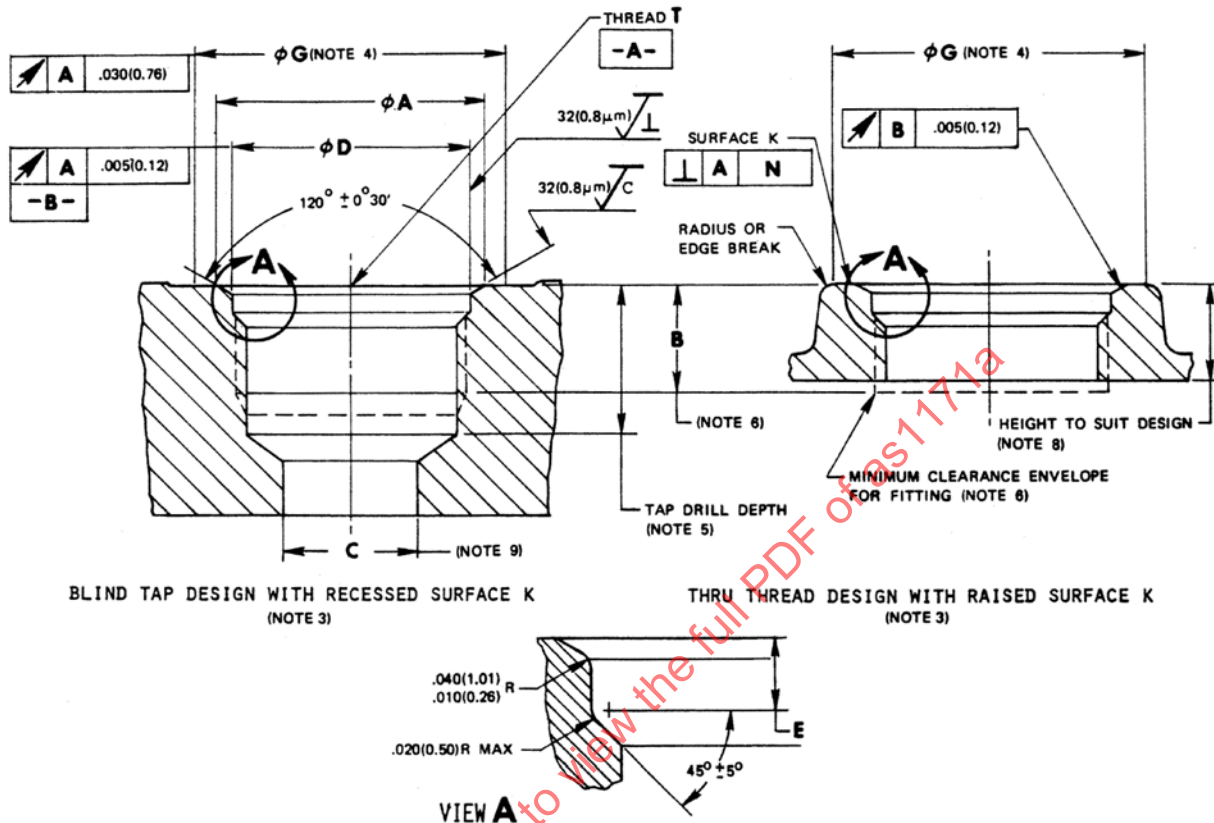


RATIONALE

AS1171A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.



1. FOR USE WITH FITTING ENDS PER AS 930 WHEN TAP DEPTHS OF MS33649 ARE CONSIDERED EXCESSIVE FOR INTENDED DESIGN.
2. SURFACE TEXTURE: ANSI B46.1-1962. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES (3.2 MICROMETRES).
3. UNLESS OTHERWISE SPECIFIED ON THE FIELD OF THE DRAWING OR IN NOTE 4, THE DIMENSIONS SHOWN FOR THE BLIND TAP DESIGN ALSO APPLY TO THE THRU THREAD DESIGN, AND VICE VERSA. BOTH DESIGNS MAY BE MACHINED WITH EITHER A RECESSED OR RAISED SURFACE K, AS APPLICABLE.
4. MINIMUM FLAT BOSS FACE. CLEARANCE PROVISIONS FOR FITTING, WRENCH, FITTING INSTALLATION AND TOOL FILLET RADII MUST BE ADDED AS REQUIRED. G MINIMUM DIAMETER MAY BE REDUCED BY .040 (1.01) WHEN IT DEFINES THE LIMIT OF A RAISED SURFACE AND STRENGTH REQUIREMENTS PERMIT.
5. TAP DRILL DEPTH SHALL BE SUFFICIENT TO PROVIDE THREAD RUNOUT.
6. B MINIMUM IS THE FULL THREAD DEPTH REQUIREMENT FOR THE BLIND TAP DESIGN AND PROVIDES MINIMUM CLEARANCE ENVELOPE FOR THE AS 930 FITTING END IN THRU THREAD DESIGN. ADDITIONAL CLEARANCE SHALL BE PROVIDED IN THRU THREAD DESIGN WHEN NEEDED TO PREVENT CHOKED FLOW.
7. DIMENSIONING AND TOLERANCING: ANSI Y14.5-1973.
8. THRU THREAD DESIGN SHALL HAVE SUFFICIENT THREADS TO MEET STRENGTH REQUIREMENTS OF MATERIAL USED.
9. C IS THE MINIMUM DIAMETER FOR UNRESTRICTED FLUID FLOW. HOLE MAY BE ANY SIZE OR SHAPE PROVIDED CLEARANCE IS MAINTAINED TO B DEPTH FOR FITTING.
10. REMOVE ALL BURRS AND SLIVERS AND BREAK SHARP EDGES.
11. DIMENSIONS IN INCHES (MILLIMETRES). METRIC CONVERSIONS ARE INTERNATIONAL SYSTEM UNITS (SI).
12. THIS IS A DESIGN STANDARD, NOT TO BE USED AS A PART NUMBER.

CUSTODIAN: E-25

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

BOSS-FLUID CONNECTION, INTERNAL
STRAIGHT THREAD, SHALLOW TAP

SAE AS1171
SHEET 1 OF 2

REV. A