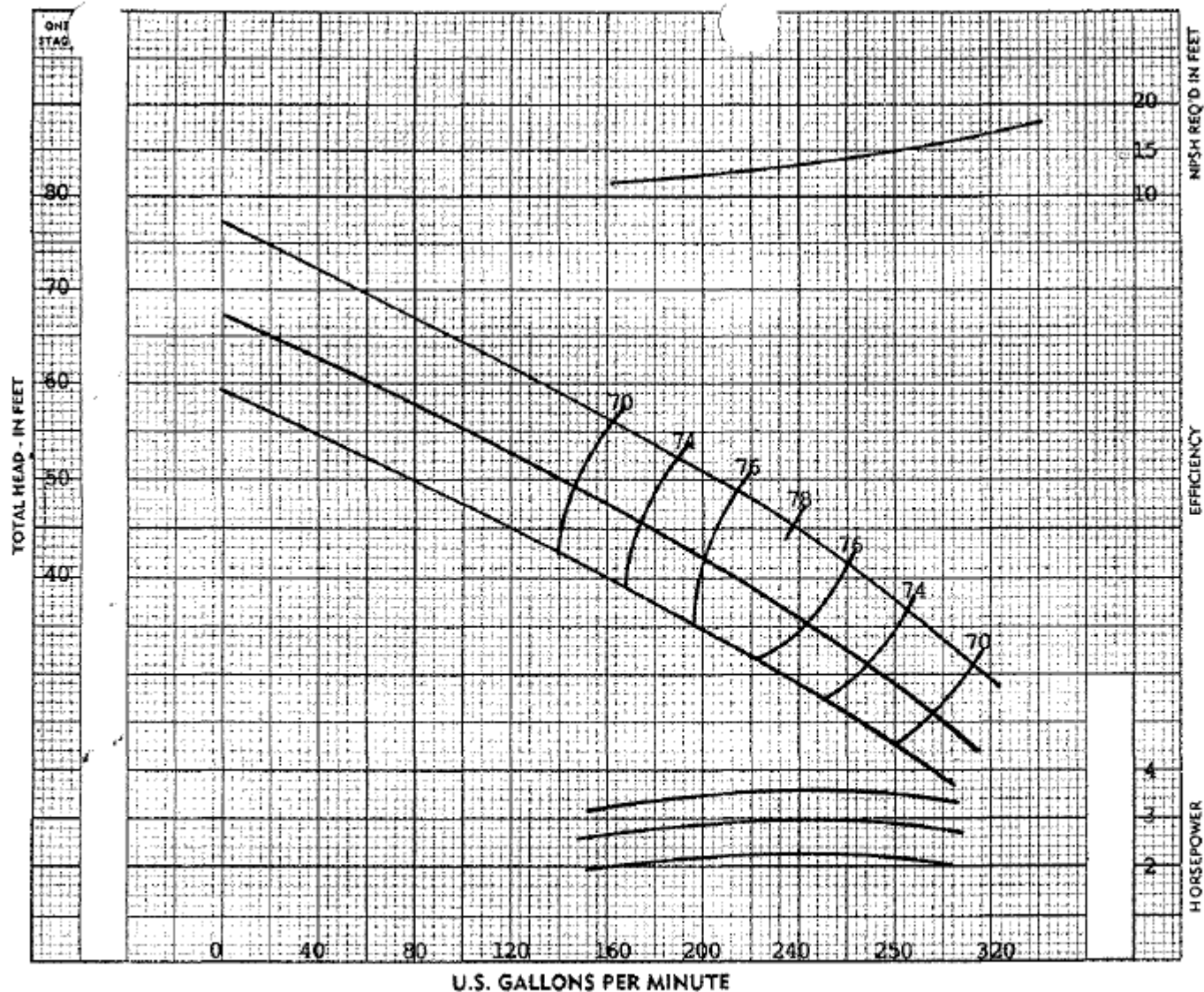


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

6AL-236
DESIGN

3450
R.P.M.

SECTION 0
PAGE 40
DATE 4-8-91

LAPELLER DATA

TRIM DIAMETER: A 4.437" B 4.250" C 4.000" " " " "
One stage deduct 5% 2 stage deduct 2% stage deduct _____%
EFFICIENCY CORRECTION: 7 stage add 1% 12 stage add 1.5% stage add _____%
EFFECTIVE IMPELLER EYE AREA 6.79 sq. inches NUMBER OF IMPELLER VANES FOUR
THRUST CONSTANT (K) 3.14 Lbs.. Ft. WR^2 (See Note #) 0.0428 Lbs. Ft.² MAXIMUM SPHERE SIZE 1/2"
IMPELLER EYE FLUID VELOCITY CONSTANT (K_v) .047 IMPELLER PERIPHERAL SPEED CONSTANT (N_v) 1.52 (Ft./Sec.) 9.12Q (Ft./Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 5 1/2" , MINIMUM DIAMETER = 5 1/2" , BELL DIAMETER 5 1/4" , MIN. BELL DIAMETER 5 1/4" .
 MAXIMUM NO. STAGES (Std. Constr.) THIRTY , MAXIMUM HEAD (Std. Constr.) 865 Ft.
 DIAMETER IMPELLER SHAFT 1" , MINIMUM IMPELLER SHAFT THREADS 3/4" .
 LATERAL (See explanation below)* NOMINAL .375" , MINIMUM .250" , STANDARD .310" , MAXIMUM .500" .
 WEAR RING CLEARANCE (Nominal) .0135" , SHAFT BEARING CLEARANCE (Nominal) .007" .
 FORMULAS: HYDRAULIC THRUST = K Factor x Laboratory Head in feet = _____ Lbs.
 IMPELLER PERIPHERAL SPEED (U) = N₁ Constant x Impeller Diameter _____ Ft./Sec. or _____ Ft./Min.
 IMPELLER EYE FLUID VELOCITY (V) = K₂ Constant x GPM = _____ Ft./Sec.

A - Length one-stage assembly / threaded suction
 B - Length one-stage assembly / bell suction
 C - Additional stage length
 D - Bowl diameter

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 = 9.34" (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	17 $\frac{1}{8}$	16 $\frac{1}{8}$	5 $\frac{1}{8}$	5 $\frac{1}{2}$	4 $\frac{3}{8}$	1	5 $\frac{3}{16}$	4	13	7	5 $\frac{1}{2}$	4 $\frac{1}{8}$	1 $\frac{1}{4}$	9	3 $\frac{1}{2}$

