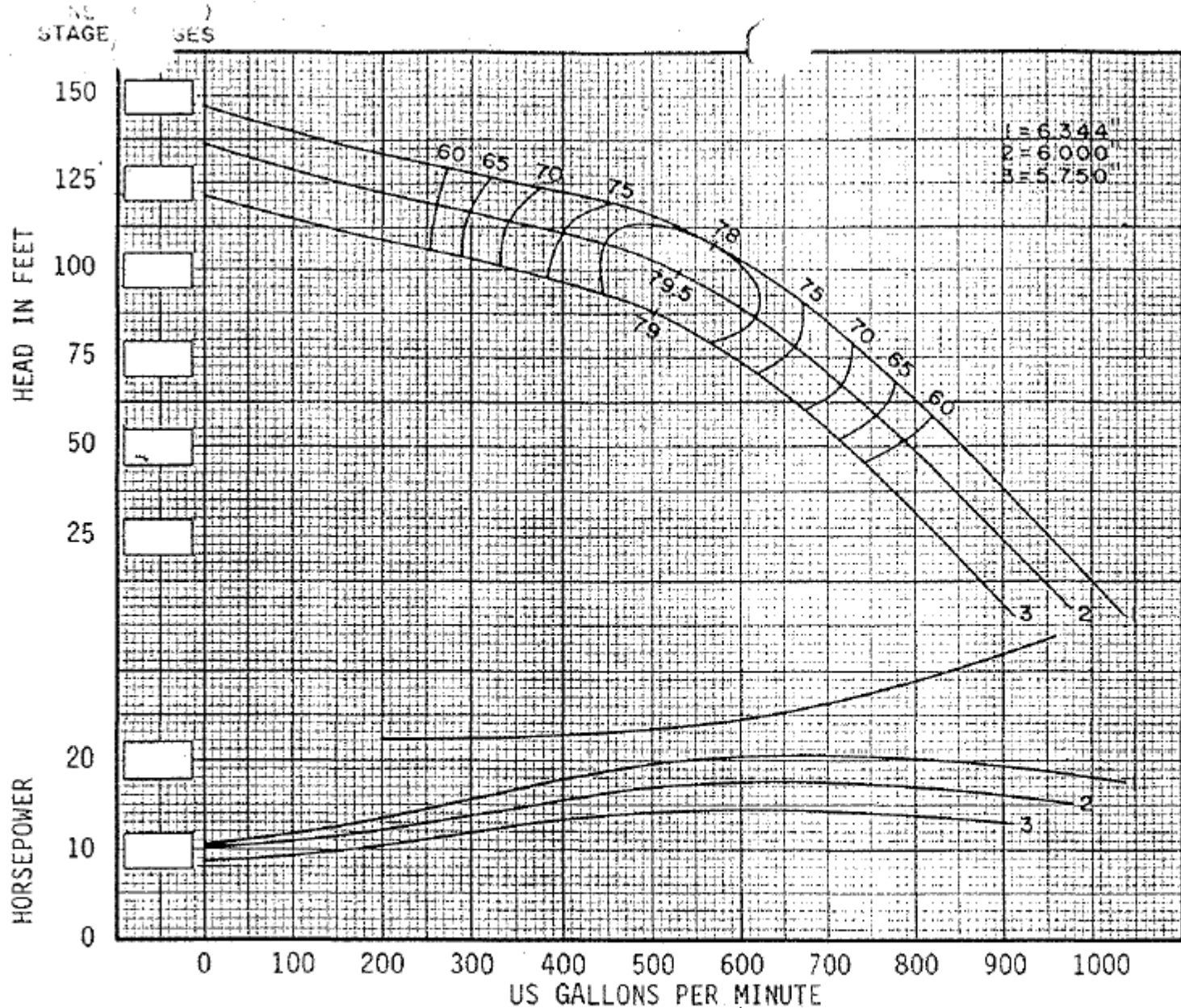




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I-E
"TOP-O-THE LINE"

8TM-570
DESIGN

3450
R.P.M.

SECTION 0
PAGE 812
DATE 4-18-91

IMPELLER DATA

TRIM DIAMETER: A 6.344 ", B 6.00 ", C 5.750 ", — ", — ", — "

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

EFFICIENCY CORRECTION: 4 stage add 0 %, — stage add — %, — stage add — %

EFFECTIVE IMPELLER EYE AREA 9.04 sq. inches NUMBER OF IMPELLER VANES —

THRUST CONSTANT (K) 4.9 Lbs./Ft. WR_2 (See Note 6) .158 Lbs./Ft.2 MAXIMUM SPHERE SIZE .656

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

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 7.6875 ", MINIMUM DIAMETER = — ", BELL DIAMETER 11.375 ", MIN. BELL DIAMETER — "

MAXIMUM NO. STAGES (Std. Constr.) 7 MAXIMUM HEAD (Std. Constr.) 804 Ft

DIAMETER IMPELLER SHAFT 1.25 ", 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_2)= K_v 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= 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	17.875	—	5.875	7.6875	—	2.75	—	—	11	—	—	—	—	—	—

