.221	1.084	.125	.990	1.371-	1.378						
14	.875	1.1250-16 UNJ	.769-	.780	1.034-	1.044	1.035	1.116-	1.125	.885	8°30'	.221	1.136	.125	1.042	1.609-	1.641						
16	1.000	1.2500-14 UNJS	.862-	.874	1.148-	1.158	1.149	1.240-	1.250	.925	8°30'	.223	1.176	.125	1.082	1.609-	1.641						
20	1.250	1.5781-14 UNJS	1.115-	1.128	1.476-	1.486	1.477	1.568-	1.578	.919	8°30'	.223	1.170	.125	1.076	1.859-	1.891						
24	1.500	1.8438-14 UNJS	1.324-	1.337	1.741-	1.751	1.742	1.834-	1.844	1.089	8°30'	.223	1.340	.125	1.246	2.105-	2.145						

NOTES:

- DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.010; ANGLES ±.5°.
- REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
- ALL MACHINED SURFACES SHALL BE SMOOTH TO 125 MICRONS Ra PER ASME B46.1, EXCEPT AS NOTED HEREIN.
- SEALING SURFACE SHALL BE FREE FROM LONGITUDINAL AND SPIRAL TOOL MARKS AND SHALL BE SMOOTH TO 45 MICRONS Ra PER ASME B46.1.
- SEALING SURFACE SHALL BE COATED WITH SOLID FILM LUBRICANT PER AS5272 TYPE I, OR TYPE II, FOR -65 TO 275 °F, AND AS1701 TYPE IV FOR -65 TO 630 °F UNLESS OTHERWISE STATED ON PART STANDARD. OVERSPRAY IN BORE IS NOT PERMITTED.
- DIMENSIONS A, B, C, D, AND T (PITCH DIA) SHALL BE CONCENTRIC TO EACH OTHER WITH F° ANGLE, MEASURED AND CALCULATED AS AN INCLUDED ANGLE, WITHIN .005 FIM.

	AEROSPACE STANDARD	AS85421™/2 SHEET 2 OF 3	REV. C
	FITTING END, STANDARD DIMENSIONS FOR, BULKHEAD, DYNAMIC BEAM SEAL, MALE		