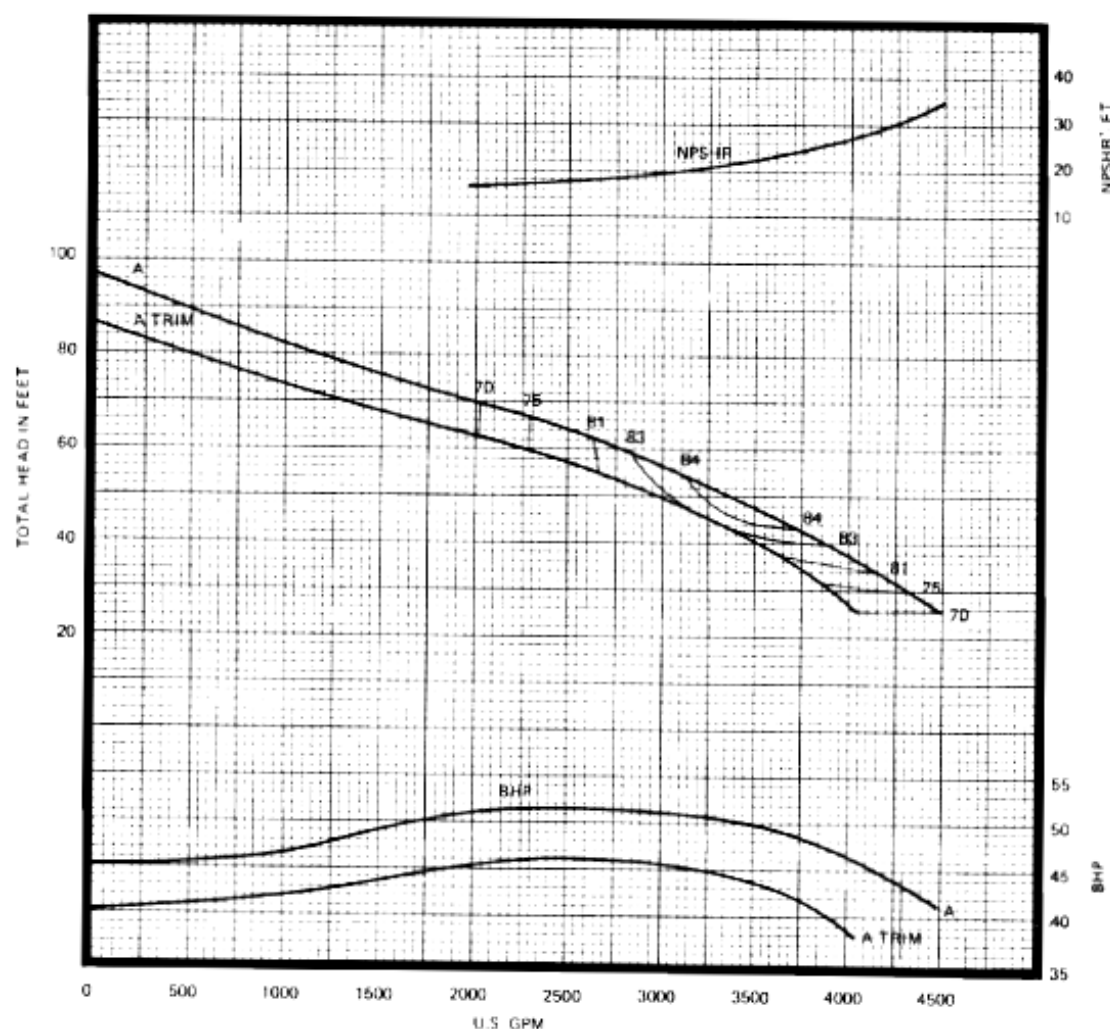


# VERTICAL TURBINE PUMPS SINGLE STAGE PERFORMANCE



**20MC  
6970**

**1170  
RPM**

IMPELLER  
T3KA92

## EFFICIENCY CORRECTIONS (1)

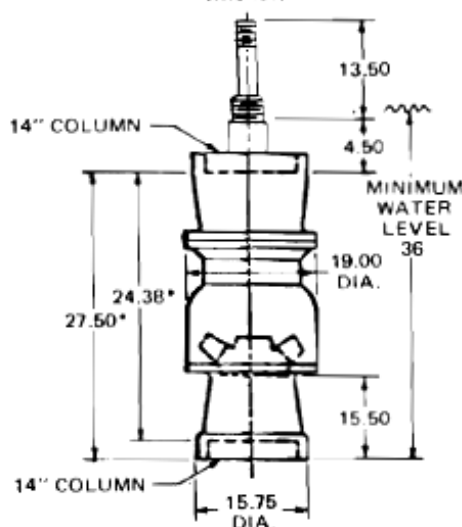
| NUMBER OF STAGES | EFFICIENCY CHANGE |
|------------------|-------------------|
| 1                | - 4.0 POINTS      |
| 2                | - 2.0 POINTS      |
| 3                | - 1.0 POINTS      |
| 4                | NO CHANGE         |
| 5                | NO CHANGE         |
| 6 OR MORE        | 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.      | NA                |

(1) Refer to selection data for head correction.

## DIMENSIONS (Inches)



\* Add 13.00 for each additional stage.

## TECHNICAL DATA

| DATA                                 | VALUE                       |
|--------------------------------------|-----------------------------|
| MAXIMUM OPERATING SPEED              | 1200 RPM                    |
| MAXIMUM NUMBER OF STAGES             | 8**                         |
| PUMP SHAFT DIAMETER                  | 2 1/2 IN.                   |
| IMPELLER EYE AREA                    | 73.9 SQ. IN.                |
| MAXIMUM SPHERE SIZE                  | 1.25 IN.                    |
| K <sub>t</sub> (THRUST FACTOR)       | 39 LBS./FT.                 |
| K <sub>a</sub> (ROTOR WT. PER STAGE) | 55 LBS.                     |
| BOWL WT. (FIRST STAGE)               | 835 LBS.                    |
| BOWL WT. (EACH ADD'L. STAGE)         | 500 LBS.                    |
| ALLOWABLE SHAFT STRETCH              | .44 IN.**                   |
| WK <sup>2</sup> (FIRST STAGE)        | 14.70 LBS.-FT. <sup>2</sup> |
| WK <sup>2</sup> (EACH ADD'L. STAGE)  | 9.20 LBS.-FT. <sup>2</sup>  |
| BOWL RING CLEARANCE                  | NA                          |

\*\*These are nominal values. Refer to selection data for information further limiting or extending these values.