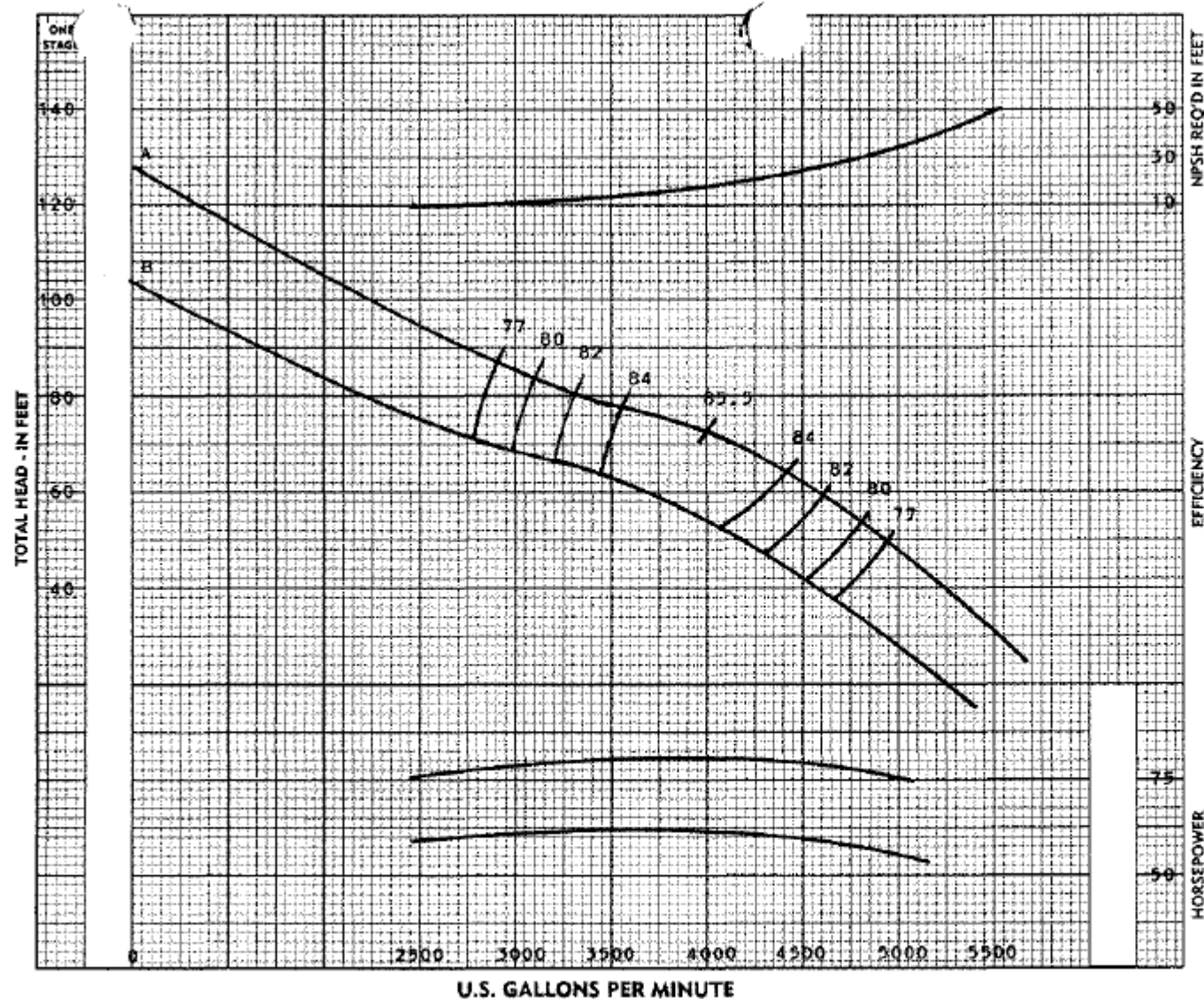


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I-E
"TOP-O-THE LINE"

15AH-4000
DESIGN

1770
R.P.M.

SECTION N
PAGE 146
DATE 12-21-90

IMPELLER DATA

TRIM DIAMETER: A 11.594 ", B 10.929 ", C -- ", -- ", -- ", -- "

One stage deduct 4 %, 2 stage deduct 2 %, 3 stage deduct 1 %

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

EFFECTIVE IMPELLER EYE AREA 62.21 sq. inches NUMBER OF IMPELLER VANES SIX

THRUST CONSTANT (K) 25.4 Lbs./Ft. WR_2 (See Note 6) 3.256 Lbs./Ft.2 MAXIMUM SPHERE SIZE 1-3/4

IMPELLER EYE FLUID VELOCITY CONSTANT (K_v) .005 IMPELLER PERIPHERAL SPEED CONSTANT (N_1) 7.68 (Ft/Sec) -- (Ft/Min)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 14-1/2 ", MINIMUM DIAMETER = 14-5/16 ", BELL DIAMETER -- ", MIN. BELL DIAMETER -- "

MAXIMUM NO. STAGES (Std. Constr.) 10 MAXIMUM HEAD (Std. Constr.) 693 Ft

DIAMETER IMPELLER SHAFT 2-3/16 ", MINIMUM IMPELLER SHAFT THREADS 14 "

LATERAL (See explanation below) * NOMINAL -- ", MINIMUM -- ", STANDARD .641 ", MAXIMUM 1.0 "

WEAR RING CLEARANCE (Nominal) .015 ", SHAFT/BEARING CLEARANCE (Nominal) 0.010 "

FORMULAS: HYDRAULIC THRUST=K Factor x Laboratory Head in feet= 25.4 Lbs

IMPELLER PERIPHERAL SPEED (U_1)= N_1 Constant x Impeller Diameter 768 Ft/Sec or -- Ft/Min

IMPELLER EYE FLUID VELOCITY (V_1)= K_v Constant x GPM= .005 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	37-1/2	29-7/8	15-1/4	14-1/2	-	7-3/4	-	-	35-1/4	-	-	-	-	-	-

