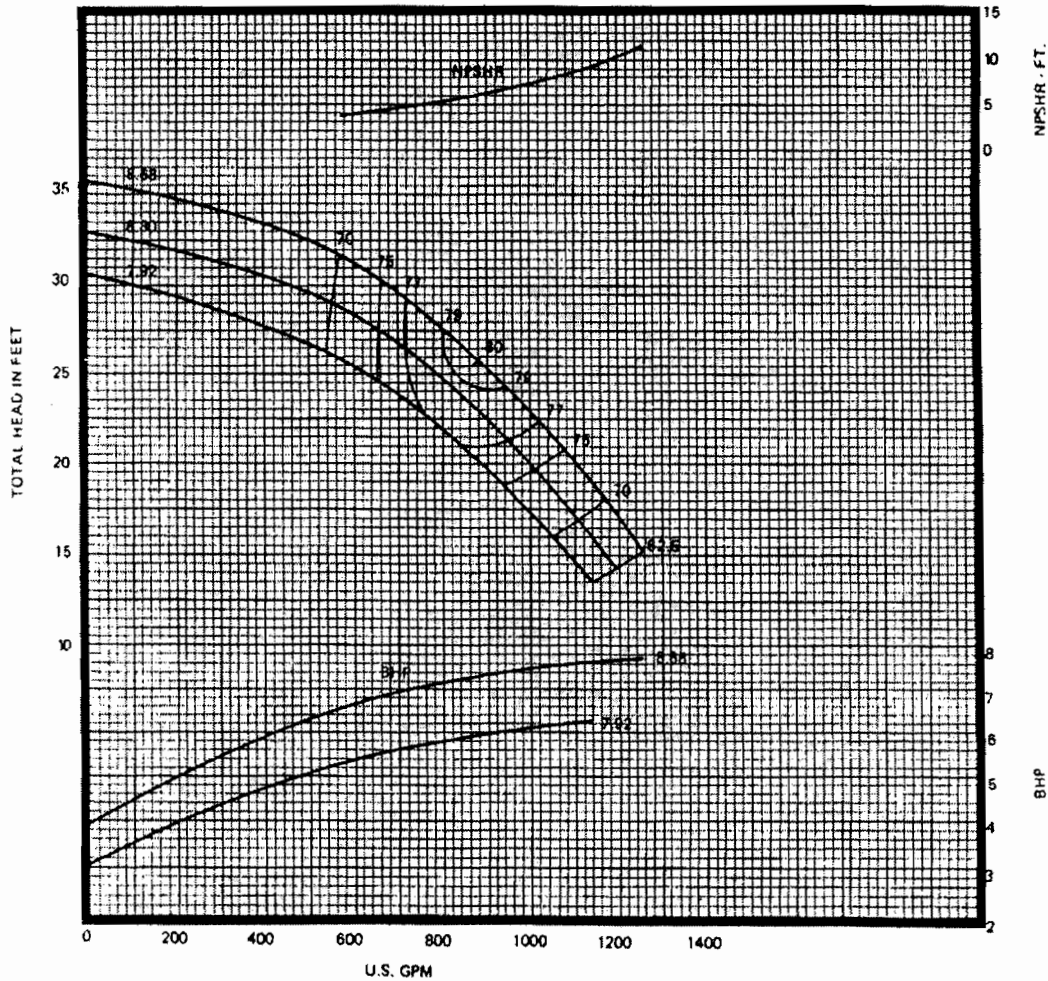


VERTICAL TURBINE PUMPS SINGLE STAGE PERFORMANCE



**12H
7000
1170
RPM**

ENCLOSED
IMPELLER
T9EB99A

EFFICIENCY CORRECTIONS⁽¹⁾

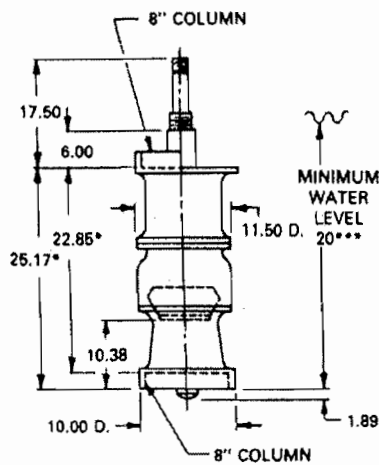
NUMBER OF STAGES	EFFICIENCY CHANGE
1	-3.0 POINTS
2	-2.0 POINTS
3	-1.0 POINTS
4	NO CHANGE
5	NO CHANGE
5 OR MORE	NO CHANGE

BOWL MATERIAL	EFFICIENCY CHANGE
CAST IRON	-1.0 POINTS
EPOXIED C.I.	NO CHANGE

IMPELLER MATERIAL	EFFICIENCY CHANGE
CAST IRON	-1.0 POINTS
BRONZE	NO CHANGE
EPOXIED C.I.	NO CHANGE

(1) Refer to "Application and Reference Data" for head correction.

DIMENSIONS (Inches)



*Add 9.75 for each additional stage

TECHNICAL DATA

DATA	VALUE
MAXIMUM OPERATING SPEED	2250 RPM
MAXIMUM NUMBER OF STAGES	21**
PUMP SHAFT DIAMETER	1 1/4 IN.
IMPELLER EYE AREA	26.63 SQ. IN.
MAXIMUM SPHERE SIZE	.68 IN.
K _t (THRUST FACTOR)	8.44 LBS./FT.
K _r (ROTOR WT. PER STAGE)	15.1 LBS.
BOWL WT. (FIRST STAGE)	310 LBS.
BOWL WT. (EACH ADD'L. STAGE)	130 LBS.
ALLOWABLE SHAFT STRETCH	1.22 IN.**
WK ² (FIRST STAGE)	1.77 LBS.-FT. ²
WK ² (EACH ADD'L. STAGE)	1.75 LBS.-FT. ²
BOWL RING CLEARANCE	.009-.014 IN.

** These are nominal values. Refer to "Application and Reference Data" for information further limiting or extending these values.

*** This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

FAIRBANKS MORSE PUMPS