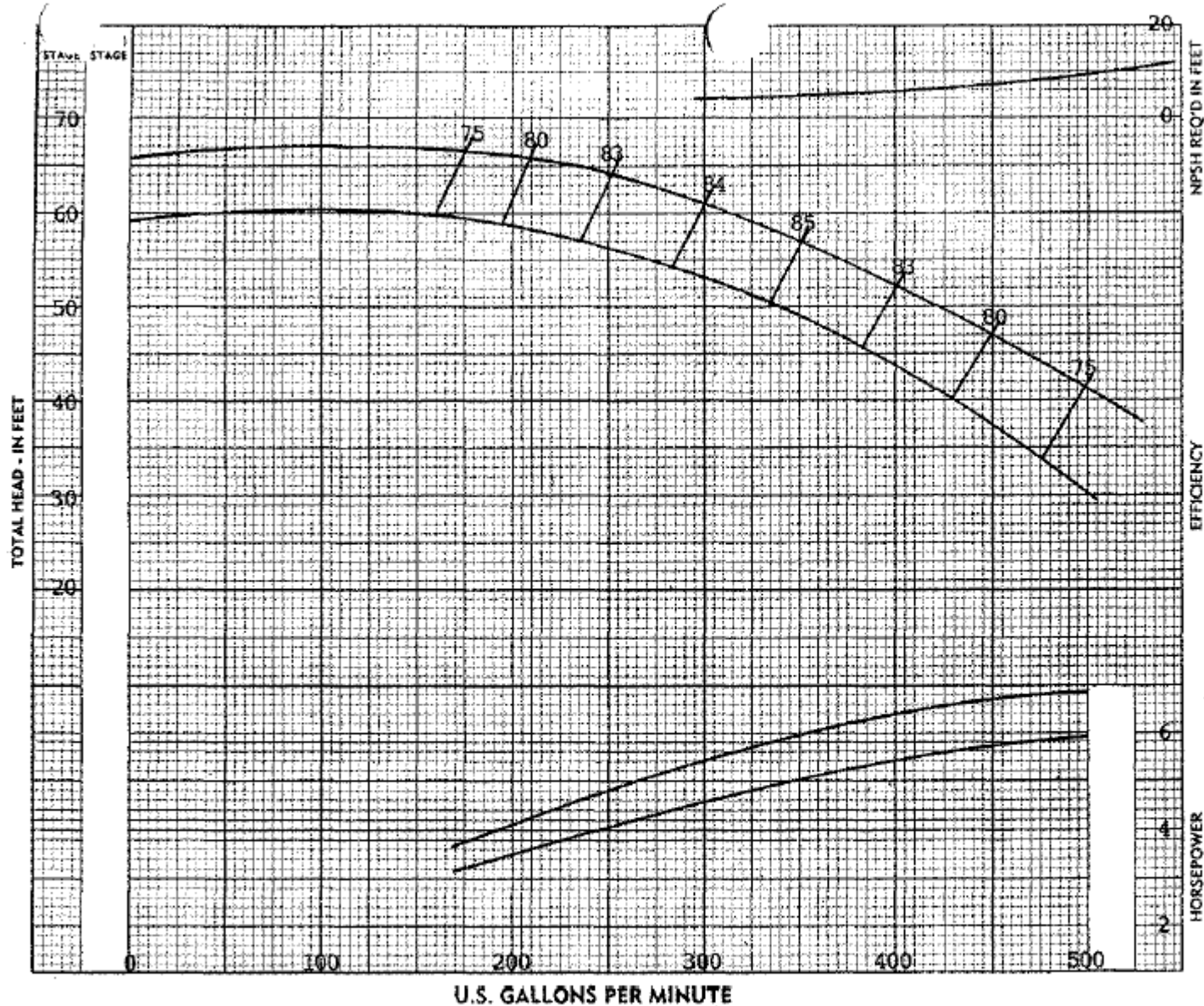


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

10KH-350

DESIGN

1770

R.P.M.

SECTION N
PAGE 111
DATE 03-25-91

IMPELLER DATA

TRIM DIAMETER: A 7.703 " B 7.375 " 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 9.74 sq. inches NUMBER OF IMPELLER VANES _____
 THRUST CONSTANT (K) 4.5 Lbs./Fr. WR^2 (See Note *) .303 Lbs. Fr.² MAXIMUM SPHERE SIZE _____ "
 IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) _____ IMPELLER PERIPHERAL SPEED CONSTANT (N_i) _____ (Fr./Sec.) _____ (Fr./Min.) _____

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 95 ", MINIMUM DIAMETER = 9.25 ", BELL DIAMETER 11.375 ", MIN. BELL DIAMETER 10.375 "
 MAXIMUM NO. STAGES (Std. Constr.) 5 MAXIMUM HEAD (Std. Constr.) 642 Ft.
 DIAMETER IMPELLER SHAFT 1500 ", MINIMUM IMPELLER SHAFT THREADS 1 "
 LATERAL (See explanation below)* NOMINAL ", MINIMUM ", STANDARD .750 ", MAXIMUM "
 WEAR RING CLEARANCE (Nominal) .012 ", SHAFT / BEARING CLEARANCE (Nominal) .007 "
 FORMULAS: HYDRAULIC THRUST = K Factor x Laboratory Head in feet = 278 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. WR² 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

- 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]