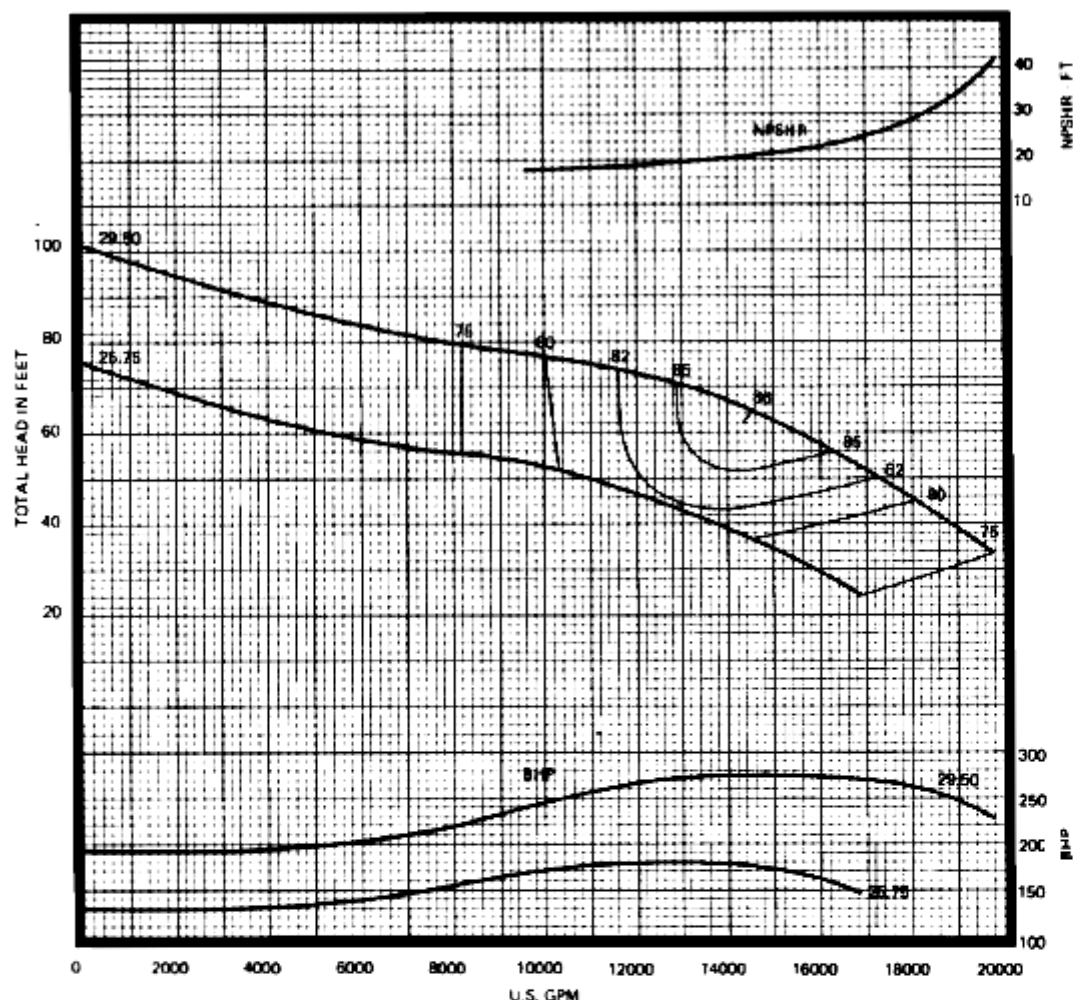


VERTICAL TURBINE PUMPS SINGLE STAGE PERFORMANCE



**42HC
6920**

**580
RPM**

IMPELLER
YT5VA99

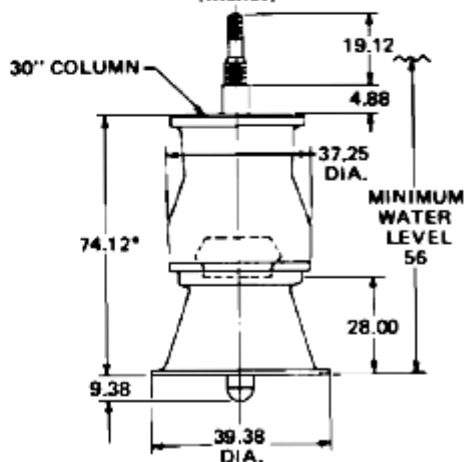
EFFICIENCY CORRECTIONS (1)

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

BOWL MATERIAL	EFFICIENCY CHANGE
CAST IRON	NO CHANGE
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	700 RPM
MAXIMUM NUMBER OF STAGES	5**
PUMP SHAFT DIAMETER	5 1/2 IN.
IMPELLER EYE AREA	280.6 SQ. IN.
MAXIMUM SPHERE SIZE	2.25 IN.
K ₁ (THRUST FACTOR)	110 LBS./FT.
K ₂ (ROTOR WT. PER STAGE)	680 LBS.
BOWL WT. (FIRST STAGE)	6000 LBS.
BOWL WT. (EACH ADD'L STAGE)	3150 LBS.
ALLOWABLE SHAFT STRETCH	1.62 IN.**
WK ₁ (FIRST STAGE)	560.00 LBS.-FT. ²
WK ₂ (EACH ADD'L STAGE)	546.00 LBS.-FT. ²
BOWL RING CLEARANCE	.020/.025 IN.

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

(1) Refer to selection data for head correction.

*Add 30.88 for each additional stage.

FAIRBANKS MORSE PUMPS