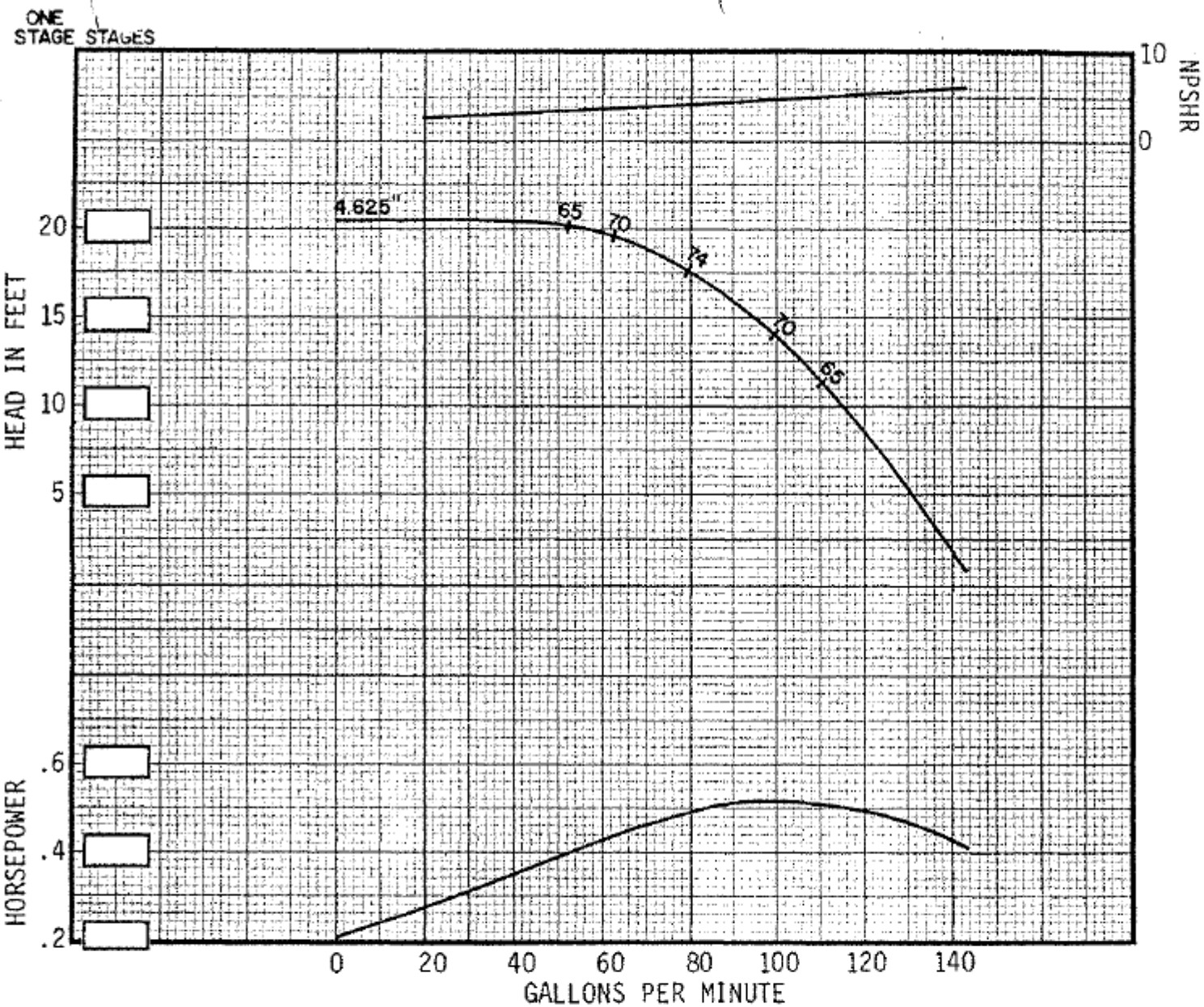
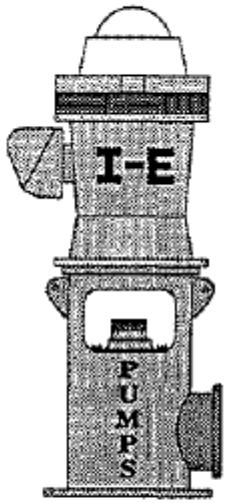




1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E

"TOP-O-THE LINE"

6CM-80	1770
DESIGN	R.P.M.

SECTION N
PAGE 200
DATE 10-11-90

IMPELLER DATA

TRIM DIAMETER: A 4.625 ", B _____ ", 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 4.977 sq. inches NUMBER OF IMPELLER VANES _____
THRUST CONSTANT (K) 2.34 Lbs./Ft. WR^2 (See Note #) 0.037 Lbs. $Ft.^2$ MAXIMUM SPHERE SIZE 0.312 ".
IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) _____ IMPELLER PERIPHERAL SPEED CONSTANT (N_i) _____(Ft./Sec.) _____(Ft/Min.)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER : 5.875 ", MINIMUM DIAMETER * _____ ", BELL DIAMETER 9.5 " MIN. BELL DIAMETER _____ ".
MAXIMUM NO. STAGES (Std. Constr.) 45 MAXIMUM HEAD (Std. Constr.) 788 Ft.
DIAMETER IMPELLER SHAFT 1 ". MINIMUM IMPELLER SHAFT THREADS 3/4 ".
LATERAL (See explanation below)* NOMINAL _____ ", MINIMUM _____ ", STANDARD .562 ", MAXIMUM _____ ".
WEAR RING CLEARANCE (Nominal) .012 ", SHAFT / BEARING CLEARANCE (Nominal) .007 ".
FORMULAS: HYDRAULIC THRUST = K Factor x Laboratory Head in feet = _____ Lbs.
IMPELLER PERIPHERAL SPEED (U_2) = N_i 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	15.9375	18.4375	4.9375	5.875	9.5										

