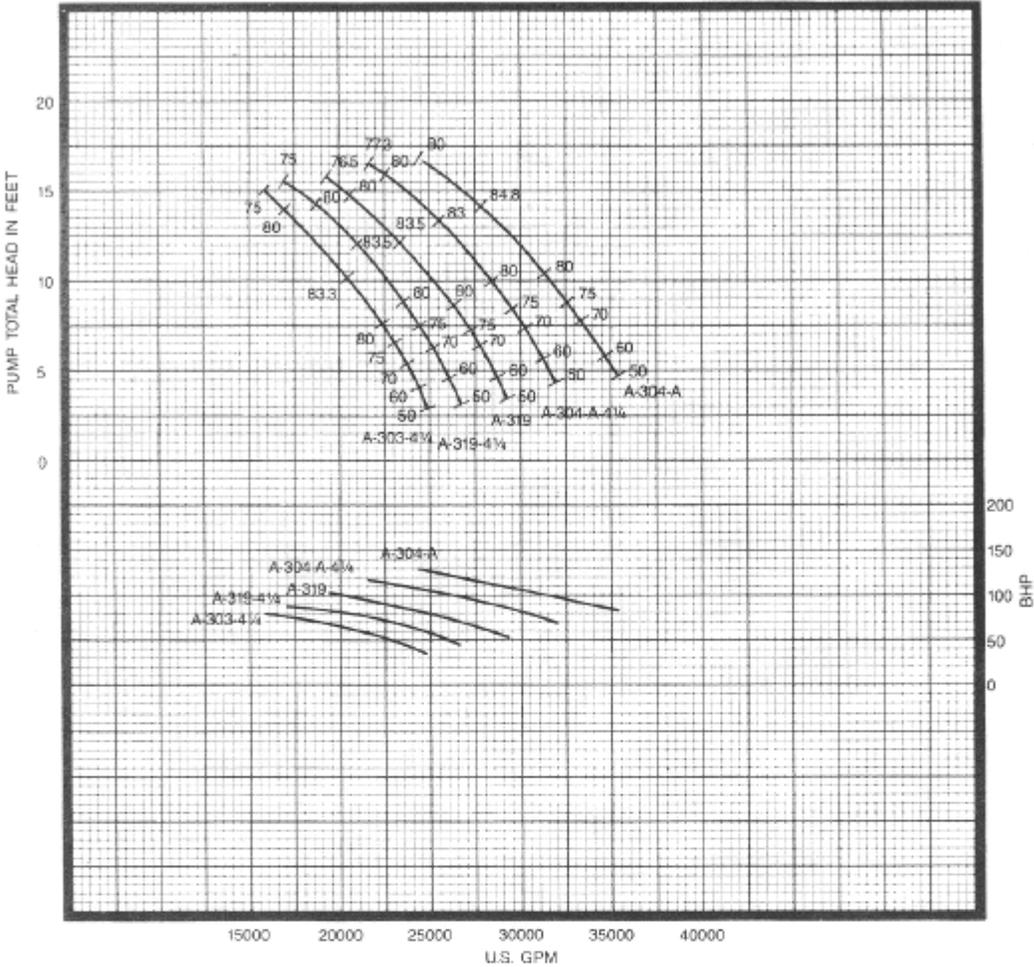


8000 PROPELLER PUMPS  
PUMP PERFORMANCE



**36"**  
**8211**

**435**  
**RPM**

**1**  
**STAGE**

36"  
COLUMN

36"  
FABRICATED  
STEEL ELBOW

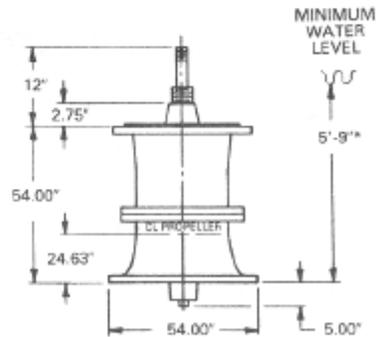
2-7/16"  
LINESHAFT

3-1/2"  
ENCLOSING  
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 IN.
MAXIMUM SPHERE SIZE	5.00 IN.
K <sub>t</sub> (THRUST FACTOR)	320 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	470 LBS.
K <sub>s</sub> (SETTING CONSTANT)	15.9 LBS./FT.
WK <sup>2</sup>	388 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	3000 LBS.
EYE AREA: PROPELLER NO. A-303-4 1/4	537.4 SQ. IN. 3 VANE
PROPELLER NO. A-319-4 1/4	537.4 SQ. IN. 3 VANE
PROPELLER NO. A-319	587.5 SQ. IN. 3 VANE
PROPELLER NO. A-304-A-4 1/4	537.4 SQ. IN. 4 VANE
PROPELLER NO. A-304-A	587.5 SQ. IN. 4 VANE
PROPELLER NO.	

HYDRAULIC PERFORMANCE IS CONTINGENT ON FURNISHING THE PUMP WITH SPECIFIED AMOUNT OF CLEAR, FRESH, NON-AERATED WATER NOT TO EXCEED 85° F.

PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



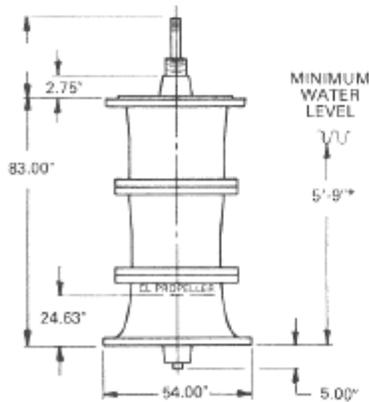
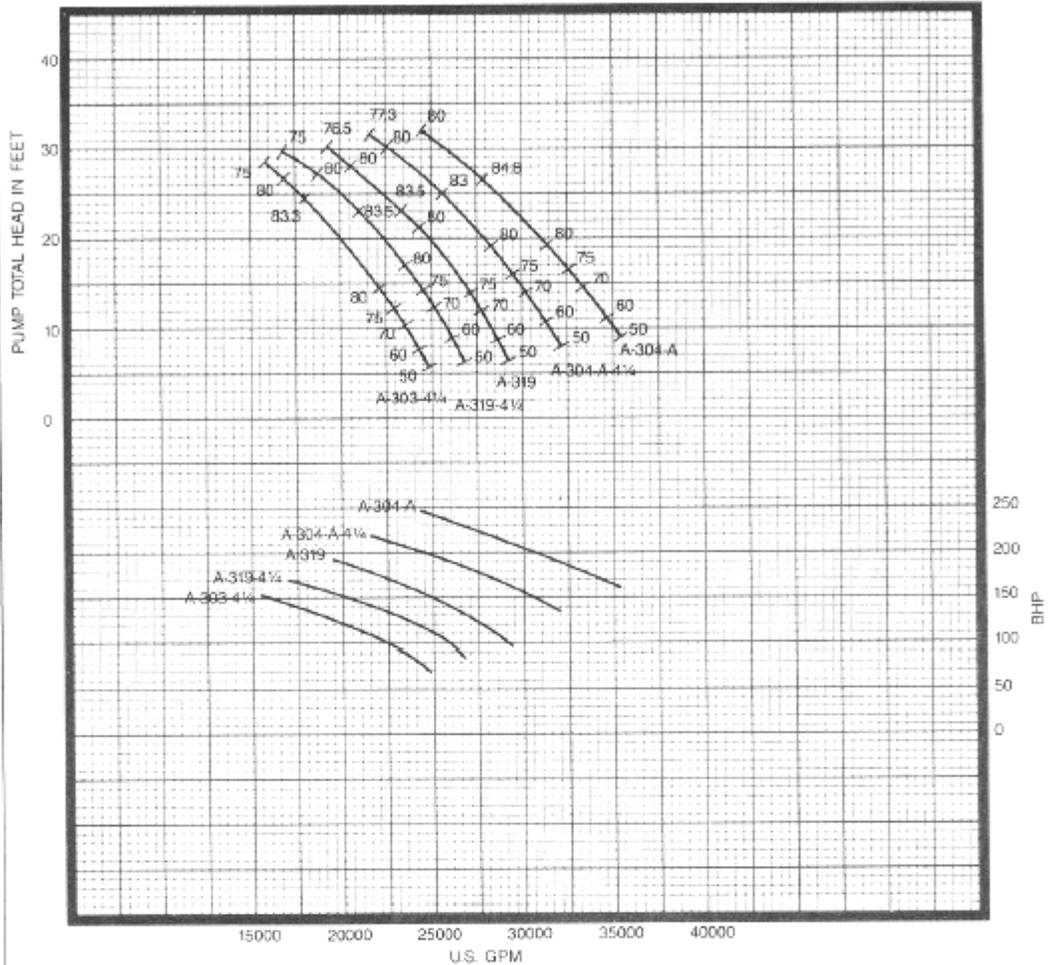
\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

## 8000 PROPELLER PUMPS PUMP PERFORMANCE

342

**36"**  
**8211**  
**435**  
**RPM**  
**2**  
**STAGE**

36"  
COLUMN  
36"  
FABRICATED  
STEEL ELBOW  
2-15/16"  
LINESHAFT  
5'  
ENCLOSING  
TUBE



DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 IN.
MAXIMUM SPHERE SIZE	5.00 IN.
K <sub>t</sub> (THRUST FACTOR)	320 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	940 LBS.
K <sub>s</sub> (SETTING CONSTANT)	23.0 LBS./FT.
WK <sup>2</sup>	776 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	4150 LBS.
EYE AREA: PROPELLER NO. A-303-4 1/4	537.4 SQ. IN. 3 VANE
PROPELLER NO. A-319	537.4 SQ. IN. 3 VANE
PROPELLER NO. A-319	587.5 SQ. IN. 3 VANE
PROPELLER NO. A-304-A 1/4	537.4 SQ. IN. 4 VANE
PROPELLER NO. A-304-A	587.5 SQ. IN. 4 VANE
PROPELLER NO.	

HYDRAULIC PERFORMANCE IS CONTINGENT ON FURNISHING THE PUMP WITH SPECIFIED AMOUNT OF CLEAR, FRESH, NON-AERATED WATER NOT TO EXCEED 85° F.

PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.

\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.