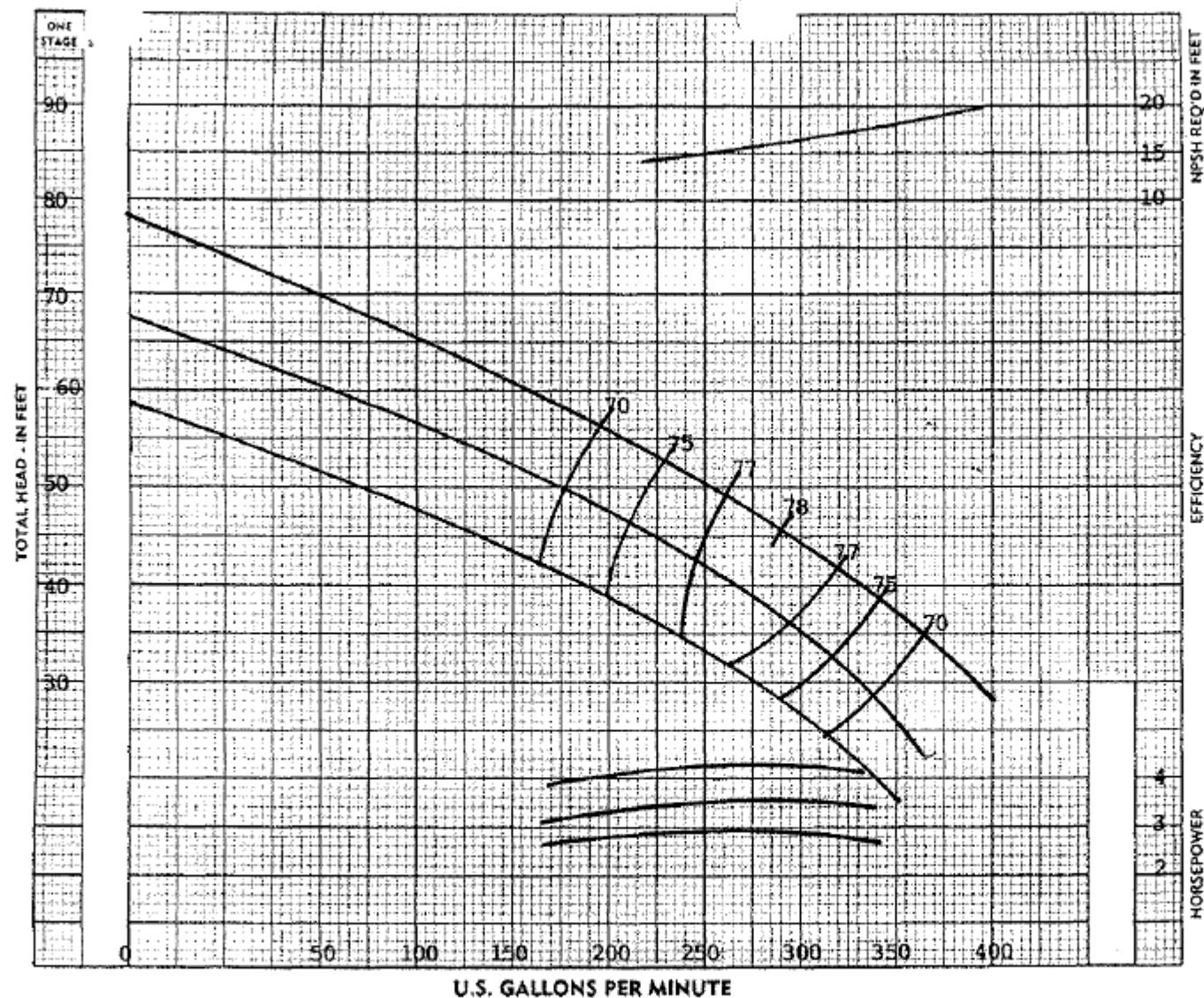


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

6AM-290

DESIGN

3450

R.P.M.

SECTION 0
PAGE 41
DATE 4-8-91

IMPELLER DATA

TRIM DIAMETER: A 4.437 " B 4.250 " C 4.00 " , , ,
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 FIVE
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): 7.64 (Ft./Sec.) 458.40 (Ft./Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER - 5 1/2 " , MINIMUM DIAMETER - 5 1/8 " , 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_2) = N , Constant $\times$ Impeller Diameter _____ Ft./Sec. or _____ Ft./Min.

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

NOTE: τ = 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 3/4 "

(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 tip
- 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 ¹ / ₈	16 ¹ / ₈	5 ¹ / ₈	5 ¹ / ₂	4 ⁷ / ₈	1	5 ⁹ / ₁₆	4	13	7	5 ¹ / ₂	4 ¹ / ₈	1 ¹ / ₄	9	3 ¹ / ₂

