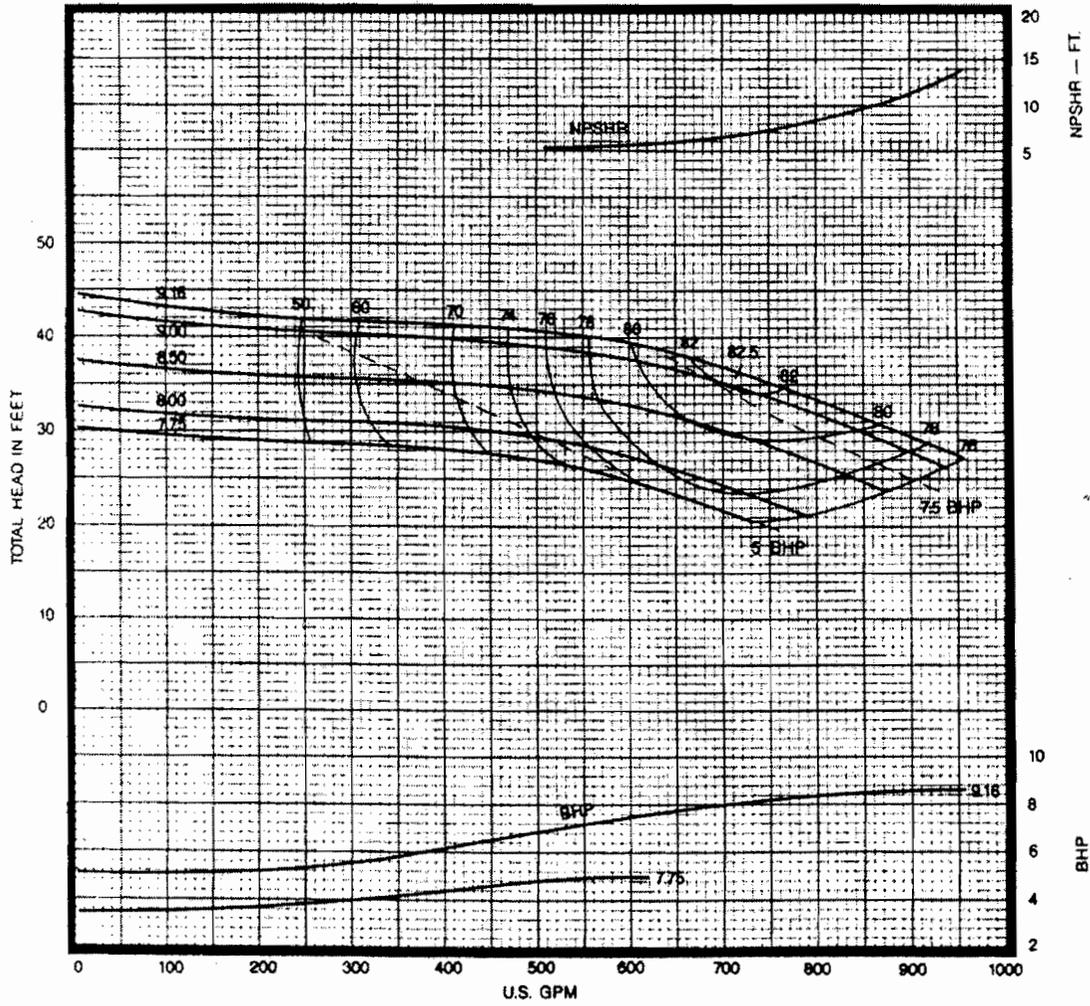


# VERTICAL TURBINE PUMPS SINGLE STAGE PERFORMANCE



**12M  
7000  
1180  
RPM**

ENCLOSED  
IMPELLER  
T7EA92

### EFFICIENCY CORRECTIONS<sup>(1)</sup>

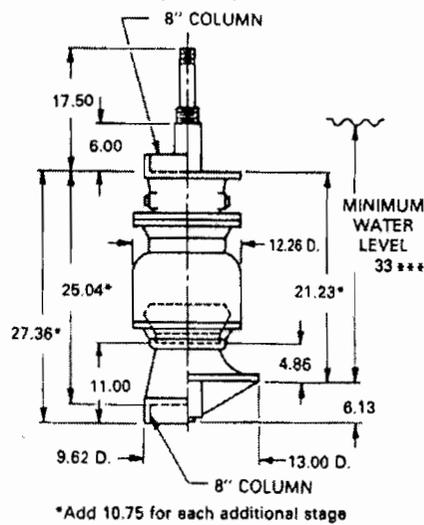
NUMBER OF STAGES	EFFICIENCY CHANGE
1	-2.5 POINTS
2	-1.5 POINTS
3	-0.5 POINTS
4	NO CHANGE
5	NO CHANGE
6 OR MORE	NO CHANGE

BOWL MATERIAL	EFFICIENCY CHANGE
CAST IRON	-2.0 POINTS
ENAMELED C.I.	NO CHANGE

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

<sup>(1)</sup> Refer to "Application and Reference Data" for head correction.

### DIMENSIONS (Inches)



\*Add 10.75 for each additional stage

### TECHNICAL DATA

DATA	VALUE
MAXIMUM OPERATING SPEED	2300 RPM
MAXIMUM NUMBER OF STAGES	19**
PUMP SHAFT DIAMETER	1 1/16 IN.
IMPELLER EYE AREA	19.40 SQ. IN.
MAXIMUM SPHERE SIZE	94 IN.
K <sub>t</sub> (THRUST FACTOR)	6.33 LBS./FT.
K <sub>r</sub> (ROTOR WT. PER STAGE)	29.50 LBS.
BOWL WT. (FIRST STAGE)	290 LBS.
BOWL WT. (EACH ADD'L. STAGE)	105 LBS.
ALLOWABLE SHAFT STRETCH	.92 IN.**
WK <sup>2</sup> (FIRST STAGE)	1.62 LBS.-FT. <sup>2</sup>
WK <sup>2</sup> (EACH ADD'L. STAGE)	1.57 LBS.-FT. <sup>2</sup>
BOWL RING CLEARANCE	.014/.018 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**