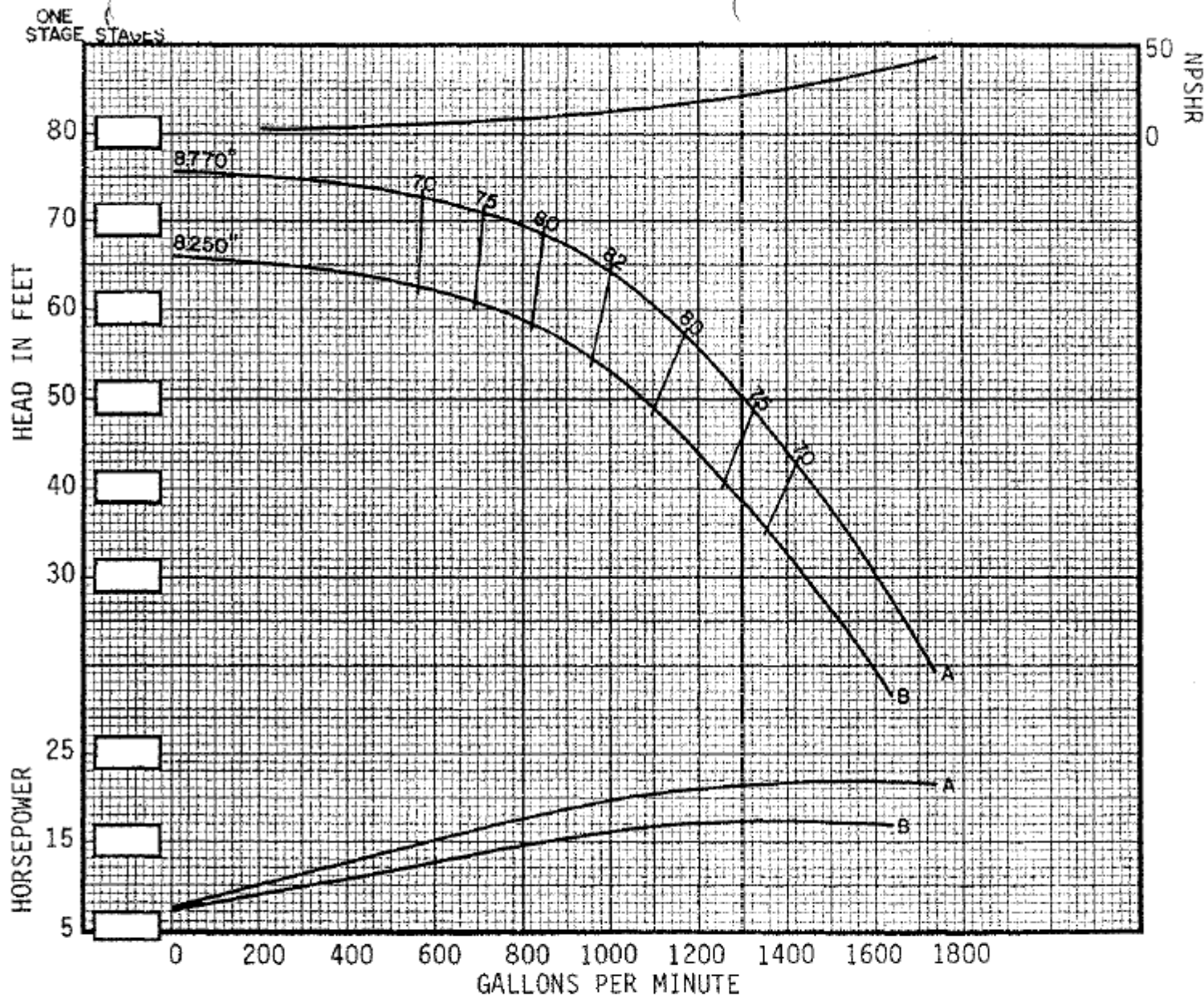


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

11EH-1000
DESIGN

1770
R.P.M.

SECTION N
PAGE 219
DATE 10-11-90

IMPELLER DATA

TRIM DIAMETER: A 8.770 " B 8.250 " C " \ " "
 One stage deduct -3 %, 2 stage deduct -2 %, 3 stage deduct -1 %.
 EFFICIENCY CORRECTION: stage add %, stage add %, stage add %.
 EFFECTIVE IMPELLER EYE AREA 20.34 sq. inches NUMBER OF IMPELLER VANES
 THRUST CONSTANT (K) 7.8 Lbs./Ft. WR^2 (See Note *) 532 Lbs. Ft.² MAXIMUM SPHERE SIZE 875 "
 IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) IMPELLER PERIPHERAL SPEED CONSTANT (N_1) (Ft./Sec.) (Ft./Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 10.875 " MINIMUM DIAMETER 10.625 " BELL DIAMETER 13.875 " MIN. BELL DIAMETER 12.875 "
 MAXIMUM NO. STAGES (Std. Constr.) 5 MAXIMUM HEAD (Std. Constr.) 705 Ft.
 DIAMETER IMPELLER SHAFT 1.500 " MINIMUM IMPELLER SHAFT THREADS 1 "
 LATERAL (See explanation below) * NOMINAL " MINIMUM " STANDARD .937 " MAXIMUM "
 WEAR RING CLEARANCE (Nominal) .012 " SHAFT / BEARING CLEARANCE (Nominal) .007 "

FORMULAS: HYDRAULIC THRUST = K Factor x Laboratory Head in feet = 305 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 @ = 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	25.6875	29.4375	9.875	10.875	13.875										

