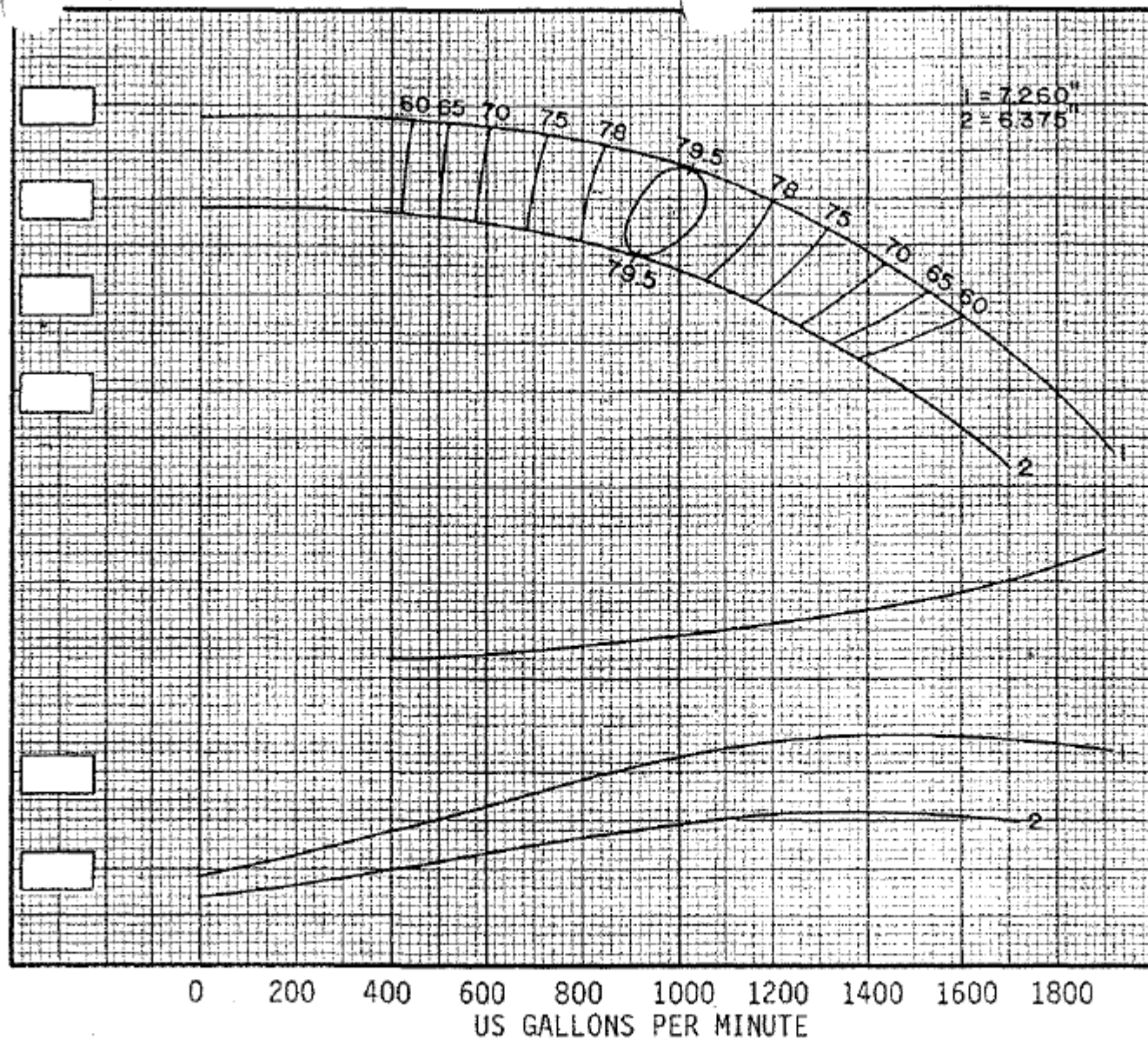


ONE
STAGE PUMPS

HEAD IN FEET

HORSEPOWER

200
150
100
50
0
50
25
0



NPSHR

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

(719) 852-5174

I-E

"TOP-O-THE LINE"

10TH-1020
DESIGN

3450
R.P.M.

SECTION 0
PAGE 819
DATE 4-18-91

IMPELLER DATA

TRIM DIAMETER: A 7.260 ", B 6.375 ", C -- ", -- ", -- ", -- "

One stage deduct 3 %, two stage deduct 2 %, three stage deduct 1 %

EFFICIENCY CORRECTION: 4 stage add 0 %, -- stage add -- %, -- stage add -- %

EFFECTIVE IMPELLER EYE AREA 12.68 sq. inches NUMBER OF IMPELLER VANES --

THRUST CONSTANT (K) 5.7 Lbs./Ft. WR_2 (See Note 6) .248 Lbs./Ft.² MAXIMUM SPHERE SIZE .875

IMPELLER EYE FLUID VELOCITY CONSTANT (K_v) -- IMPELLER PERIPHERAL SPEED CONSTANT (N_1) -- (Ft/Sec) -- (Ft/Min)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 9 ", MINIMUM DIAMETER = -- ", BELL DIAMETER 11.375 ", MIN. BELL DIAMETER -- "

MAXIMUM NO. STAGES (Std. Constr.) 4 MAXIMUM HEAD (Std. Constr.) 679 Ft

DIAMETER IMPELLER SHAFT 1.5 ", 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=-- Lbs

IMPELLER PERIPHERAL SPEED (U_2)= N_1 Constant x Impeller Diameter -- Ft/Sec or -- Ft/Min

IMPELLER EYE FLUID VELOCITY (V_e)= K_v 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	23.875	--	8.5	9	--	3.5	--	--	15	--	--	--	--	--	--

