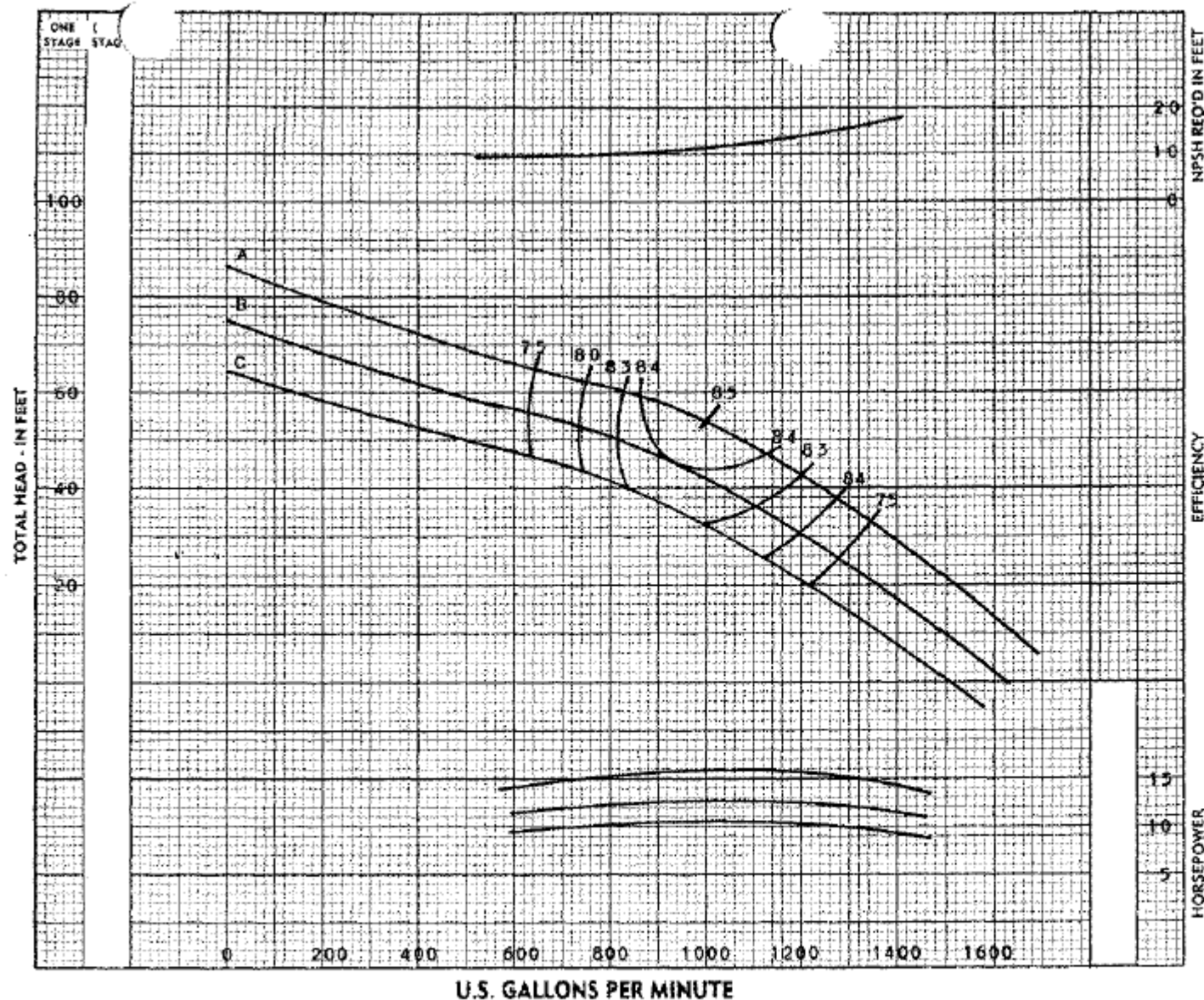


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

12AL-1000
DESIGN

1770
R.P.M.

SECTION N
PAGE 128
DATE 10-11-90

TRIM DIAMETER: A 9.188 ", B 8.812 ", C 8.437 ", -- " , -- " , -- "

One stage deduct 3 % , three stage deduct 1 % , -- stage deduct -- %

EFFICIENCY CORRECTION: 5 stage add 0 % , -- stage add -- % , -- stage add -- %

EFFECTIVE IMPELLER EYE AREA 25.5 sq. inches NUMBER OF IMPELLER VANES FIVE (5)

THRUST CONSTANT (K) 11.7 Lbs./Ft. WR_2 1.20 Lbs./Ft.² MAXIMUM SPHERE SIZE 3/4

IMPELLER EYE FLUID VELOCITY CONSTANT (K_v) .013 IMPELLER PERIPHERAL SPEED CONSTANT (N_v) 7.73 (Ft/Sec) 463.8 (Ft/Min)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 11-3/8 " , MINIMUM DIAMETER = 11-1/4 " , BELL DIAMETER 14 " , MIN. BELL DIAMETER 14 "

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

DIAMETER IMPELLER SHAFT 1-15/16 " , MINIMUM IMPELLER SHAFT THREADS 1-3/16 "

LATERAL NOMINAL .625 " , MINIMUM .500 " , STANDARD .560 " , MAXIMUM .800 "

WEAR RING CLEARANCE (Nominal) .014 " , 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	18-5/8 12.0	14	18-3/8	45	19-5/8	10	16	8	7-1/4	6	2-1/2	-	4

