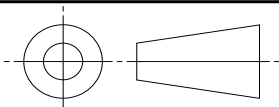


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REV. F	FEDERAL SUPPLY CLASS	
	RATIONALE THIS NONCURRENT STANDARD HAS BEEN STABILIZED.	
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CUSTODIAN: E-25		
SAE Aerospace An SAE International Group AEROSPACE STANDARD PROPELLER SHAFT ENDS - SINGLE ROTATION SAE AS41 REV. F		

ISSUED 1941-11 REVISED 1957-11 NONCURRENT 1973-08 REAFFIRMED NONCURRENT 2006-05 STABILIZED 2013-01

SHAFT ROTATION-EITHER DIRECTION
(SAME REQUIREMENTS APPLY)

APPLIES ONLY WHEN C DIA
IS LESS THAN G DIA

INCOMPLETE THREAD MUST NOT
GO BEYOND THIS SHOULDER

THREAD T NS
PITCH DIA S
SEE ALSO FIG. 2

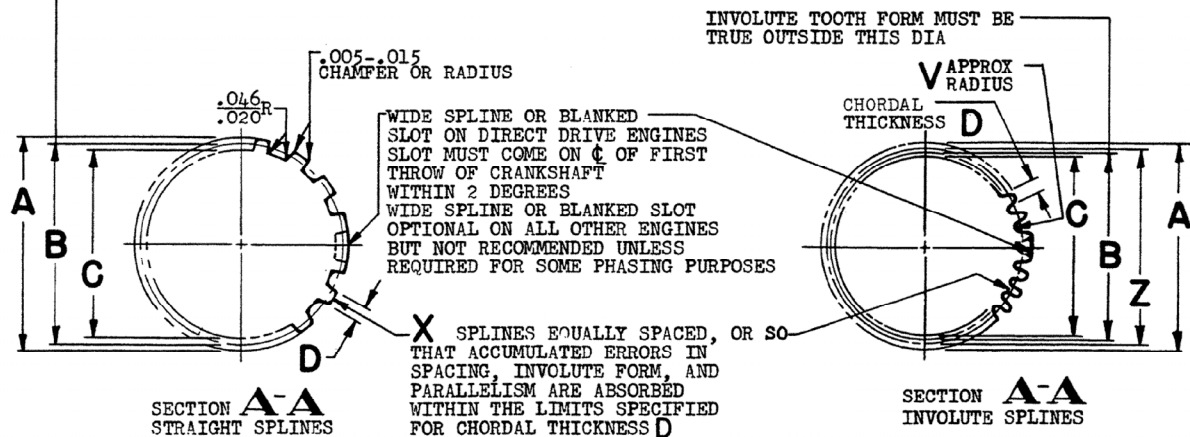
DRILL W THRU 8 HOLES
EQUALLY SPACED AND
LOCATED WITHIN .010 OF
TRUE POSITION

CENTER AND AMOUNT
OF CHAMFER OPTIONAL
WITH MFR

CHAMFER 45° X .062

TAPER NOTE:
SURFACES AT DIA G AND H
NOT TO TAPER MORE THAN
.0005 PER INCH OF LENGTH

POINT OF TANGENCY(RADIUS AND SIDE OF
SPLINE) MUST BE ON OR INSIDE THIS DIA



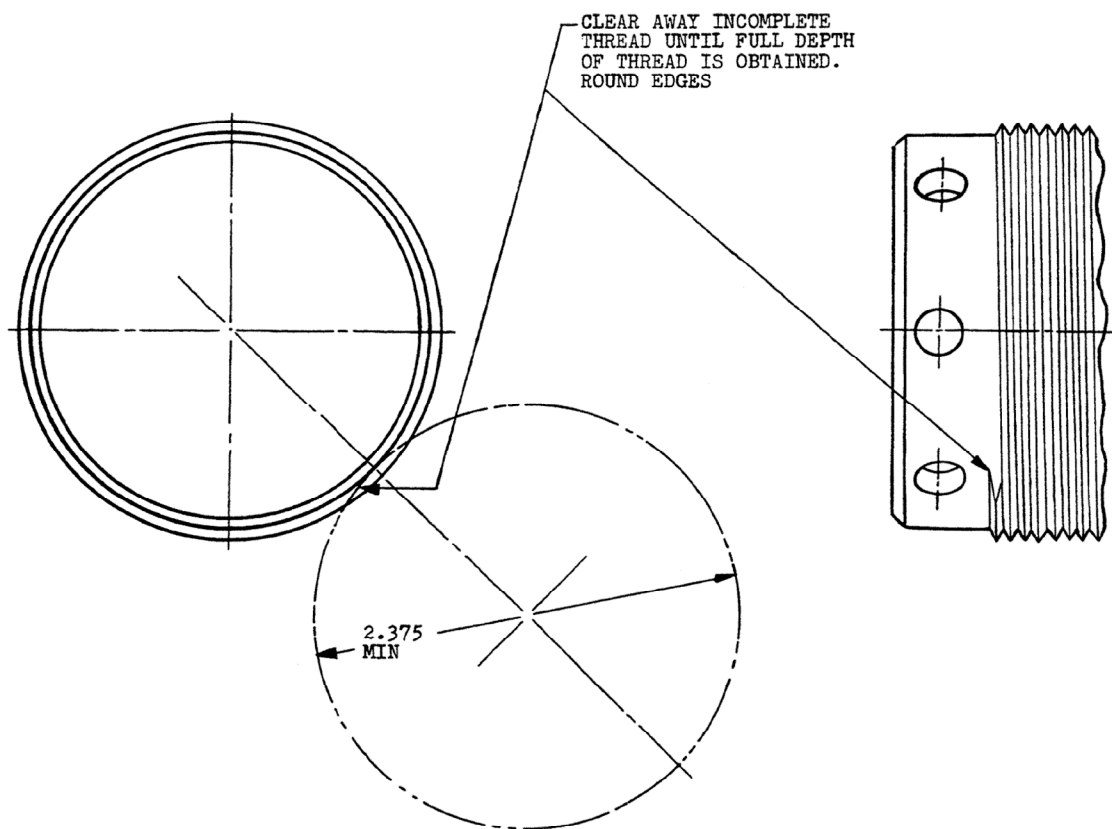
CONCENTRICITY:

WITH SHAFT MOUNTED ON DIA G AND REAR BEARING SURFACE,
DIA H, OTHER BEARING SURFACES AND DIA A ON STRAIGHT
SPLINES SHALL BE CONCENTRIC WITHIN .001 FIR., THREAD T -PITCH
DIA S SHALL BE CONCENTRIC WITHIN .005 FIR., AND DIA Z ON
INVOLUTE SPLINES SHALL BE CONCENTRIC WITHIN .002 FIR.
ANGULAR POSITION OF SPLINES MAY VARY FREELY WITH RESPECT
TO HOLES W
BREAK EDGES .016

SHAFT SPLINE DATA:

X NUMBER OF TEETH
Y DIAMETRAL PITCH
Z PITCH DIA (THEO)
30° PRESSURE ANGLE

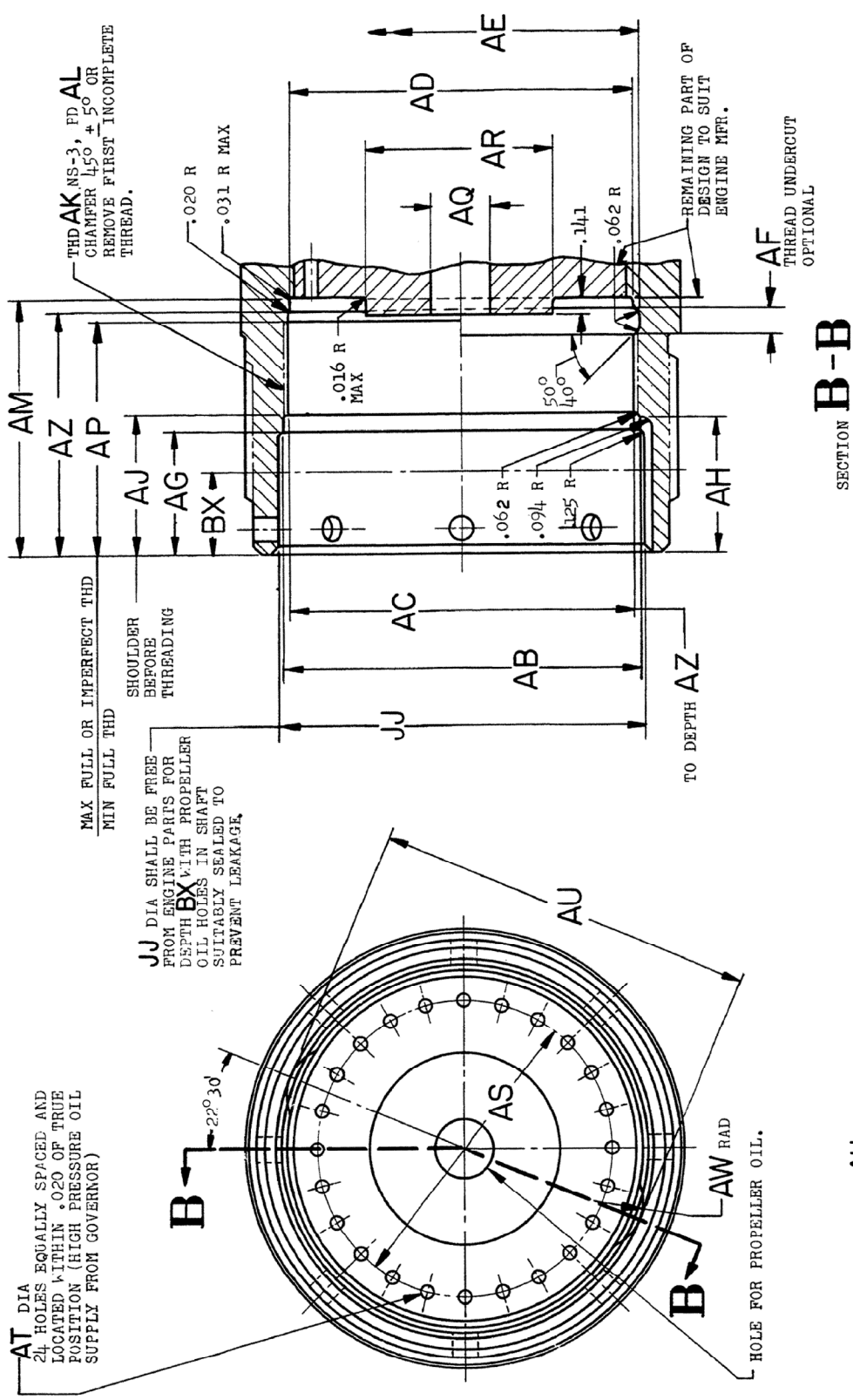
DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED
TOLERANCES
THREE PLACE DECIMALS + .010
- .005
ANGLES 2°



BREAK EDGES .016

FIG.2

DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED
TOLERANCES
THREE PLACE DECIMALS $\pm .010$
ANGLES $\pm 2^\circ$



SLCTS SHOWN BY DIMENSION AU OPTIONAL.

CONCENTRICITY: DIA AD, AR, AND AL CONCENTRIC WITH DIA G (ON FIG. 1) WITHIN .005 FIR.

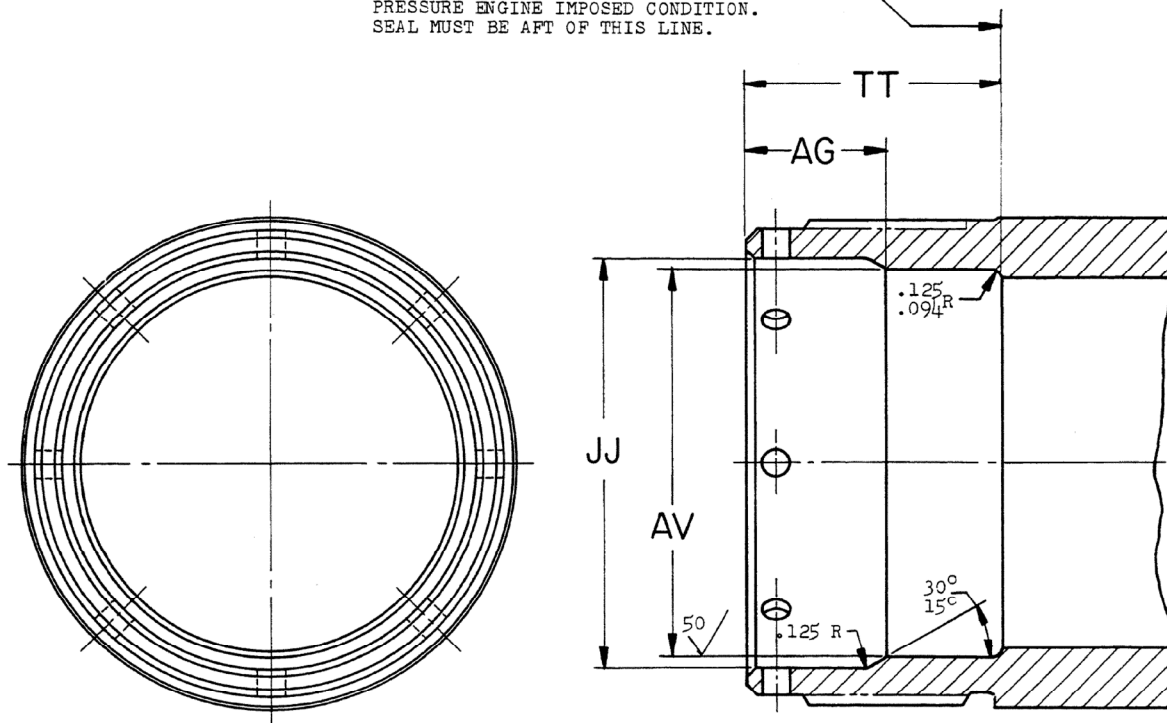
WHEN OIL TRANSFER PLUG IS NOT PROVIDED, ENGINE MFR. SHALL PROVIDE PLUG WITH FRONT FACE AT DIM. AM OR BETWEEN BX AND AM TO PREVENT LEAKAGE IN EITHER DIRECTION. MAX EXTERNAL PRESSURE 12 INCH HEAD OF SAE NO. 10 OIL; MAX INTERNAL PRESSURE ENGINE IMPOSED CONDITION.

FIGURE SHOWS INTERNAL FEATURES OF SHAFT PREFERRED FOR RECIPROCATING ENGINES (SEE ALSO FIG. 4).

FIG. 3

DIMENSIONS IN INCHES.
UNLESS OTHERWISE SPECIFIED:
BREAK SHARP EDGES .003 - .015
TOLERANCES;
THREE PLACE DECIMALS ± .010
ANGLES

ENGINE MFR SHALL SEAL SHAFT TO
PREVENT LEAKAGE IN EITHER DIRECTION.
MAX EXTERNAL PRESSURE 12 INCH HEAD
OF SAE NO. 10 OIL. MAX INTERNAL
PRESSURE ENGINE IMPOSED CONDITION.
SEAL MUST BE AFT OF THIS LINE.



CONCENTRICITY: DIA AV CONCENTRIC WITH DIA G (ON FIG. 1) WITHIN .005 FIR.

FINISH: FOR INTERPRETATION OF SURFACE ROUGHNESS SYMBOL $\sqrt{\quad}$. SEE AS 291.

INTERNAL DETAILS FOR CONFIGURATION WITHOUT OIL TRANSFER PROVISIONS (SEE ALSO FIG. 3).

FIG. 4

DIMENSIONS IN INCHES
UNLESS OTHERWISE SPECIFIED:
BREAK SHARP EDGES .003 - .015
TOLERANCES;
THREE PLACE DECIMALS $\pm .010$

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