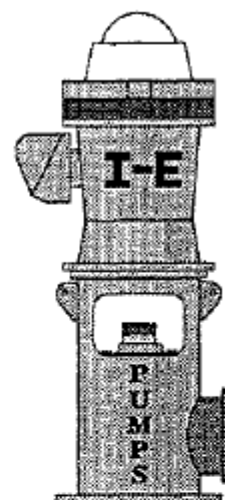
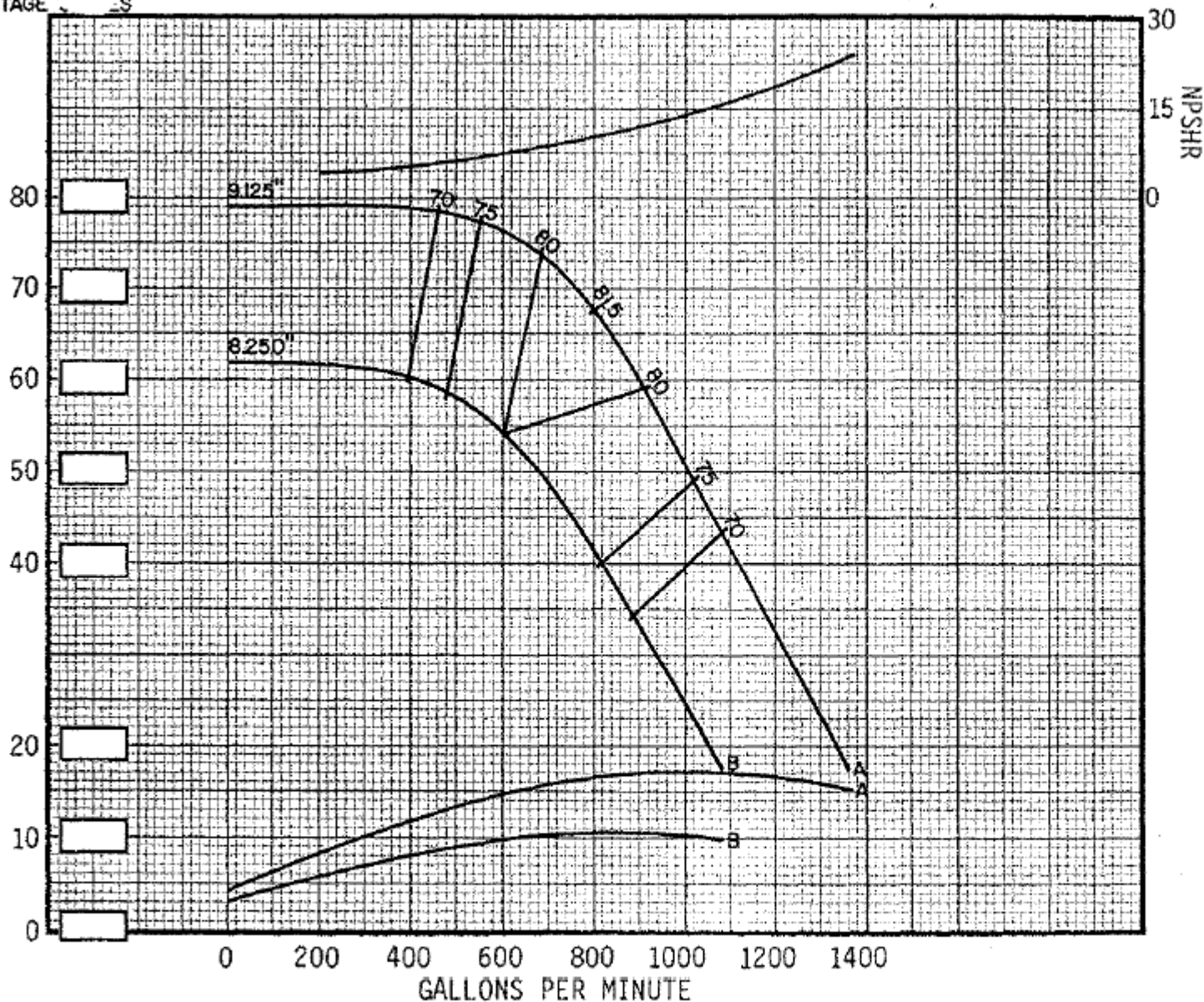


ONE
STAGE

HEAD IN FEET

HORSEPOWER



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

(719) 852-5174

SECTION N
PAGE 226
DATE 10-11-90

I-E
"TOP-O-THE LINE"

12GM-800
DESIGN

1770
R.P.M.

IMPELLER DATA

TRIM DIAMETER: A 9.125 " B 8.250 " C " " " "
One stage deduct -4 % 2 stage deduct -3 % 3 stage deduct -2 %
EFFICIENCY CORRECTION: stage add % stage add % stage add %
EFFECTIVE IMPELLER EYE AREA 20.95 sq. inches NUMBER OF IMPELLER VANES
THRUST CONSTANT (K) 7.0 Lbs./Ft. WR^2 (See Note 4) .651 Lbs. Ft.² MAXIMUM SPHERE SIZE .875 "
IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) IMPELLER PERIPHERAL SPEED CONSTANT (N_e) (Ft./Sec.) (Ft./Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 11.625 ", MINIMUM DIAMETER - 11.375 ", BELL DIAMETER 13.875 ", MIN. BELL DIAMETER 12.875 "
 MAXIMUM NO. STAGES (Std. Constr.) 5 MAXIMUM HEAD (Std. Constr.) 797 Ft.
 DIAMETER IMPELLER SHAFT 1.6875 " 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 = 345 Lbs.

IMPELLER PERIPHERAL SPEED (U_2) = N_1 Constant $\times$ Impeller Diameter _____ Ft./Sec. or _____ Ft./Min.

IMPELLER EYE FLUID VELOCITY (V) = K 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

[illegible]