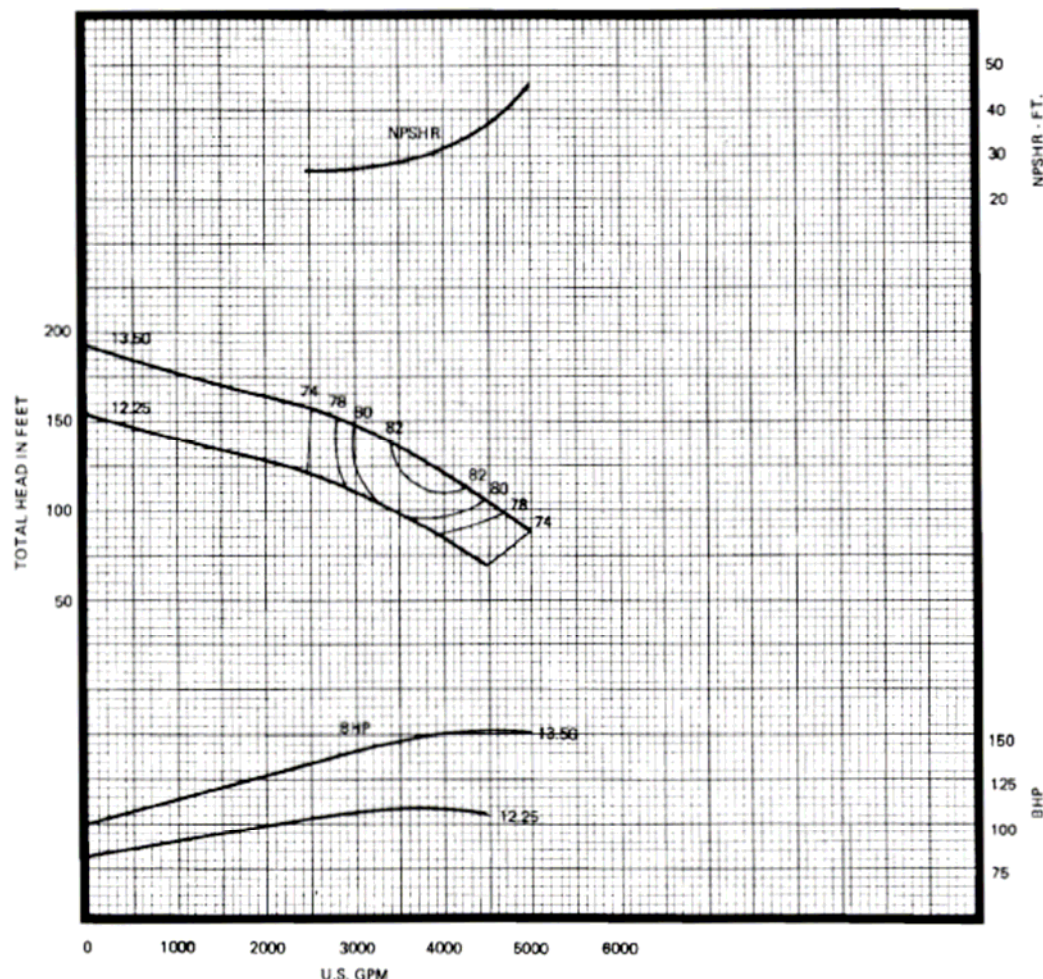


VERTICAL TURBINE PUMPS SINGLE STAGE PERFORMANCE

55



**18HC
6920**

**1770
RPM**

IMPELLER
T5KA99

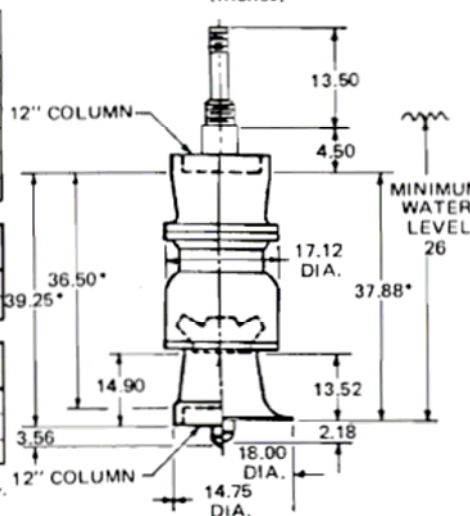
EFFICIENCY CORRECTIONS (1)

NUMBER OF STAGES	EFFICIENCY CHANGE
1	- 2.0 POINTS
2	- 1.0 POINTS
3	NO CHANGE
4	NO CHANGE
5	NO CHANGE
6 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

DIMENSIONS (Inches)



TECHNICAL DATA

DATA	VALUE
MAXIMUM OPERATING SPEED	2000 RPM
MAXIMUM NUMBER OF STAGES	5**
PUMP SHAFT DIAMETER	2 ⁷ / ₁₆ IN.
IMPELLER EYE AREA	59.0 SQ. IN.
MAXIMUM SPHERE SIZE	1.13 IN.
K ₁ (THRUST FACTOR)	23 LBS./FT.
K ₂ (ROTOR WT. PER STAGE)	50 LBS.
BOWL WT. (FIRST STAGE)	780 LBS.
BOWL WT. (EACH ADD'L. STAGE)	360 LBS.
ALLOWABLE SHAFT STRETCH	.94 IN.**
WK ² (FIRST STAGE)	10.40 LBS.-FT. ²
WK ² (EACH ADD'L. STAGE)	10.07 LBS.-FT. ²
BOWL RING CLEARANCE	.014/.020 IN.

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

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

*Add 14.12 for each additional stage.

FAIRBANKS MORSE PUMPS