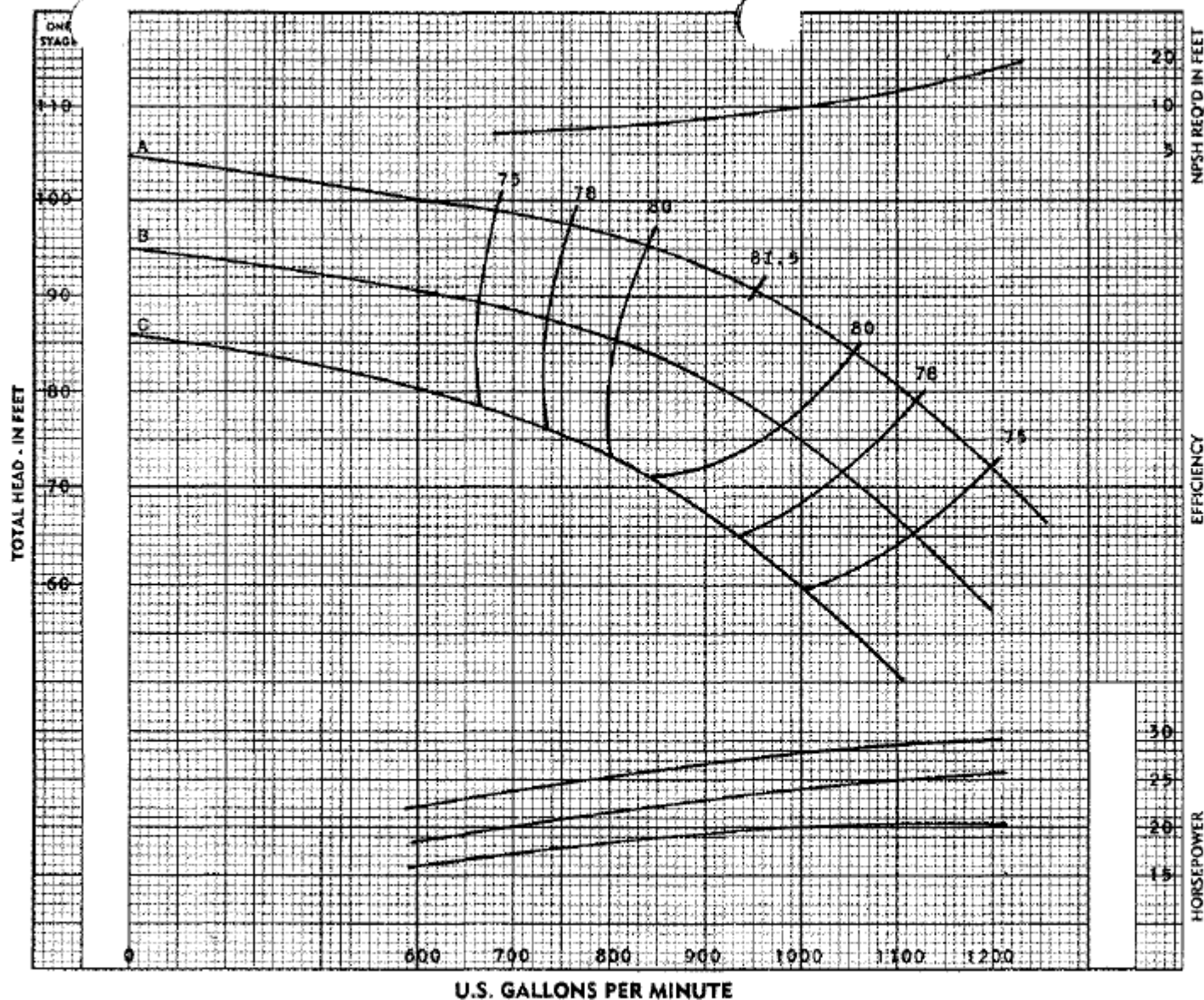


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

12GM-950
DESIGN

1760
R.P.M.

SECTION N
PAGE 124
DATE 12-21-90

IMPELLER DATA

TRIM DIAMETER: A 10.0 ", B 9.563 ", C 9.125 ", -- ", -- ", -- "

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 20.04 sq. inches NUMBER OF IMPELLER VANES SEVEN

THRUST CONSTANT (K) 8.5 Lbs./Ft. WR_2 (See Note 6) 1.282 Lbs./Ft.2 MAXIMUM SPHERE SIZE 19/32

IMPELLER EYE FLUID VELOCITY CONSTANT (K_v) .016 IMPELLER PERIPHERAL SPEED CONSTANT (N_1) 7.72 (Ft/Sec) -- (Ft/Min)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 11-5/8 ", MINIMUM DIAMETER = 11-9/16 ", BELL DIAMETER -- ", MIN. BELL DIAMETER -- "

MAXIMUM NO. STAGES (Std. Constr.) 6 MAXIMUM HEAD (Std. Constr.) 577 Ft

DIAMETER IMPELLER SHAFT 1-11/16 ", MINIMUM IMPELLER SHAFT THREADS 14 "

LATERAL (See explanation below)* NOMINAL -- ", MINIMUM -- ", STANDARD 3/4 ", MAXIMUM 7/8 "

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

FORMULAS: HYDRAULIC THRUST=K Factor x Laboratory Head in feet= 8.5 Lbs

IMPELLER PERIPHERAL SPEED (U_2)= N_1 Constant x Impeller Diameter 7.72 Ft/Sec or -- Ft/Min

IMPELLER EYE FLUID VELOCITY (V_2)= K_v Constant x GPM= .016 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	25-5/8	21-15/16	9-1/2	11-5/8	-	3-3/16	-	-	24	-	-	-	-	-	-

