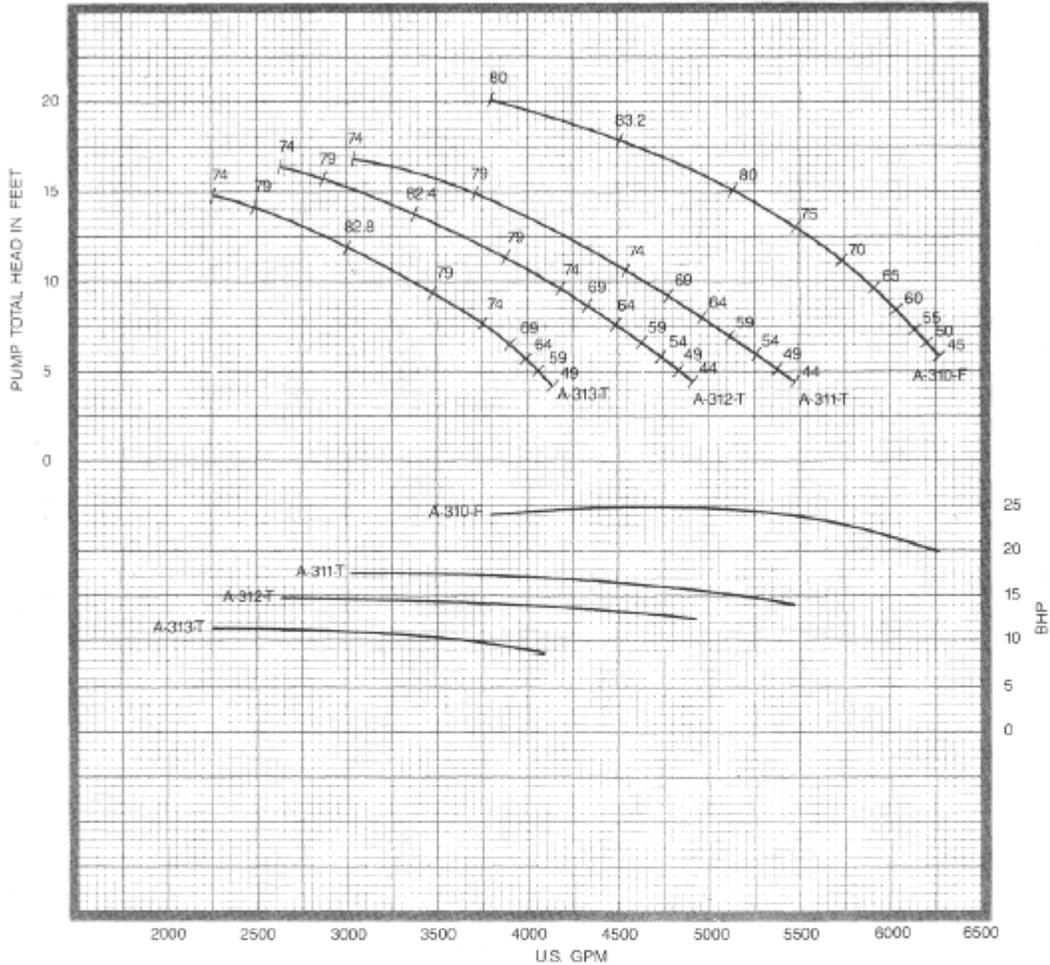


8000 PROPELLER PUMPS  
PUMP PERFORMANCE



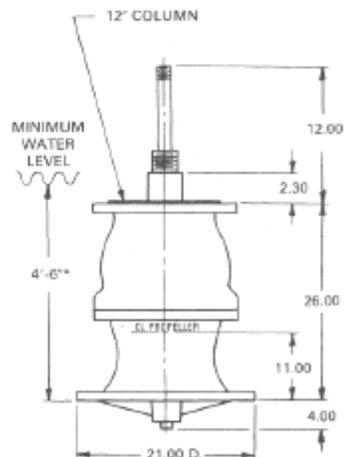
**14"**  
**8312**  
  
**880**  
**RPM**  
  
**1**  
**STAGE**

14"  
COLUMN  
14"  
CAST IRON  
ELBOW  
1-1/2"  
LINESHAFT  
2-1/2"  
ENCLOSING  
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.25 IN.
K <sub>t</sub> (THRUST FACTOR)	46 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	45 LBS.
K <sub>s</sub> (SETTING CONSTANT)	5.5 LBS./FT.
WK <sup>2</sup>	7.1 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	595 LBS.
EYE AREA: PROPELLER NO. A-310-F	92.0 SQ. IN. 4 VANE
PROPELLER NO. A-311-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-312-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-313-T	92.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.



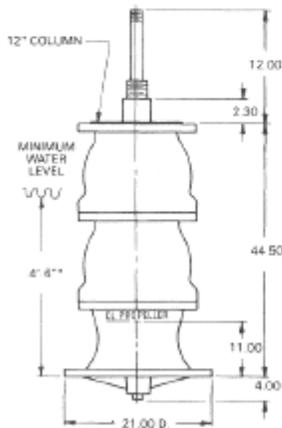
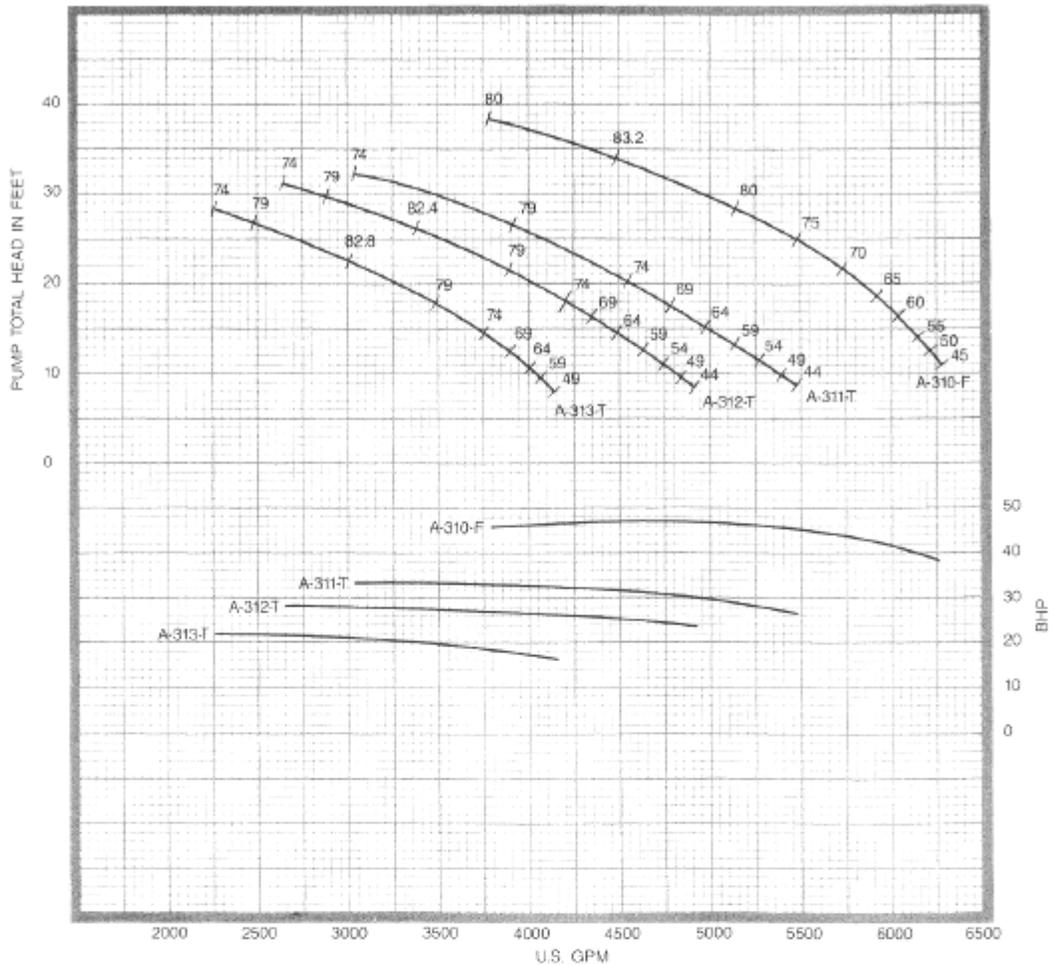
\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

8000 PROPELLER PUMPS  
PUMP PERFORMANCE

382

14"  
8312  
880  
RPM  
2  
STAGE

14"  
COLUMN  
14"  
CAST IRON  
ELBOW  
1-11/16"  
LINESHAFT  
2-1/2"  
ENCLOSING  
TUBE



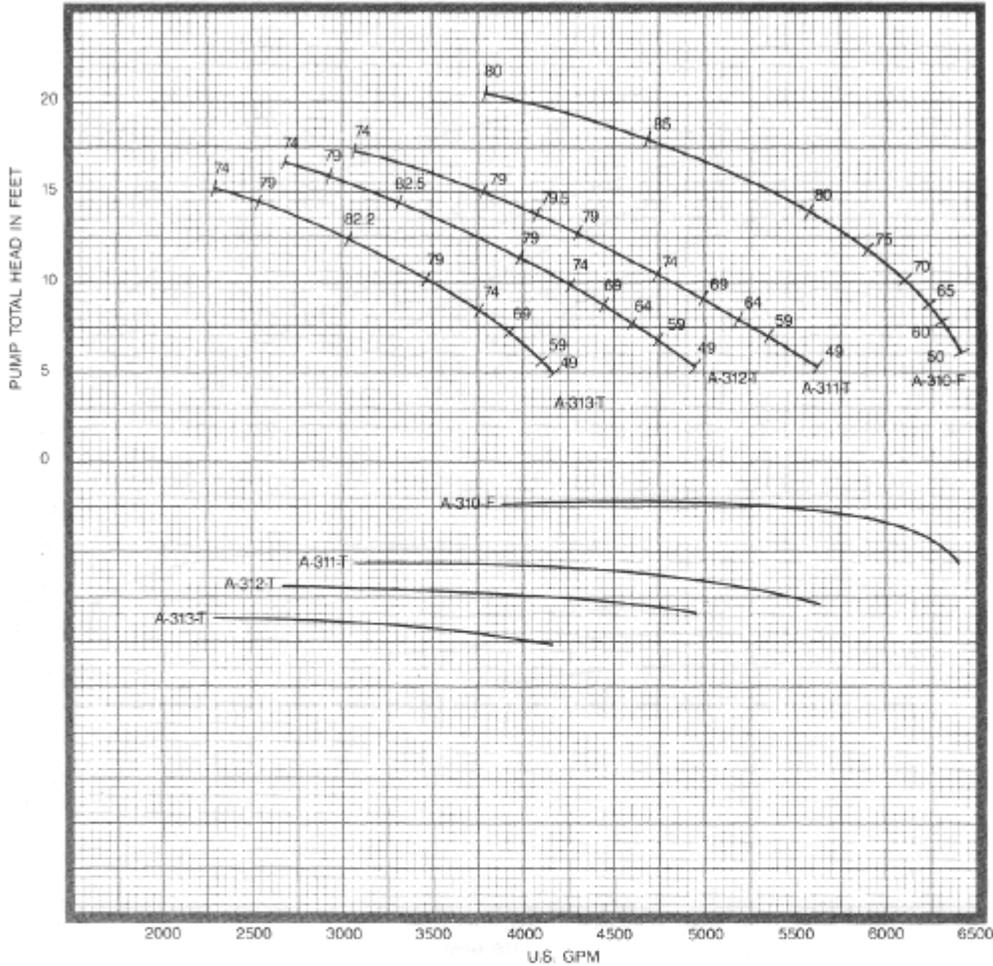
\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.25 IN.
$K_t$ (THRUST FACTOR)	46 LBS./FT.
$K_a$ (TOTAL ROTOR WEIGHT)	90 LBS.
$K_s$ (SETTING CONSTANT)	7.6 LBS./FT.
$WK^2$	14.2 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	770 LBS.
EYE AREA: PROPELLER NO. A-310-F	92.0 SQ. IN. 4 VANE
PROPELLER NO. A-311-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-312-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-313-T	92.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.

8000 PROPELLER PUMPS  
PUMP PERFORMANCE



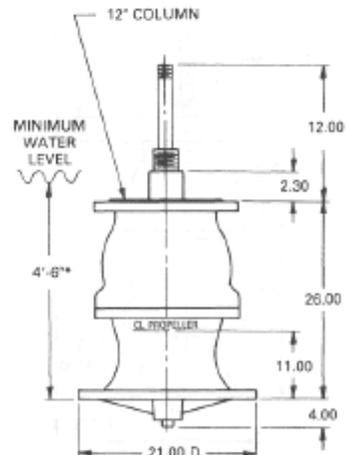
14"  
8312  
880  
RPM  
1  
STAGE

16"  
COLUMN  
16"  
FABRICATED  
STEEL ELBOW  
1-1/2"  
LINESHAFT  
2-1/2"  
ENCLOSING  
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.25 IN.
$K_t$ (THRUST FACTOR)	46 LBS./FT.
$K_B$ (TOTAL ROTOR WEIGHT)	45 LBS.
$K_S$ (SETTING CONSTANT)	5.5 LBS./FT.
$WK^2$	7.1 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	425 LBS.
EYE AREA: PROPELLER NO. A-310-F	92.0 SQ. IN. 4 VANE
PROPELLER NO. A-311-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-312-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-313-T	92.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.



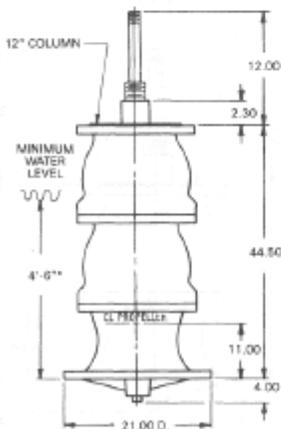
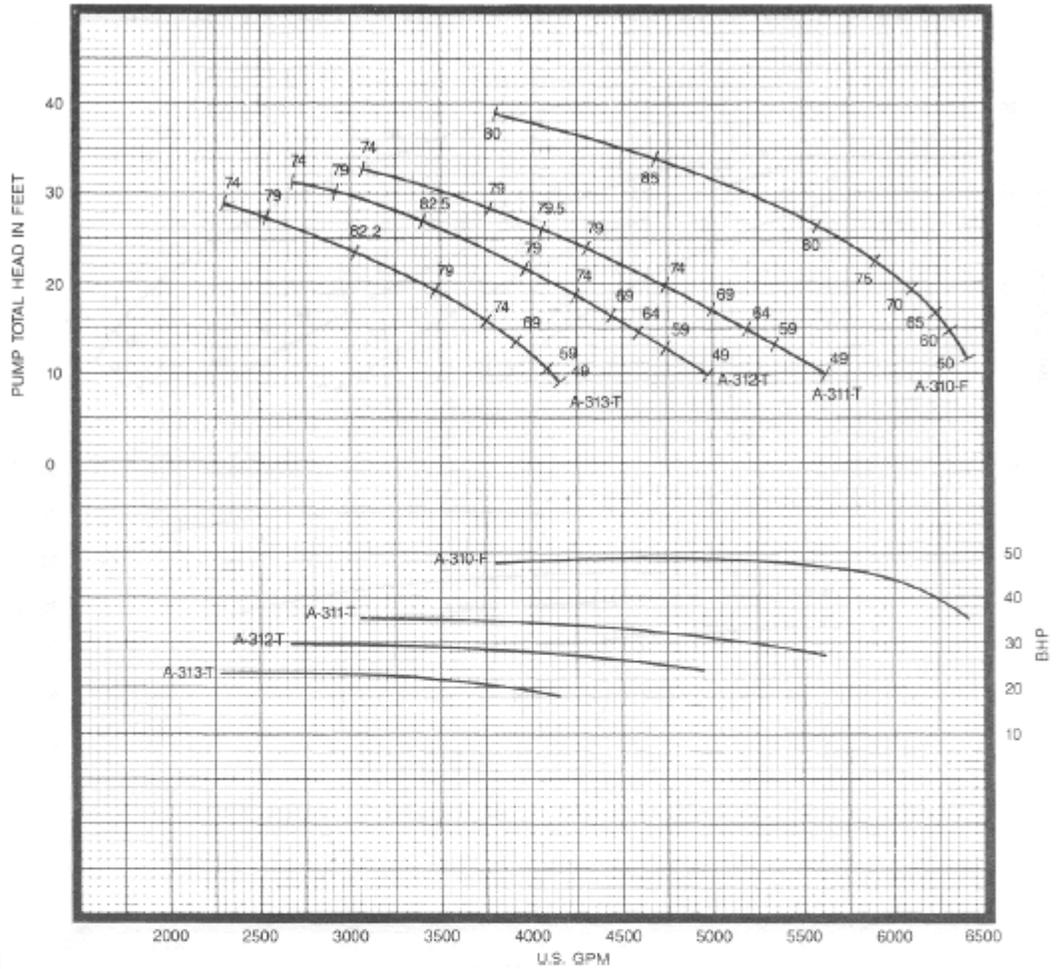
\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

8000 PROPELLER PUMPS  
PUMP PERFORMANCE

384

14"  
8312  
880  
RPM  
2  
STAGE

16"  
COLUMN  
16"  
FABRICATED  
STEEL ELBOW  
1-11/16"  
LINESHAFT  
2-1/2"  
ENCLOSING  
TUBE



DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.25 IN.
K <sub>t</sub> (THRUST FACTOR)	46 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	90 LBS.
K <sub>s</sub> (SETTING CONSTANT)	7.6 LBS./FT.
WK <sup>2</sup>	14.2 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	700 LBS.
EYE AREA: PROPELLER NO. A-310-F	92.0 SQ. IN. 4 VANE
PROPELLER NO. A-311-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-312-T	92.0 SQ. IN. 3 VANE
PROPELLER NO. A-313-T	92.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.