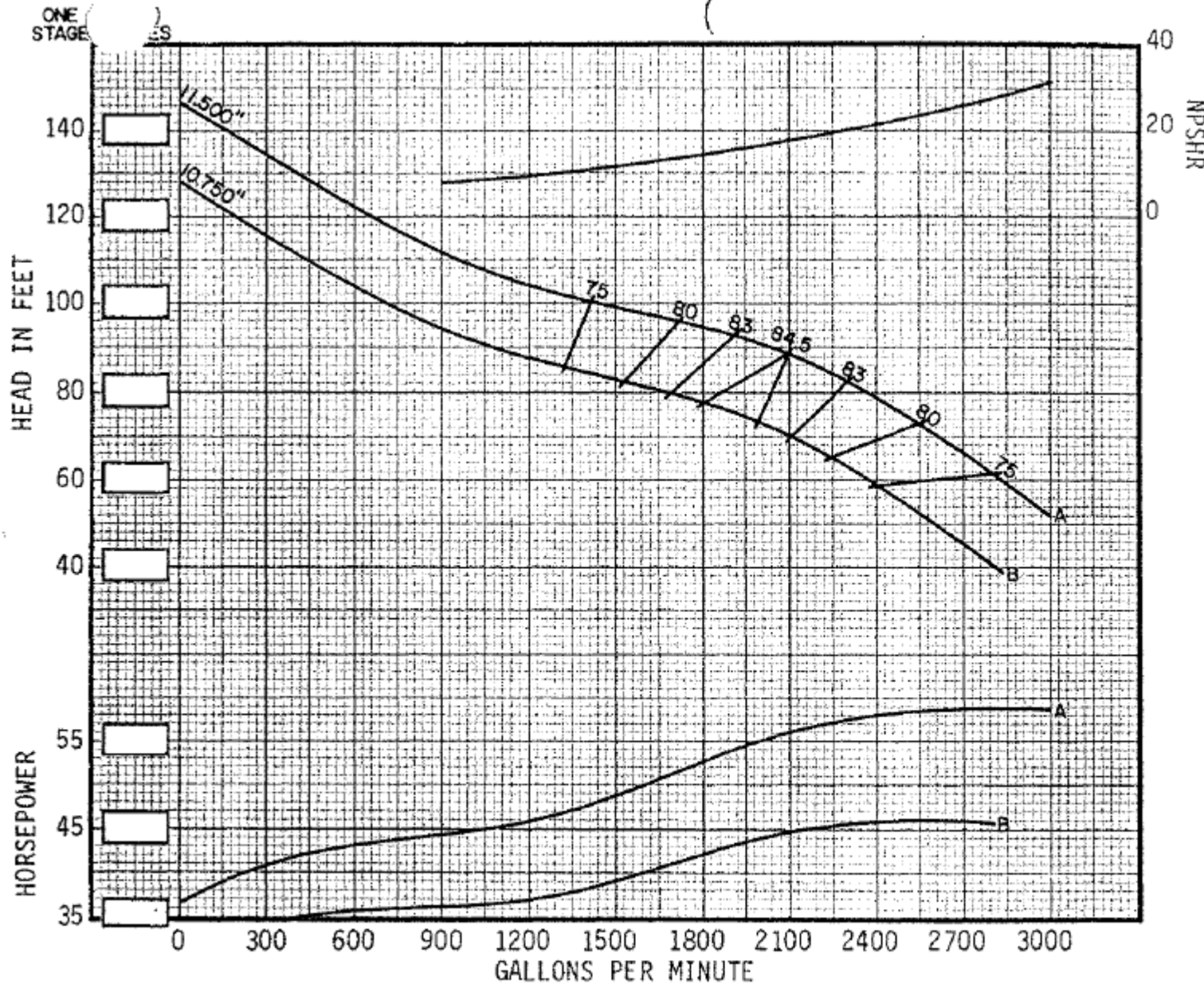


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

14CM-2100
DESIGN

1770
R.P.M.

SECTION N
PAGE 237
DATE 10-11-90

IMPELLER DATA

TRIM DIAMETER: A 11.500 " B 10.750 " C " " " "
One stage deduct -2 % 2 stage deduct -1 % 3 stage deduct 0 %
EFFICIENCY CORRECTION: stage add % stage add % stage add %
EFFECTIVE IMPELLER EYE AREA 48.23 sq. inches NUMBER OF IMPELLER VANES
THRUST CONSTANT (K) 17.9 Lbs./Ft. WR^2 (See Note #) 2.182 Lbs. Ft.² MAXIMUM SPHERE SIZE 1.312 "
IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) IMPELLER PERIPHERAL SPEED CONSTANT (N_e) (Ft./Sec.) (Ft./Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 14 ", MINIMUM DIAMETER = 13.75 ", BELL DIAMETER 18.125 ", MIN. BELL DIAMETER 17.125 ".
 MAXIMUM NO. STAGES (Std. Constr.) 3 MAXIMUM HEAD (Std. Constr.) 654 Ft.
 DIAMETER IMPELLER SHAFT 2.1875 " MINIMUM IMPELLER SHAFT THREADS 1 "
 LATERAL (See explanation below)* NOMINAL " MINIMUM " STANDARD 1.000 " MAXIMUM "
 WEAR RING CLEARANCE (Nominal) " SHAFT / BEARING CLEARANCE (Nominal) "
 FORMULAS: HYDRAULIC THRUST = K Factor x Laboratory Head in feet = 283 Lbs.
 IMPELLER PERIPHERAL SPEED (U_2) = N_1 Constant x Impeller Diameter _____ Ft./Sec. or _____ Ft./Min.
 IMPELLER EYE FLUID VELOCITY (V_1) = K. Constant x GPM = _____ Ft./Sec.

A - Length one-stage assembly / threaded suction
 B - Length one-stage assembly / bell suction
 C - Additional stage length
 D - Bowl diameter

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]