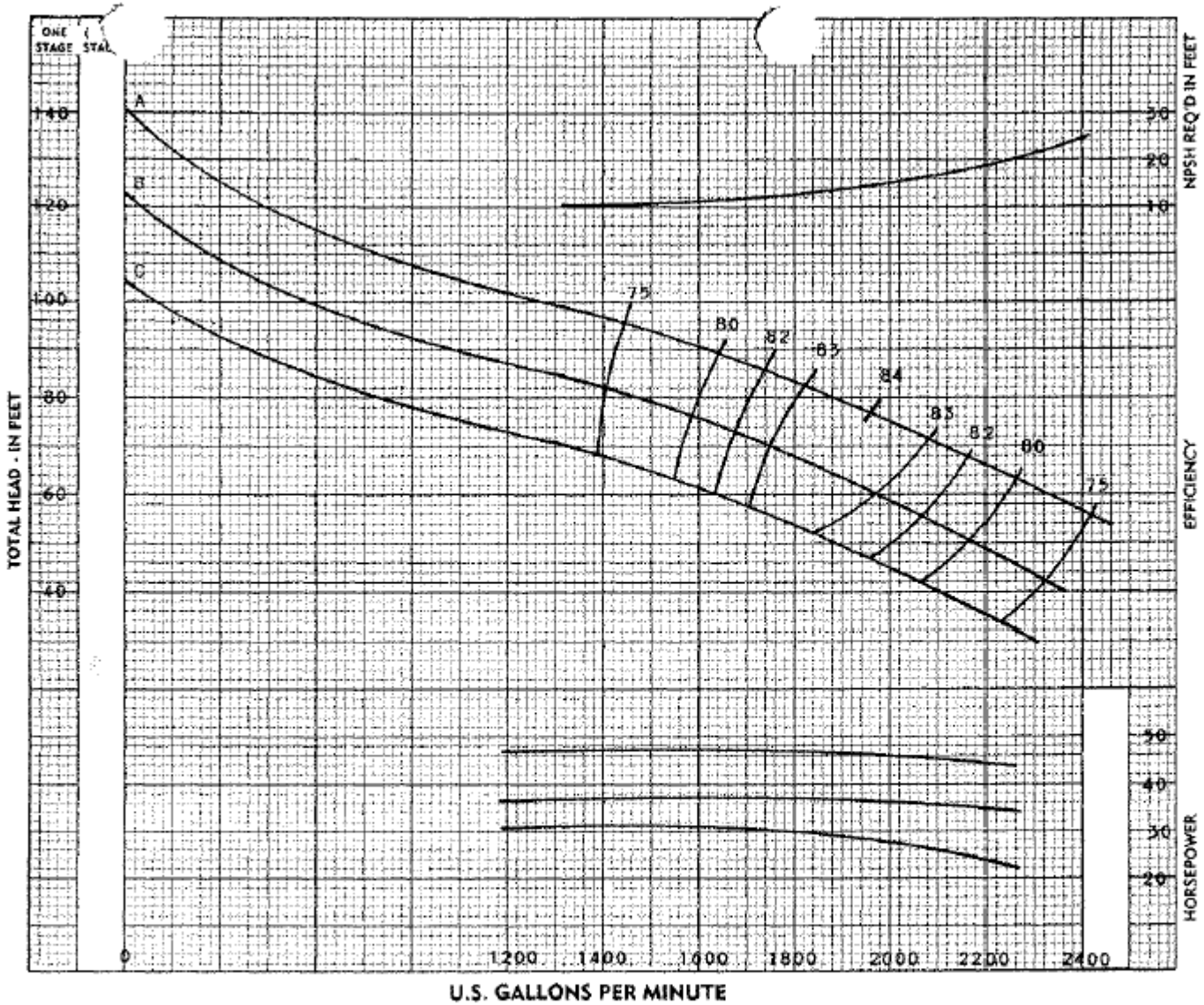


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

14AL-1960
DESIGN

1770
R.P.M.

SECTION N
PAGE 136
DATE 12-20-90

14AL-1960

IMPELLER DATA

TRIM DIAMETER: A 11.500 ", B 10.875 ", C 10.400 ", -- ", — ", — "

One stage deduct 4 %, two stage deduct 2 %, -- stage deduct -- %

EFFICIENCY CORRECTION: 6 stage add 1 %, 8 stage add 1.5 %, — stage add — %

EFFECTIVE IMPELLER EYE AREA 41.2 sq. inches NUMBER OF IMPELLER VANES FOUR (4)

THRUST CONSTANT (K) 19.4 Lbs./Ft. WR_2 4.15 Lbs./Ft.2 MAXIMUM SPHERE SIZE 1-1/4

IMPELLER EYE FLUID VELOCITY CONSTANT (K_e) .0077 IMPELLER PERIPHERAL SPEED CONSTANT (N_i) 7.73 (Ft/Sec) 463.8 (Ft/Min)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 14 ", MINIMUM DIAMETER = 13-7/8 ", BELL DIAMETER 18-3/8 ", MIN. BELL DIAMETER 18-3/8 "

MAXIMUM NO. STAGES (Std. Constr.) 20 MAXIMUM HEAD (Std. Constr.) 580 Ft

DIAMETER IMPELLER SHAFT 2-3/16 ", MINIMUM IMPELLER SHAFT THREADS 1-1/2 "

LATERAL NOMINAL .750 ", MINIMUM .625 ", STANDARD .700 ", MAXIMUM 1.000 "

WEAR RING CLEARANCE (Nominal) .016 ", SHAFT/BEARING CLEARANCE (Nominal) .007

NOMINAL SHAFT PROJECTION = 14"

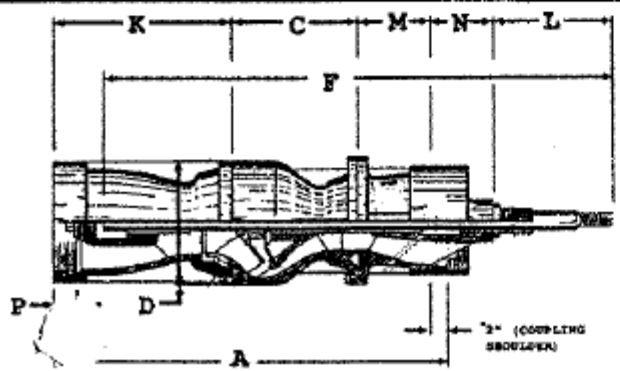
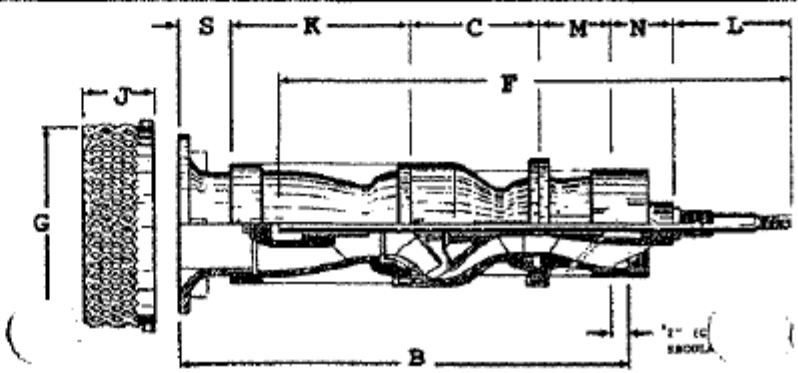
NOMINAL TUBE PROJECTION = 6"

DIMENSIONS

A- LENGTH ONE STAGE ASSEMBLY
B- LENGTH ONE STAGE ASSEMBLY/BELL SUCTION
C- ADDITIONAL STAGE LENGTH
D- BOWL DIAMETER
E- BELL DIAMETER
F- SHAFT LENGTH
G- O.D. BELL SUCTION STRAINER
J- BASKET LENGTH BELOW BELL LIP

K- SUCTION CASE LENGTH
L- SHAFT PROJECTION (STICK UP)
*M- TOP BOWL LENGTH (FLANGE TO COUPLING BUTT)
N- TUBE PROJECTION (STICK UP)
P- SUCTION CASE (OR COUPLING) THREAD ENGAGEMENT
S- BELL SUCTION DROP

** ADD 2" TO "M" DIMENSION TO OBTAIN FLANGE TO PIPE BUTT DIMENSION.*

FURTHER ENGINEERING DATA AVAILABLE UPON REQUEST

DIMENSION	A	B	C	D	E	F	G	J	K	L	M	N	P	R	S
INCHES	38-5/8	42-5/8	13-3/8	14	18-3/8	50-3/8	19-5/8	10	16	8	7-1/4	6	2-1/2	-	4