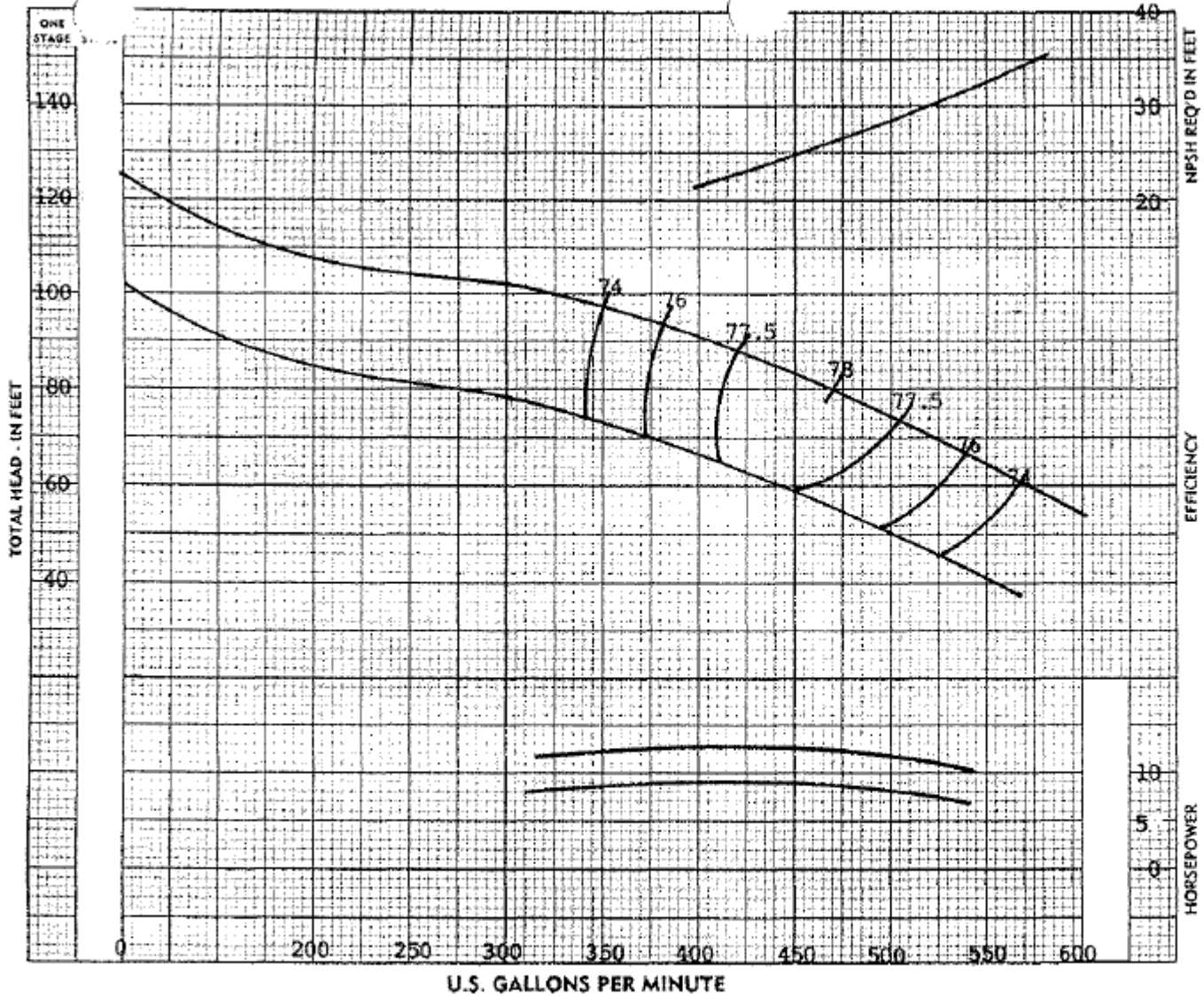

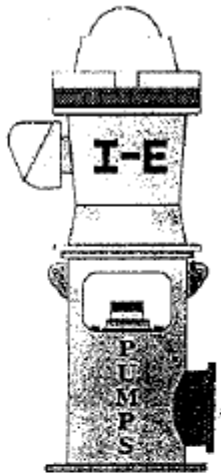

1567 E. HWY. 160
P.O. BOX 112
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(719) 852-5174

I-E
"TOP-O-THE LINE"

8AXL-470
DESIGN

3450
R.P.M.

SECTION O
PAGE 45
DATE 4-8-91

IMPELLER DATA

TRIM DIAMETER: A 5.750 ", B 5.250 " C _____ ", _____ ", _____ ", _____ ".
One stage deduct 2 %, 2 stage deduct 1 %, 5 stage deduct 0 %.
EFFICIENCY CORRECTION: _____ stage add _____ %, _____ stage add _____ %, _____ stage add _____ %.
EFFECTIVE IMPELLER EYE AREA 9.5 sq. inches NUMBER OF IMPELLER VANES SIX
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_e) .0338 IMPELLER PERIPHERAL SPEED CONSTANT (N_i) 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_i Constant x Impeller Diameter _____ Ft./Sec. or _____ Ft./Min.
IMPELLER EYE FLUID VELOCITY (V_e) = K_e 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 1/2	17	6 1/2	7 1/2	9 3/4	3 3/8	10 3/4	6	15	7	7	5 5/8	1 3/8	10	5