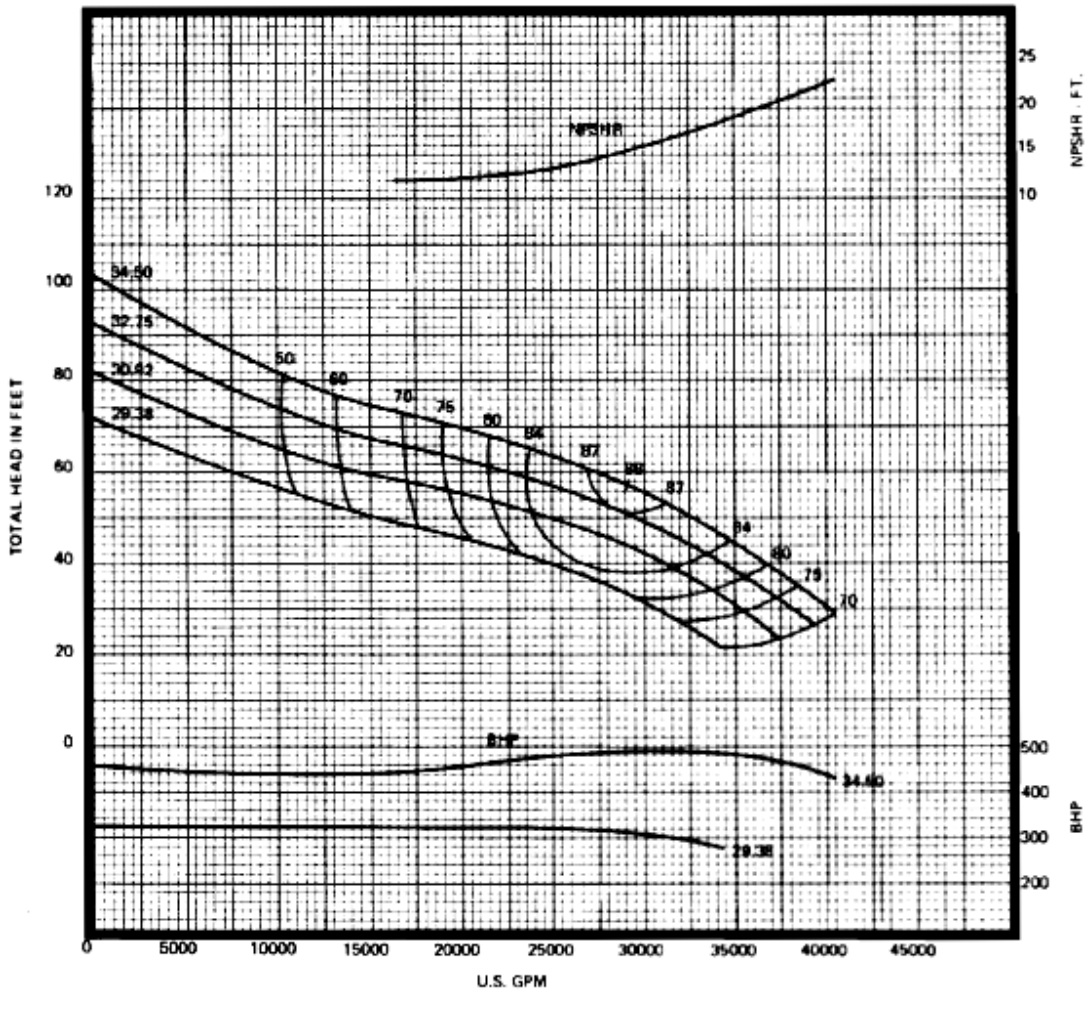
VERTICAL TURBINE PUMPS
SINGLE STAGE PERFORMANCE



57H
7000
440
RPM

IMPELLER
T7AWA99

EFFICIENCY CORRECTIONS (1)

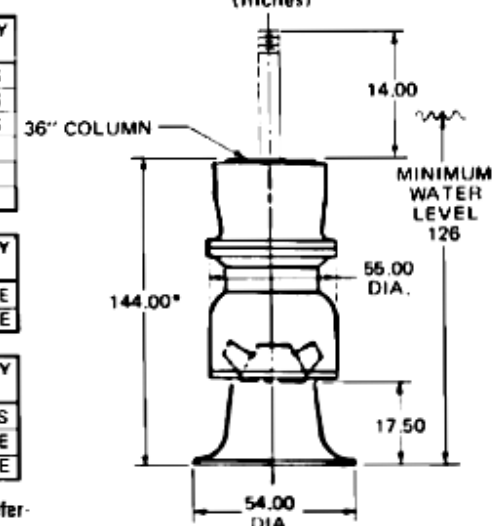
NUMBER OF STAGES	EFFICIENCY CHANGE
1	0 POINTS
2	0 POINTS
3	-1.0 POINTS
4	—
5	—
6	—

BOWL MATERIAL	EFFICIENCY CHANGE
CAST IRON	NO CHANGE
ENAMELED C I	NO CHANGE

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

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

DIMENSIONS
(Inches)



TECHNICAL DATA

DATA	VALUE
MAXIMUM OPERATING SPEED	600 RPM
MAXIMUM NUMBER OF STAGES	1**
PUMP SHAFT DIAMETER	5½ IN.
IMPELLER EYE AREA	571 SQ.IN.
MAXIMUM SPHERE SIZE	5.25 IN.
K_t (THRUST FACTOR)	280 LBS./FT.
K_s (ROTOR WT. PER STAGE)	975 LBS.
BOWL WT. (FIRST STAGE)	8000 LBS.
BOWL WT. (EACH ADD'L. STAGE)	4500 LBS.
ALLOWABLE SHAFT STRETCH	.62 IN.**
WK^2 (FIRST STAGE)	1580 LBS.-FT.^{2}
WK^2 (EACH ADD'L. STAGE)	1560 LBS.-FT.^{2}
BOWL RING CLEARANCE	.045/.048 IN.

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