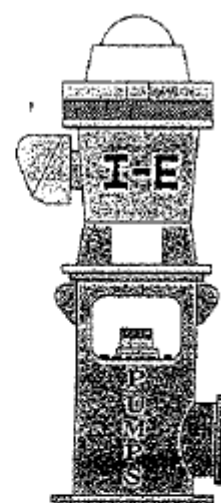
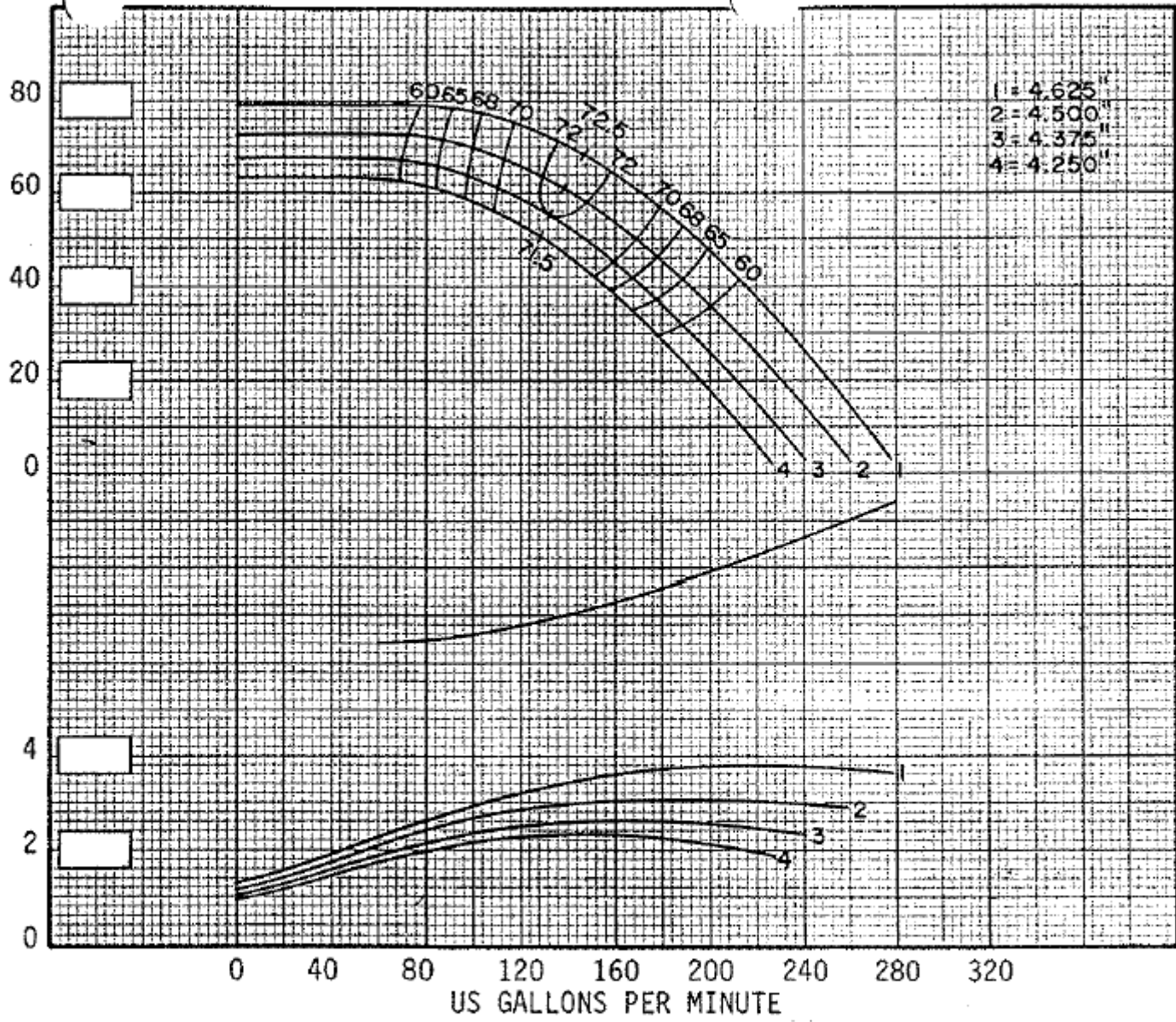


ONE STAGE () ES

HEAD IN FEET

HORSEPOWER



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

(719) 852-5174

I-E
"TOP-O-THE LINE"

6SM-146
DESIGN

3450
R.P.M.

SECTION 0
PAGE 801
DATE 4-18-91

IMPELLER DATA

TRIM DIAMETER: A 4.625 ", B 4.500 ", C 4.375 ", 4.250 ", — ", — "

One stage deduct 4 %, two stage deduct 3 %, three stage deduct 2 %

EFFICIENCY CORRECTION: 5 stage add 0 %, — stage add — %, — stage add — %

EFFECTIVE IMPELLER EYE AREA 4.977 sq. inches NUMBER OF IMPELLER VANES —

THRUST CONSTANT (K) 2.34 Lbs./Ft. WR_2 (See Note 6) .037 Lbs./Ft.² MAXIMUM SPHERE SIZE .312

IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) — IMPELLER PERIPHERAL SPEED CONSTANT (N_1) — (Ft/Sec) — (Ft/Min)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 5.875 ", MINIMUM DIAMETER = — ", BELL DIAMETER 9.5 ", MIN. BELL DIAMETER — "

MAXIMUM NO. STAGES (Std. Constr.) 12 MAXIMUM HEAD (Std. Constr.) 788 Ft

DIAMETER IMPELLER SHAFT 1.00 ", MINIMUM IMPELLER SHAFT THREADS — "

LATERAL (See explanation below) * NOMINAL — ", MINIMUM — ", STANDARD — ", MAXIMUM — "

WEAR RING CLEARANCE (Nominal) .012 ", SHAFT/BEARING CLEARANCE (Nominal) .007 "

FORMULAS: HYDRAULIC THRUST = K Factor x Laboratory Head in feet = — 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: ϕ = 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 = 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	15.9375	—	4.9375	5.875	—	2.5	—	—	11	—	—	—	—	—	—

