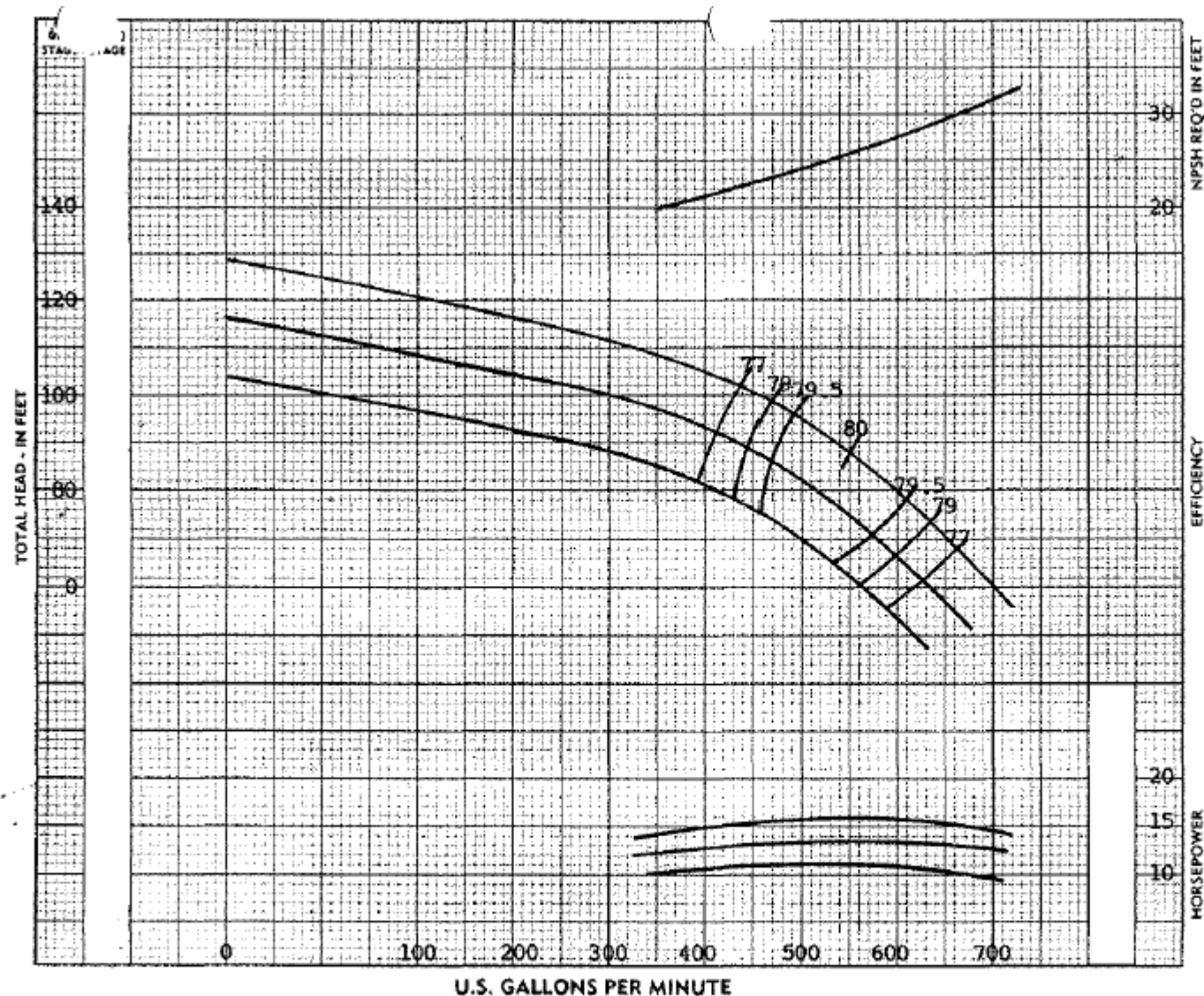


1567 E. HWY. 160
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I-E
"TOP-O-THE LINE"

8AL-550
DESIGN

3450
R.P.M.

SECTION 0
PAGE 46
DATE 4-8-91

TRIM DIAMETER: A 5.969" B 5.750" C 5.469" _____ " _____ " _____ "
One stage deduct 2 % _____ stage deduct 1 % _____ stage deduct 0 %
EFFICIENCY CORRECTION: _____ stage add 0 % _____ stage add _____ % _____ stage add _____ %
EFFECTIVE IMPELLER EYE AREA 10.4 sq. inches NUMBER OF IMPELLER VANES FIVE
THRUST CONSTANT (K) 7.6 Lbs./Ft. WR^2 (See Note #) 0.160 Lbs. Ft.² MAXIMUM SPHERE SIZE 9/16"
IMPELLER EYE FLUID VELOCITY CONSTANT (K_v) 0.30 IMPELLER PERIPHERAL SPEED CONSTANT (N:) 1.52(Ft./Sec.) 91.20(Ft./Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 7 1/2 ", MINIMUM DIAMETER = 7 7/16 ", BELL DIAMETER 6 3/4 ", MIN. BELL DIAMETER 6 3/4 ".
 MAXIMUM NO. STAGES (Std. Constr.) 35 MAXIMUM HEAD (Std. Constr.) 810 Ft.
 DIAMETER IMPELLER SHAFT 1 3/16 " MINIMUM IMPELLER SHAFT THREADS 3/4 "
 LATERAL (See explanation below)* NOMINAL 437 " MINIMUM 310 " STANDARD 375 " MAXIMUM 687 "
 WEAR RING CLEARANCE (Nominal) 0.013 " SHAFT / BEARING CLEARANCE (Nominal) 0.008 "

FORMULAS: HYDRAULIC THRUST = K'Factor x Laboratory Head in feet = _____ Lbs.

IMPELLER PERIPHERAL SPEED (U_2) = N_1 Constant $\times$ Impeller Diameter _____ Ft./Sec. or _____ Ft./Min.

IMPELLER EYE FLUID VELOCITY (V) = K_{Constant} x GPM = _____ Ft./Sec.

NOTE * = per impeller. WR^2 includes impeller, impeller collet, and a stage length of impeller shaft

NOTE * = see lateral definition on Page 8.1, Section 2.1, dated 2/15/63.

NOTE - NOMINAL PROJECTIONS ARE: SHAFT = 1.4"

(referenced pipe butt or flange face)

- A - Length one-stage assembly / threaded suction
- B - Length one-stage assembly / bell suction
- C - Additional stage length
- D - Bowl diameter
- E - Bell diameter
- F - Projection of bearing hub / bell suction
- G - O.D. bell suction basket strainer
- J - Basket length below bell suction lip
- K - Minimum required submergence, above bottom of bearing hub
- L - Bottom of bearing hub to impeller eye
- M - Pipe butt to top bowl flange
- N - Column pipe flange to bowl flange
- P - Suction case (or coupling) thread engagement
- R - Suction case flange diameter
- S - Flange to flange / bowl to column

APPLICABLE DIMENSIONS

DIMENSION	A	B	C	D	E	F	G	J	K	L	M	N	P	R	S
INCHES	20 $\frac{1}{2}$	17	6 $\frac{1}{2}$	7 $\frac{1}{2}$	9 $\frac{3}{4}$	3 $\frac{3}{8}$	10 $\frac{3}{4}$	6	15	7	7	5 $\frac{5}{8}$	1 $\frac{3}{8}$	10	5

