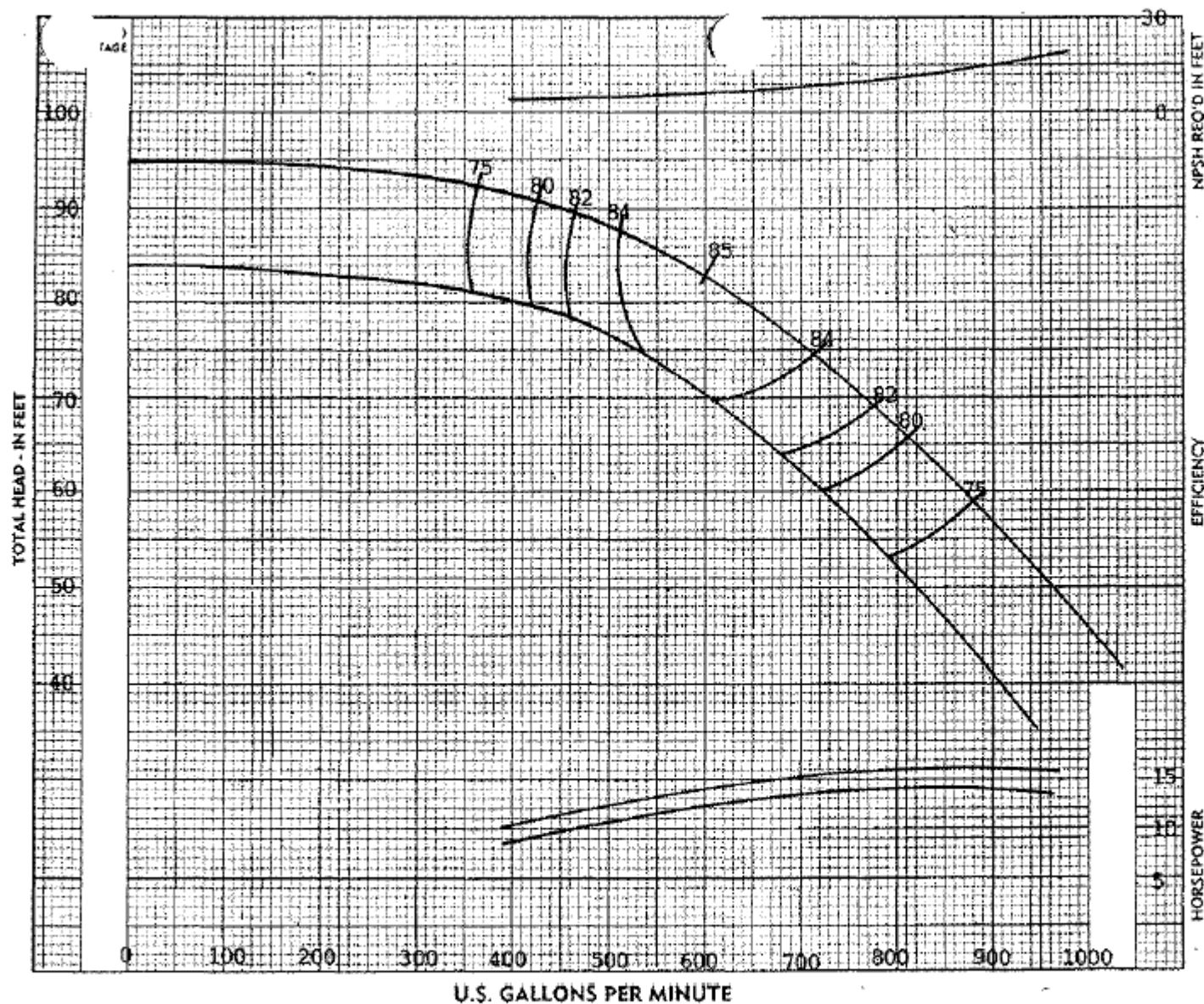




1567 E. HWY. 160
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MONTE VISTA
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I-E
"TOP-O-THE LINE"

12KH-600
DESIGN

1770
R.P.M.

SECTION N
PAGE 122
DATE 03-25-91

IMPELLER DATA

TRIM DIAMETER: A 9.325 " B 8.875 " C _____ " \ _____ " _____ "
 One stage deduct -3 %, 2 stage deduct -2 %, 3 stage deduct -1 %.
 EFFICIENCY CORRECTION: _____ stage add _____ %, _____ stage add _____ %, _____ stage add _____ %.
 EFFECTIVE IMPELLER EYE AREA 15.89 sq. inches NUMBER OF IMPELLER VANES _____
 THRUST CONSTANT (K) _____ Lbs./Ft. WR^2 (See Note *) _____ Lbs. Ft.² MAXIMUM SPHERE SIZE _____ "
 IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) _____ IMPELLER PERIPHERAL SPEED CONSTANT (N_1) _____ (Ft./Sec.) _____ (Ft./Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 11.625 " MINIMUM DIAMETER = 11.375 " BELL DIAMETER 11.375 " MIN. BELL DIAMETER 10.375 "
 MAXIMUM NO. STAGES (Std. Constr.) 3 MAXIMUM HEAD (Std. Constr.) 587 Ft.
 DIAMETER IMPELLER SHAFT 1.6875 " MINIMUM IMPELLER SHAFT THREADS _____ "
 LATERAL (See explanation below)* NOMINAL _____ " MINIMUM _____ " STANDARD .687 " MAXIMUM _____ "
 WEAR RING CLEARANCE (Nominal) .012 " SHAFT / BEARING CLEARANCE (Nominal) .007 "

FORMULAS: HYDRAULIC THRUST = K Factor x Laboratory Head in feet = 254 Lbs.
 IMPELLER PERIPHERAL SPEED (U_2) = N_1 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 collar, 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 = 14 " Tube = 6 "

(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	26.5	30	9	11.625	11.375										

