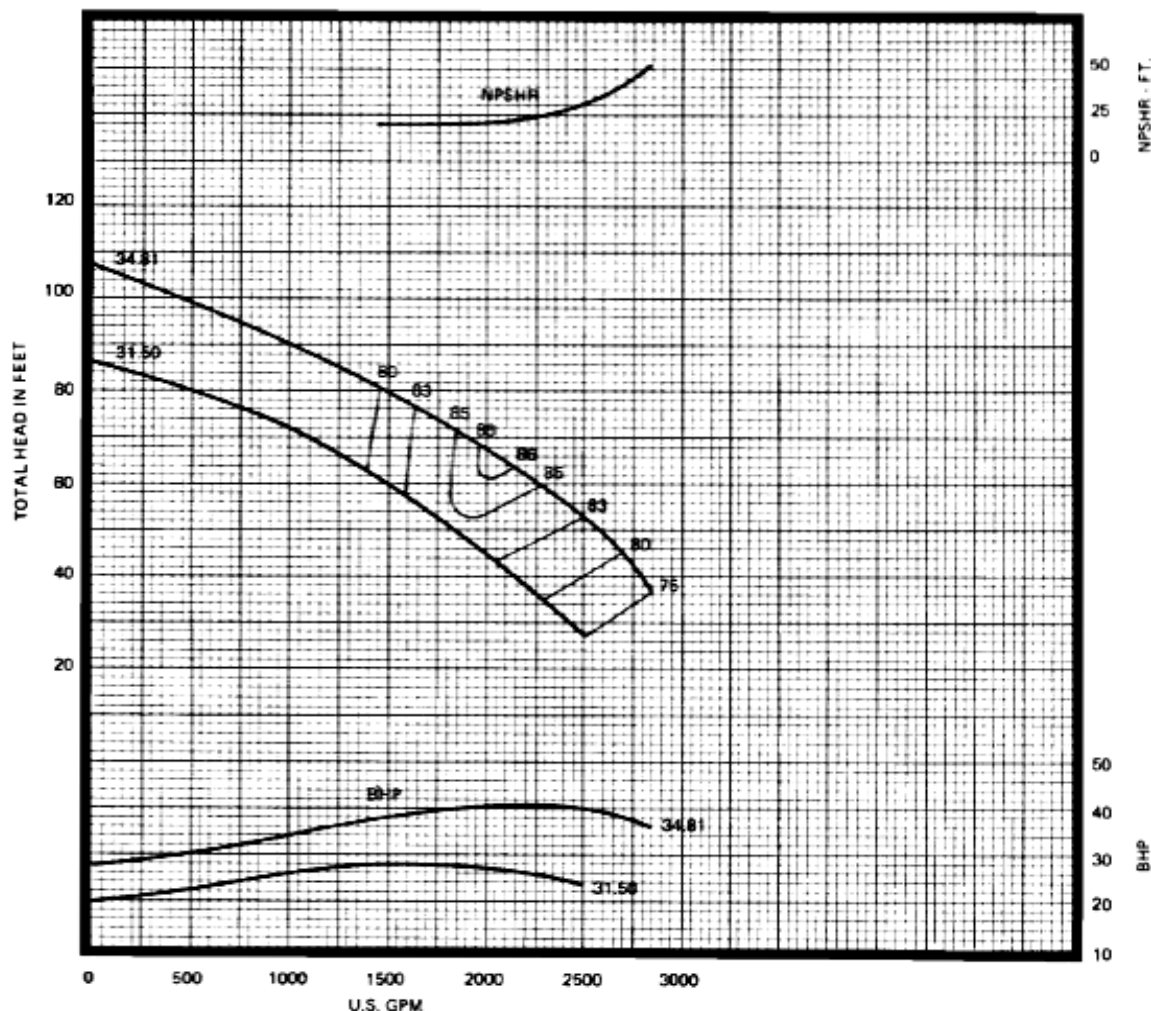


# VERTICAL TURBINE PUMPS SINGLE STAGE PERFORMANCE



**48HC  
6920**

**500  
RPM**

IMPELLER  
YT5WA99

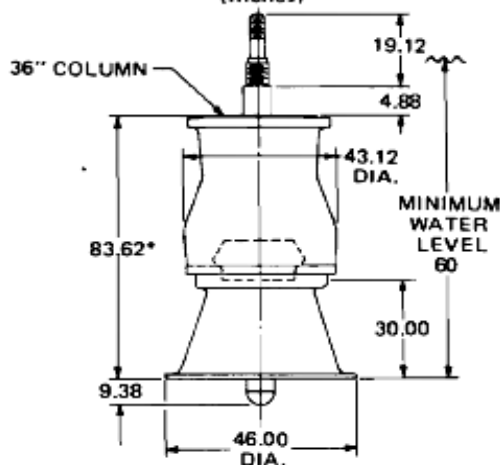
## EFFICIENCY CORRECTIONS (1)

| 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              | 600 RPM                    |
| MAXIMUM NUMBER OF STAGES             | 4**                        |
| PUMP SHAFT DIAMETER                  | 5 1/2 IN.                  |
| IMPELLER EYE AREA                    | 396.2 SQ. IN.              |
| MAXIMUM SPHERE SIZE                  | 2.75 IN.                   |
| K <sub>t</sub> (THRUST FACTOR)       | 152 LBS./FT.               |
| K <sub>g</sub> (ROTOR WT. PER STAGE) | 980 LBS.                   |
| BOWL WT. (FIRST STAGE)               | 7300 LBS.                  |
| BOWL WT. (EACH ADD'L. STAGE)         | 3840 LBS.                  |
| ALLOWABLE SHAFT STRETCH              | 1.62 IN.**                 |
| WK <sup>2</sup> (FIRST STAGE)        | 1040 LBS.-FT. <sup>2</sup> |
| WK <sup>2</sup> (EACH ADD'L. STAGE)  | 1025 LBS.-FT. <sup>2</sup> |
| BOWL RING CLEARANCE                  | .028/.033 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 36.25 for each additional stage.