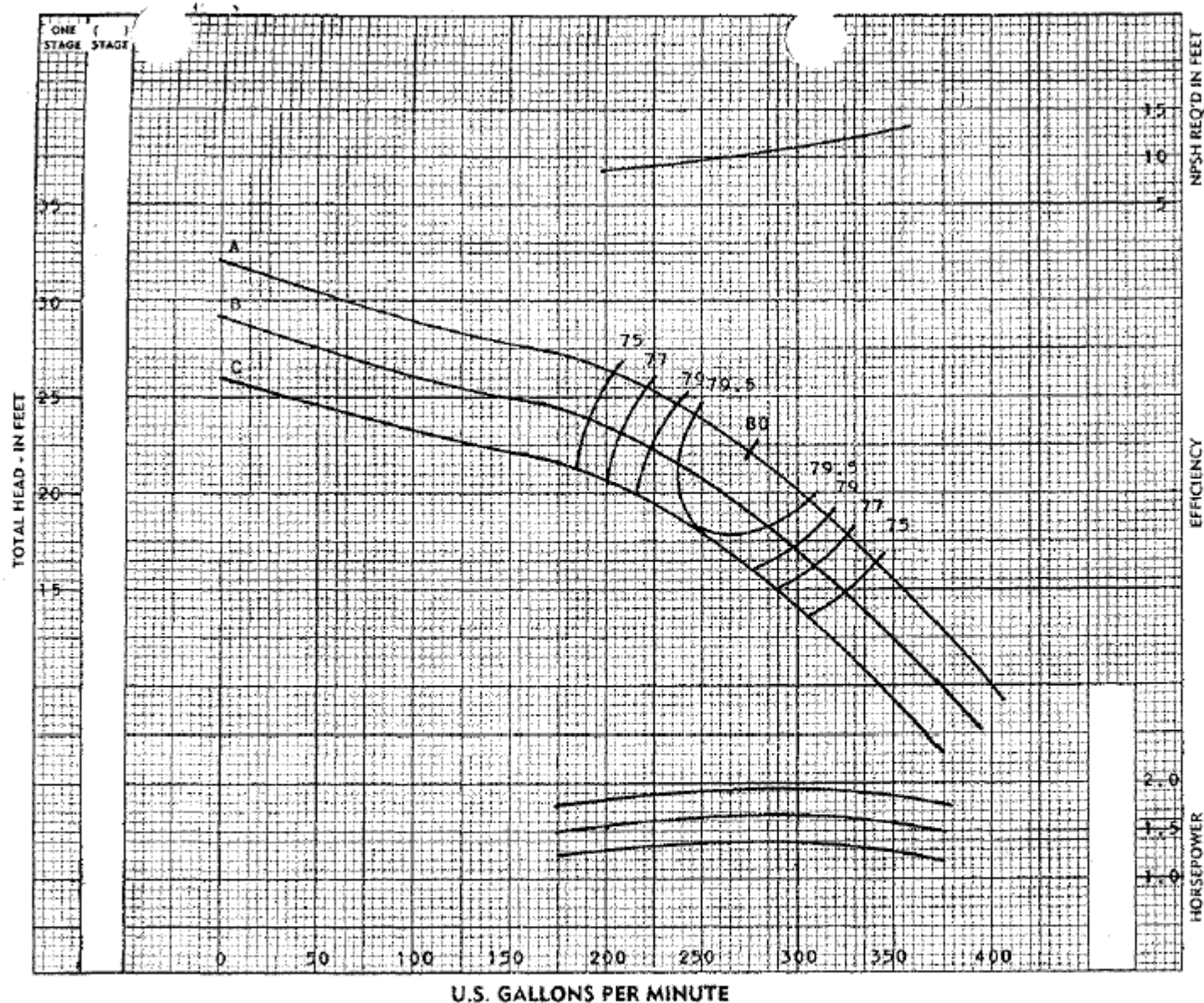


1567 E. HWY. 160
P.O. BOX 112
MONTE VISTA
COLORADO 81144

(719) 852-5174

I-E
"TOP-O-THE LINE"

8AL-275
DESIGN

1750
R.P.M.

SECTION N
PAGE 107
DATE 12-19-90

IMPELLER DATA

TRIM DIAMETER: A 5.969 ", B 5.750 ", C 5.469 ", -- " , -- " , -- "

One stage deduct 2 % , two stage deduct 1 % , -- stage deduct -- %

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

EFFECTIVE IMPELLER EYE AREA 10.4 sq. inches NUMBER OF IMPELLER VANES FIVE (5)

THRUST CONSTANT (K) 7.6 Lbs./Ft. WR₂ 0.160 Lbs./Ft.2 MAXIMUM SPHERE SIZE 9/16

IMPELLER EYE FLUID VELOCITY CONSTANT (K₁) .030 IMPELLER PERIPHERAL SPEED CONSTANT (N₁) 7.65 (Ft/Sec) 459.0 (Ft/Min)

BOWL ASSEMBLY DATA

NOMINAL DIAMETER = 7-1/2 ", MINIMUM DIAMETER = 7-7/16 ", BELL DIAMETER 11.50 ", MIN. BELL DIAMETER 11.50 "

MAXIMUM NO. STAGES (Std. Constr.) 35 MAXIMUM HEAD (Std. Constr.) 810 Ft

DIAMETER IMPELLER SHAFT 1-3/16 ", MINIMUM IMPELLER SHAFT THREADS 3/4 "

LATERAL NOMINAL .437 ", MINIMUM .310 ", STANDARD .375 ", MAXIMUM .687 "

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	20-3/8	22-7/8	6-1/2	7-1/2	11-1/2	33-3/8	12-3/4	6	6-7/8	8	5	6	2	-	2-1/2

