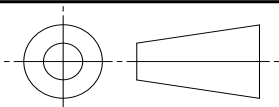


SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV. D	SAE ARP375			FEDERAL SUPPLY CLASS
	RATIONALE THIS NONCURRENT STANDARD HAS BEEN STABILIZED. STABILIZED NOTICE THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE E-25 GENERAL STANDARDS FOR AEROSPACE AND PROPULSION SYSTEMS AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.			
 AEROSPACE RECOMMENDED PRACTICE PROPELLER SHAFT ENDS, DUAL ROTATION (PROPELLER SUPPLIED BEARING)				
CUSTODIAN: E-25		SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/ARP375D THIRD ANGLE PROJECTION 		
ISSUED 1948-11 REVISED 1954-12 NONCURRENT 1973-08 REAFFIRMED NONCURRENT 2006-07 STABILIZED 2013-02				

AEROSPACE RECOMMENDED PRACTICE

PROPELLER SHAFT ENDS, DUAL ROTATION
(PROPELLER SUPPLIED BEARING)

SAE ARP375
SHEET 1 OF 5

REV.
D

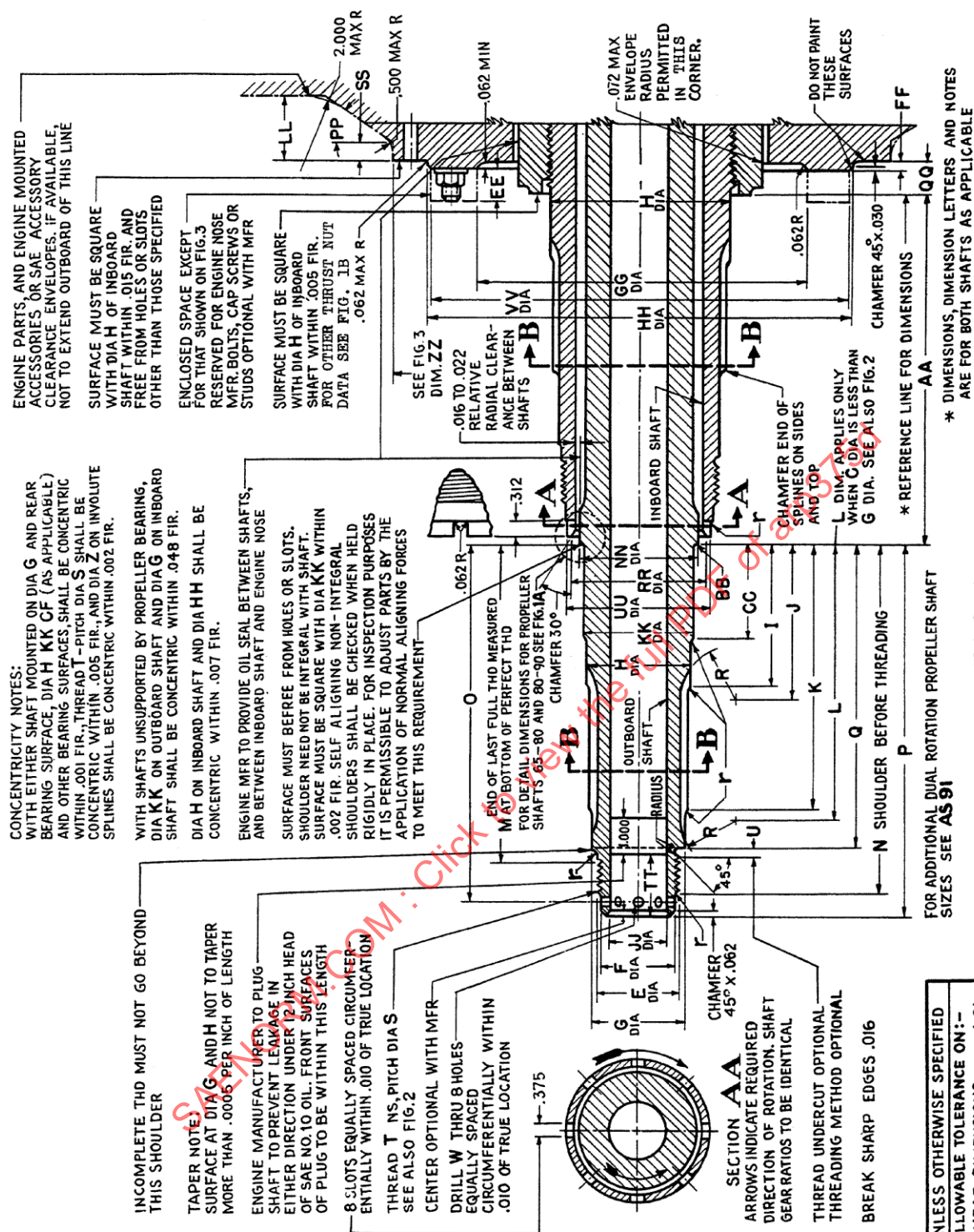


FIG. 1

LET	TOLERANCE		41 — 60		51 — 70		65 — 80		80 — 90	
	OUT-BOARD SHAFT	IN-BOARD SHAFT	INVOLUTE SPLINES	INVOLUTE SPLINES	INVOLUTE SPLINES	INVOLUTE SPLINES	INVOLUTE SPLINES	INVOLUTE SPLINES	INVOLUTE SPLINES	INVOLUTE SPLINES
A	+0.000	-.005	3.083	4.680	3.750	5.539	5.250	6.411	6.411	7.554
B	MAX.		2.917	4.436	3.583	5.294	5.000	6.151	6.151	7.294
C	+0.000	-.020	2.850	—	3.517	—	4.900	—	—	—
D	+0.010	-.020	—	4.321	—	5.179	—	6.036	6.036	7.179
E	+0.0000	-.0030	.1299	.2233	.1299	.2233	.1953	.2233	.2233	.2234
F	+0.000	-.004	2.807	4.245	3.432	5.120	4.870	5.995	5.995	7.120
G	+0.000	-.005	2.688	4.062	3.312	4.938	4.688	5.812	5.812	6.938
H	+0.000	-.002	2.812	4.296	3.500	5.156	4.875	6.011	6.011	7.156
I	+0.000	-.002	3.125	4.687	3.812	5.562	5.281	6.426	6.426	7.570
J	±.020	±.025	4.438	1.812	7.375	1.812	11.250	3.250	15.125	3.312
K	±.030	±.040	4.938	2.312	7.875	2.312	11.750	3.750	15.625	3.812
L	±.020	—	8.250	5.375	11.188	5.375	16.125	7.400	20.750	8.000
M	±.010	±.010	—	—	11.312	—	—	—	—	—
N	+0.000*	+0.010*	9.475	8.360	12.412	8.360	18.297	10.360	23.735	11.610
O	+0.010	-.030	10.641	9.735	13.578	9.735	19.672	11.610	25.110	13.110
P	±.015	—	10.938	—	13.812	—	20.062	—	25.562	—
Q	±.020	—	11.312	10.625	14.250	10.625	20.312	12.500	25.812	14.062
R	±.010	±.020	9.375	8.250	12.312	8.250	18.188	10.250	23.625	11.500
S	MAX		1.530	2.030	1.530	2.030	2.030	2.030	2.030	3.030
	MIN		1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125
r	+0.030	-.000	.062	.062	.062	.062	.062	.062	.062	.062
S	+0.0000	-.0030	2.7560	—	3.3810	—	—	—	—	—
	+0.0000	-.0050	—	4.1668	—	5.0418	4.7918	5.9168	5.9168	—
	+0.0000	-.0080	—	—	—	—	—	—	—	7.0418
T	—	—	2.8125-12	4.250-8	3.4375-12	5.125-8	4.875-8	6.000-8	6.000-8	7.125-8
U	±.030	—	.170	.250	.170	.250	.250	.250	.250	.250
V	APPROX	—	.035	.068	.035	.068	.060	.068	.068	.068
W	±.0100	—	.2656	—	.2656	—	.2656	—	.2656	—
X	—	—	36	32	44	38	41	44	44	52
Y	—	—	12/24	7/16	12/24	7/16	8/16	7/16	7/16	7/16
Z	THEO	—	3.0000	4.5714	3.6667	5.4286	5.1250	6.2857	6.2857	7.4286
AA	±.040	—	10.688	—	10.688	—	16.062	—	17.625	—
BB	MAX	—	.094	—	.094	—	.094	—	.094	—
CB	±.020	—	—	—	—	—	7.875	—	8.875	—
CC	±.020	—	2.375	—	2.375	—	3.875	—	4.875	—
CF	+0.0000	—	—	—	—	—	5.3149 35MM BRG	—	6.4567 164MM BRG	—
EE	MAX	—	.750	—	.750	—	.750	—	1.000	—
FF	±.010	—	.312	—	.312	—	.312	—	.312	—
GG	MIN	—	7.750	—	8.750	—	9.625	—	11.375	—
HH	±.001	—	10.123	—	11.123	—	12.625	—	14.373	—
JJ	+0.005	—	2.188	—	2.812	—	4.125	—	5.156	—
KK	+0.0000	—	3.1498 (80 MM BRG)	—	3.8191 (97MM BRG)	—	5.3543 36MM BRG	—	6.4960 165MM BRG	—
LL	MIN	—	2.062 **	—	2.062 **	—	4.000	—	4.000	—
MM	***	—	***	—	***	—	***	—	***	—
NN	+0.000	—	3.604	—	4.354	—	5.812	—	6.938	—
PP	MIN	—	35° **	—	35° **	—	45°	—	45°	—
QQ	±.035	—	.938	—	.938	—	.938	—	.938	—
RR	—	±.010	—	3.852	—	4.602	—	5.688	—	6.750
SS	MIN	—	.500	—	.500	—	.500	—	.500	—
TT	±.030	—	3.000	—	3.000	—	2.000	—	2.000	—
UU	—	+0.010	—	4.000	—	4.812	—	5.781	—	6.875
VV	MAX	—	10.102	—	11.072	—	12.574	—	14.250	—

*** SEE FIG. 1B, PAGE 2A

INBOARD AXIAL DIMENSIONS ARE FROM THRUST NUT

M DIM. MAX LIMIT GIVES MIN FULL THREAD

* MINUS VALUE DEPENDS ON METHOD OF THREADING AND THD RUNOUT RELATION TO SHOULDER Q

TO OBTAIN DIM. FOR FULL NUMBER OF PITCHES, WHEN DESIRED, DEDUCT BASIC M FROM BASIC N

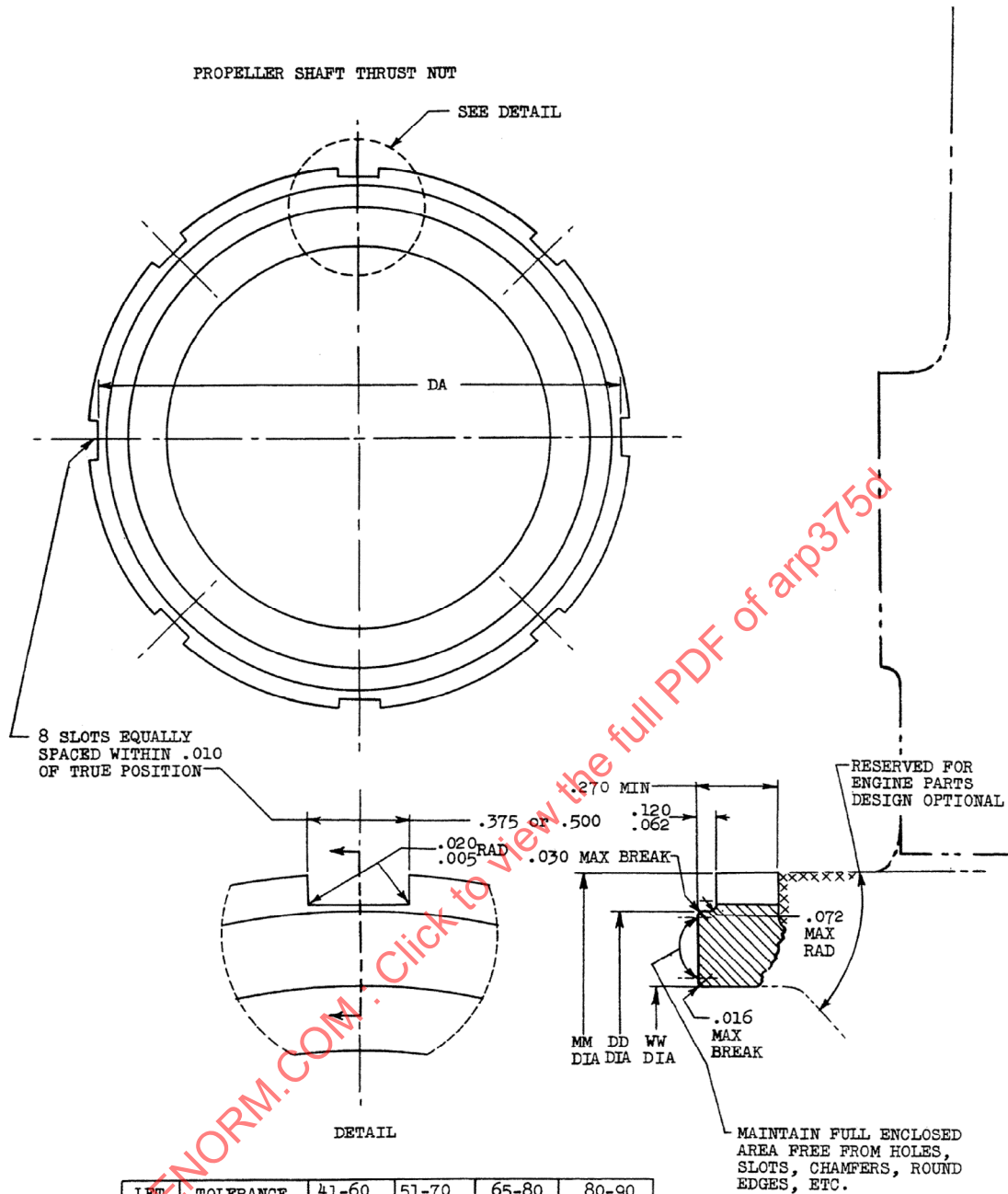
M DIM. DOES NOT APPLY WHEN UNDERCUT IS USED

** LL TO BE 4.000 AND PP TO BE 45° WHEN PRACTICABLE

TABLE FOR FIG. 1, 1A AND 2

UNLESS OTHERWISE SPECIFIED

ALLOWABLE TOLERANCE ON:-
LINEAR DIMENSIONS ±.01
ANGULAR DIMENSIONS ± 2°



*** MIN VALUE OF MM APPLIES OVER THE .270 MIN LENGTH, DETAILED ABOVE, BEYOND WHICH THE CONTOUR MAY VARY TO SUIT DESIGN OF THE ENGINE NOSE BUT SHALL NEVER EXCEED THE MAXIMUM VALUE OF MM.

FIG. 1B

UNLESS OTHERWISE SPECIFIED

BREAK ALL EDGES .005-.016
ALLOWABLE TOLERANCE ON:-
LINEAR DIMENSIONS $\pm .01$
ANGULAR DIMENSIONS $\pm 2^\circ$