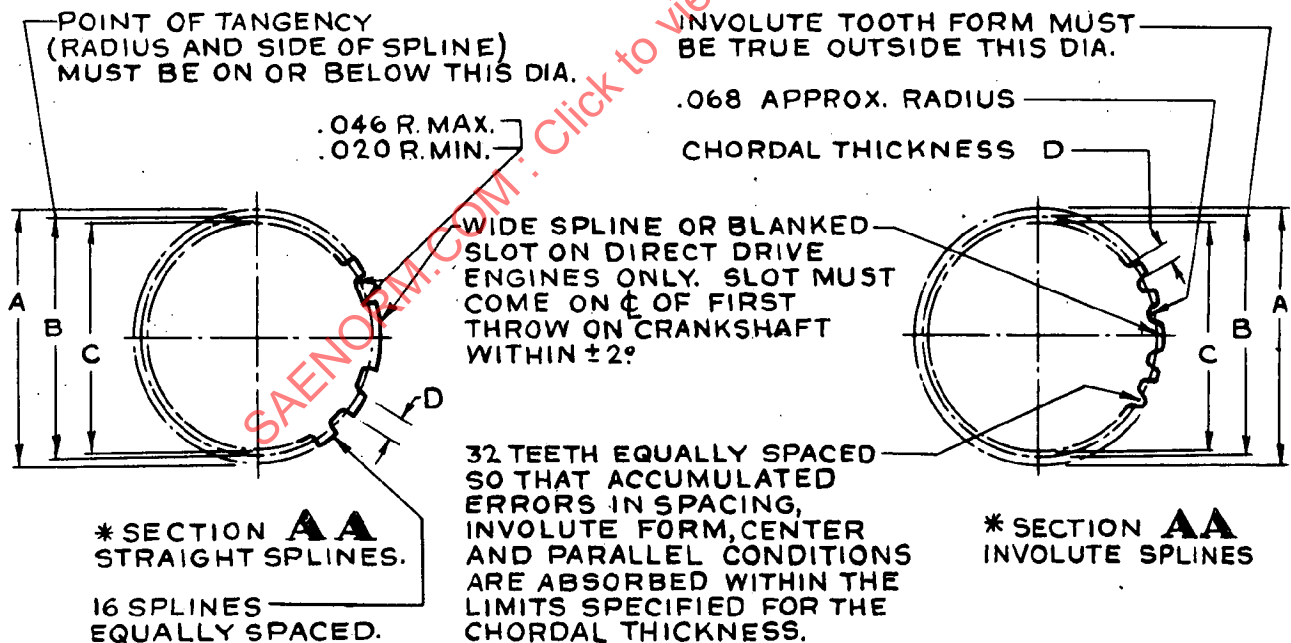
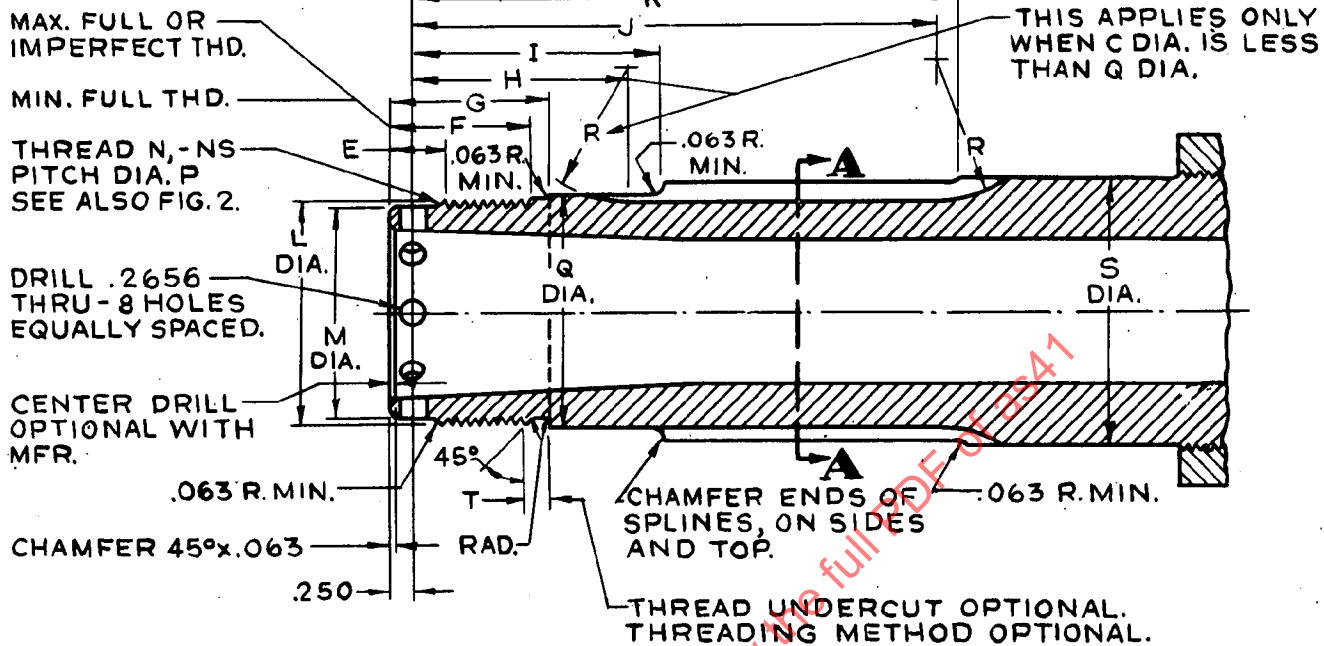


PROPELLER SHAFT ENDS - TYPE I

Issued 11-1-41
Revised

REFERENCE **A**N STANDARD

Page 1 of 8 pages



* ROTATION: - EITHER DIRECTION.

NOTE: DIAS. A, Q AND S MUST BE CONCENTRIC
WITH EACH OTHER WITHIN .0003 FULL
INDICATOR READING FOR PURPOSES
OF GAGING. INSPECT PRIOR TO SPLINING.

SHAFT SPLINE DATA:
NO. TEETH 32 - D.P. 7/16
PRESSURE ANGLE 30°
PITCH DIA. 4.5714 (THEO)

SEE FIG. 2, 3, 4, 5 AND 6 FOR
OTHER APPLICABLE DIMENSIONS.
SEE TABLE I FOR FIG. 1.

FIG. 1

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS $\pm .010$.

Page 2 of 8 pages

REFERENCE **AN** STANDARD

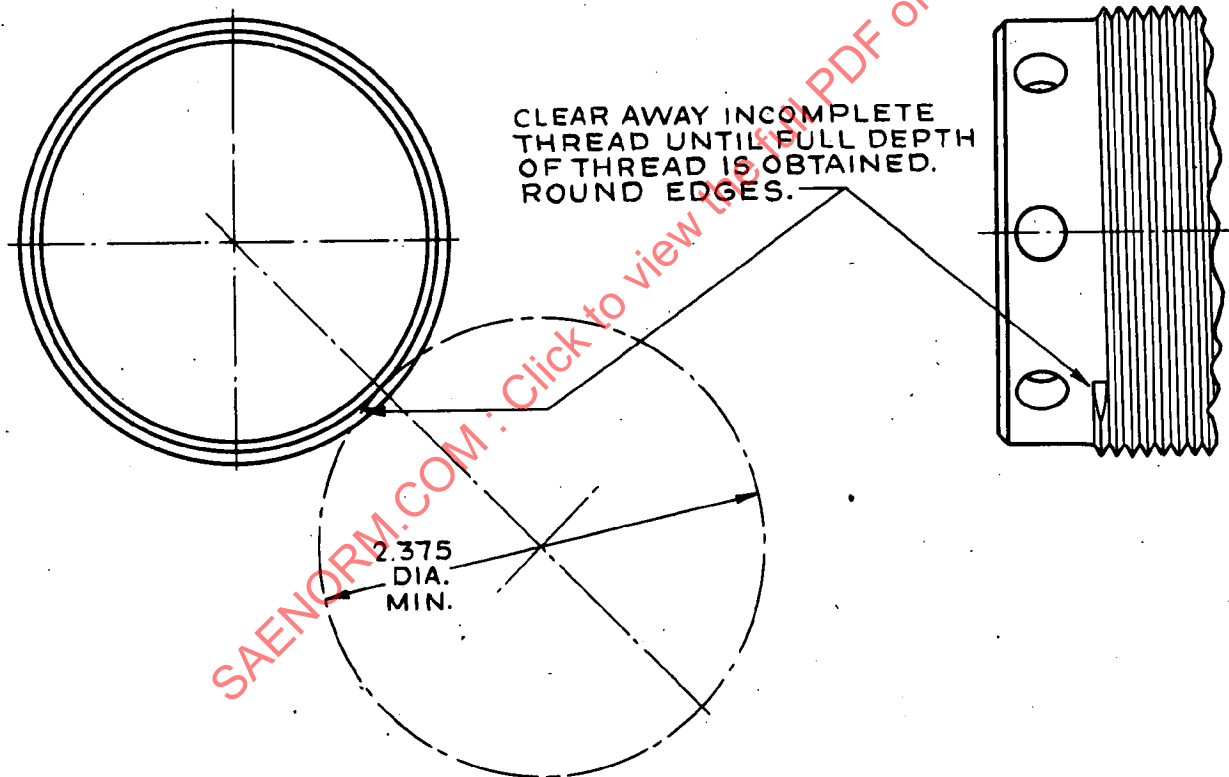
LET	TOLER.	NO. 10	NO. 20	NO. 30	NO. 40	NO. 50
A	$\begin{smallmatrix} +0.000 \\ -0.002 \end{smallmatrix}$	1.992	2.367	2.617	3.117	3.804
B	MAX.	1.781	2.156	2.406	2.875	3.554
C	MIN.	1.689	2.064	2.314	2.783	3.462
D	± 0.0008	0.1940	0.2310	0.2570	0.3040	0.3750
E		0.438	0.563	0.563	0.563	0.500
F	$\begin{smallmatrix} +0.070 \\ -0.000 \end{smallmatrix}$	1.100	1.410	1.410	1.410	1.680
G		1.188	1.500	1.500	1.500	1.780
H		=	=	=	2.125	2.375
I		1.688	2.375	2.375	2.438	2.688
J	± 0.030	4.500	5.250	5.625	5.250	6.000
K	± 0.015	5.000	5.781	6.156	5.781	6.500
L	$\begin{smallmatrix} +0.000 \\ -0.004 \end{smallmatrix}$	1.682	2.057	2.307	2.807	3.432
M		1.563	1.938	2.188	2.688	3.313
N	=	1.6875 -12	2.0625 -12	2.3125 -12	2.8125 -12	3.4375 -12
P	$\begin{smallmatrix} +0.000 \\ -0.003 \end{smallmatrix}$	1.631	2.006	2.256	2.756	3.381
Q	$\begin{smallmatrix} +0.000 \\ -0.002 \end{smallmatrix}$	1.687	2.062	2.312	2.812	3.500
R	MAX.	1.500	1.500	1.500	1.500	1.500
S	$\begin{smallmatrix} +0.000 \\ -0.002 \end{smallmatrix}$	2.000	2.375	2.625	3.125	3.812
T	± 0.030	0.170	0.170	0.170	0.170	0.170

*TOLER.	*NO. 60
$\begin{smallmatrix} +0.000 \\ -0.003 \end{smallmatrix}$	4.680
MAX.	4.436
MIN.	4.3114
$\begin{smallmatrix} +0.0000 \\ -0.0030 \end{smallmatrix}$	0.2233
	0.563
$\begin{smallmatrix} +0.100 \\ -0.000 \end{smallmatrix}$	1.870
	2.000
	=
	3.063
± 0.030	6.687
± 0.015	7.062
$\begin{smallmatrix} +0.000 \\ -0.004 \end{smallmatrix}$	4.245
	4.063
=	4.250 -8
$\begin{smallmatrix} +0.000 \\ -0.003 \end{smallmatrix}$	4.1668
$\begin{smallmatrix} +0.000 \\ -0.002 \end{smallmatrix}$	4.296
MAX.	2.000
$\begin{smallmatrix} +0.000 \\ -0.002 \end{smallmatrix}$	4.687
± 0.030	0.250

NOTE: P DIMENSION MAXIMUM LIMIT GIVES MAX. FULL OR IMPERFECT THREAD.
MINIMUM LIMIT GIVES MIN. FULL THREAD.
F DIMENSION DOES NOT APPLY WHEN UNDERCUT IS USED
* INDICATES INVOLUTE SPLINED SHAFT

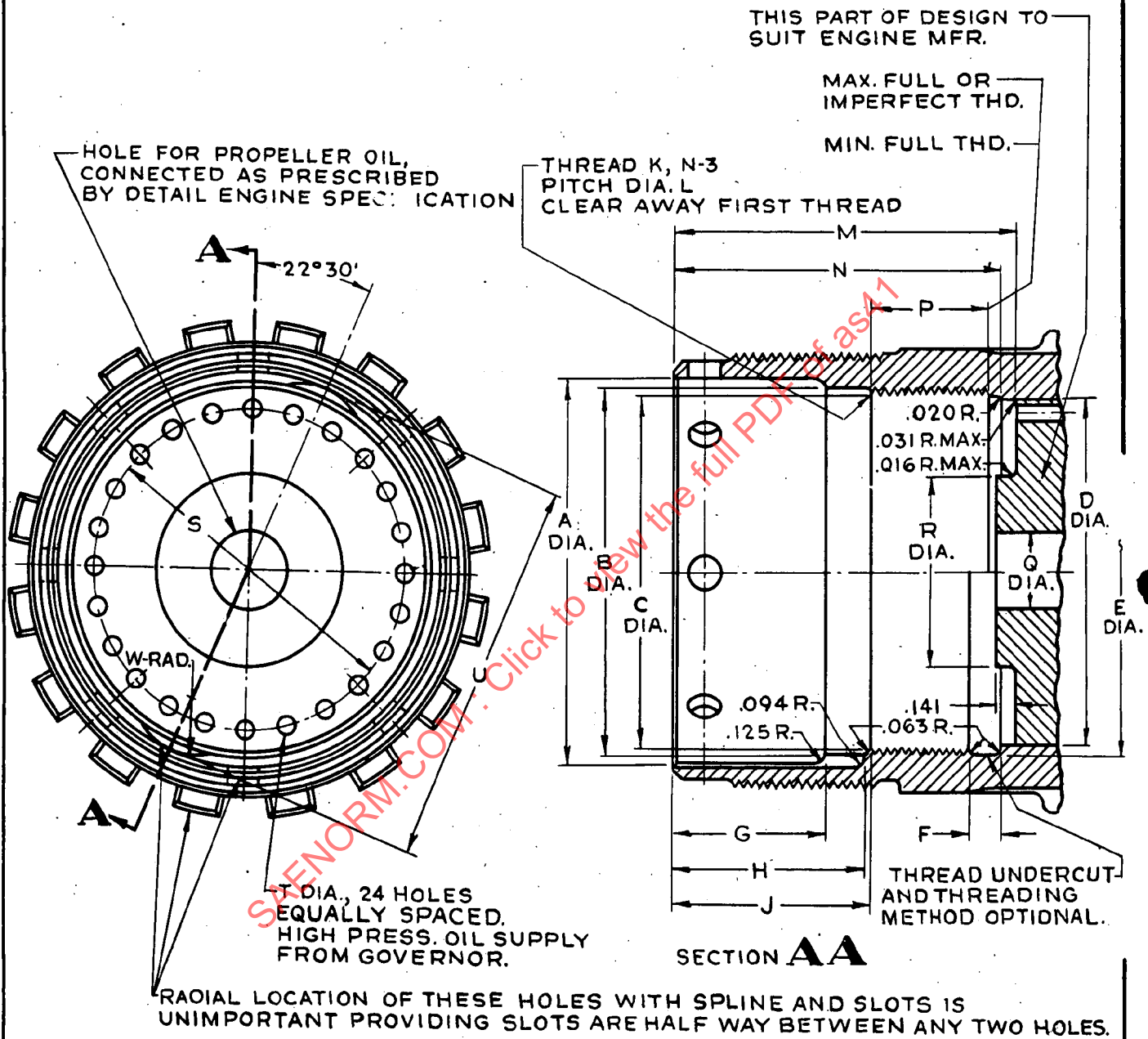
TABLE I FOR FIG. I

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS $\pm .010$

REFERENCE **AN** STANDARDREMOVAL OF LEAD END OF THREAD
FOR SHAFT NOS. 10, 20, 30, 40, 50 AND 60.

METHOD OF REMOVAL OPTIONAL.

FIG. 2

REFERENCE **AN** STANDARD

SEE TABLE 2 FOR FIG. 3.

FIG. 3UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS $\pm .010$.

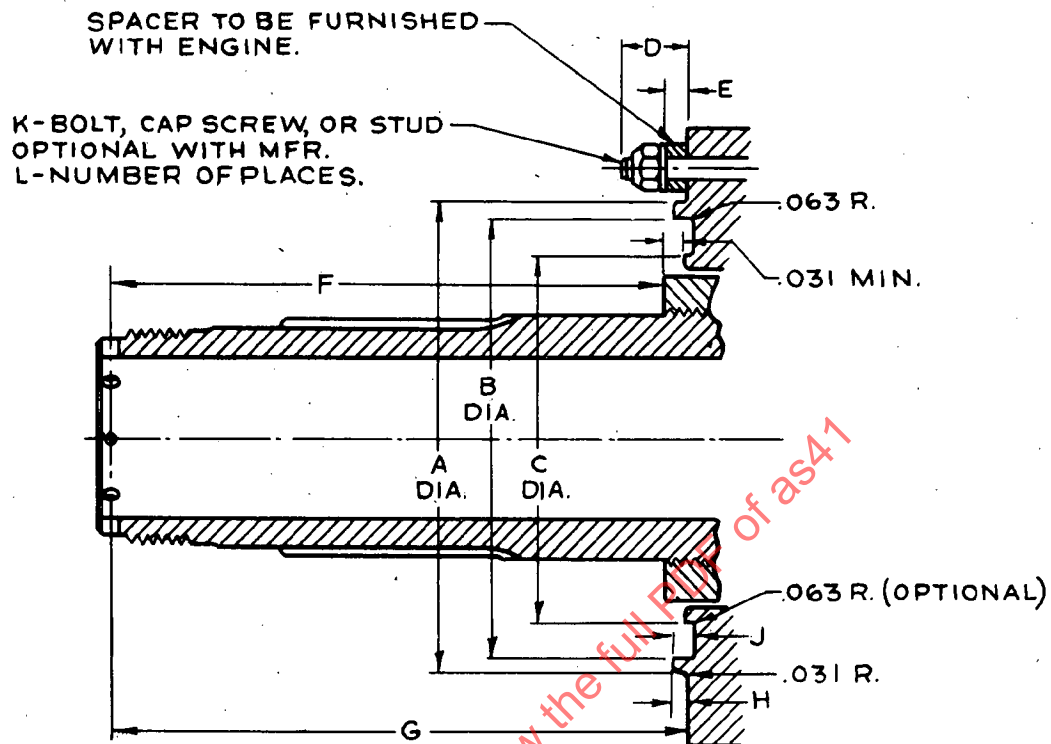
REFERENCE **A N** STANDARD

LET	TOLER.	NO. 10	NO. 20	NO. 30	NO. 40	NO. 50	NO. 60
A		=	1.625	1.875	2.375	3.063	3.625
B	$\begin{smallmatrix} +0.010 \\ -0.000 \end{smallmatrix}$	=	1.516	1.766	2.266	2.891	3.516
C	$\begin{smallmatrix} +0.005 \\ -0.000 \end{smallmatrix}$	=	1.435	1.685	2.185	2.810	3.413
D	$\begin{smallmatrix} +0.005 \\ -0.000 \end{smallmatrix}$	=	1.430	1.680	2.180	2.805	3.408
E	$\begin{smallmatrix} +0.010 \\ -0.000 \end{smallmatrix}$	=	1.516	1.766	2.266	2.891	3.516
F		=	0.125	0.156	0.156	0.250	0.250
G		=	0.500	0.563	0.563	1.219	1.219
H		=	0.656	0.781	0.781	1.531	1.344
J		=	0.688	0.813	0.813	1.563	1.375
K	=	=	1.500 -16	1.750 -16	2.250 -16	2.875 -16	3.500 -12
L		=	1.4594	1.7094	2.2094	2.8344	3.4459
	TOLER.	=	$\begin{smallmatrix} +0.0040 \\ -0.0000 \end{smallmatrix}$	$\begin{smallmatrix} +0.0041 \\ -0.0000 \end{smallmatrix}$	$\begin{smallmatrix} +0.0044 \\ -0.0000 \end{smallmatrix}$	$\begin{smallmatrix} +0.0046 \\ -0.0000 \end{smallmatrix}$	$\begin{smallmatrix} +0.0053 \\ -0.0000 \end{smallmatrix}$
M	± 0.015	=	1.500	1.656	1.656	2.719	2.500
N		=	1.375	1.531	1.531	2.594	2.375
P	$\begin{smallmatrix} +0.100 \\ -0.000 \end{smallmatrix}$	=	=	0.600	0.600	0.920	0.900
Q	MIN.	=	0.375	0.438	0.547	0.594	0.594
R	$\begin{smallmatrix} +0.000 \\ -0.002 \end{smallmatrix}$	=	0.609	0.734	1.047	1.483	1.859
S		=	1.100	1.350	1.800	2.400	2.920
T		=	0.082	0.082	0.125	0.1405	0.1405
U		=	1.688	1.938	2.438	3.063	3.688
W		=	0.375	0.375	0.500	0.500	0.500

NOTE: P DIMENSION MAXIMUM LIMIT GIVES MAX. FULL OR IMPERFECT THREAD.
MINIMUM LIMIT GIVES MIN. FULL THREAD.
P DIMENSION DOES NOT APPLY WHEN UNDERCUT IS USED

TABLE 2 FOR FIG. 3

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS ± 0.010

REFERENCE **AN** STANDARD

LET.	TOLER.	NO. 10	NO. 20	NO. 30	NO. 40	NO. 50	NO. 60
A	±0.001		4.998	4.998	6.248	7.248	7.748
B	MIN.		4.750	4.750	5.875	6.813	7.313
C	MAX.		4.250	4.250	4.750	6.000	6.313
* D	MAX.		0.938	0.938	1.000	1.000	1.094
E			0.313	0.313	0.375	0.375	0.375
F	±0.015	6.375	7.875	8.243	7.906	8.562	10.500
G	±0.030		8.218	8.218	8.078	8.968	11.125
H			0.188	0.188	0.188	0.250	0.250
J	MIN.		0.250	0.250	0.125	0.344	0.219
K	=		0.375	0.375	0.375	0.375	0.4375
L	=		6	7	6 OR 12	10	8 OR 16

FOR OTHER APPLICABLE DIMENSIONS SEE FIG. 5 AND 6.
 * MIN. TO BE MAX. SUMMATION OF PARTS AND STUD CHAMFER USED.
 TOLERANCE FOR LOCATION OF K ±.005.
 ENGINE NOSE COVER AND SHAFT PROJECTION DIMENSIONS

FIG. 4

UNLESS OTHERWISE SPECIFIED, ALLOWABLE TOLER. ON FINISHED DIMS. IS ±.010.