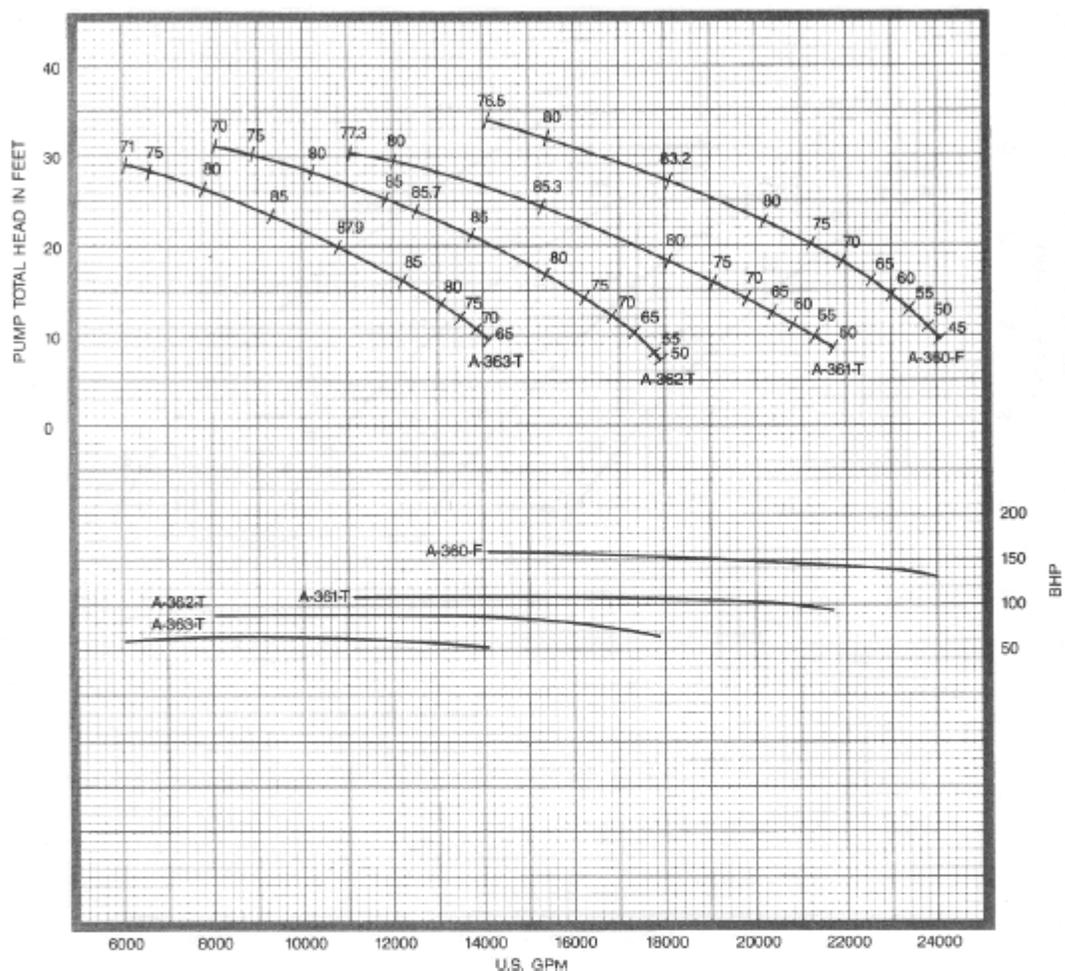


8000 PROPELLER PUMPS  
PUMP PERFORMANCE



**24"**  
**8312**

**705**  
**RPM**

**1**  
**STAGE**

24"  
COLUMN

24"  
FABRICATED  
STEEL  
ELBOW

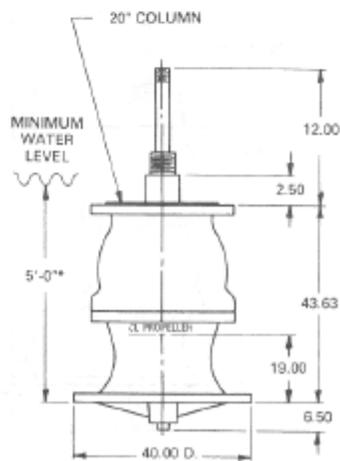
2-3/16"  
LINESHAFT

3"  
ENCLOSING  
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K <sub>t</sub> (THRUST FACTOR)	127 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	175 LBS.
K <sub>s</sub> (SETTING CONSTANT)	12.8 LBS./FT.
WK <sup>2</sup>	77 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	1700 LBS.
EYE AREA: PROPELLER NO. A-360-F	256.3 SQ. IN. 4 VANE
PROPELLER NO. A-361-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-362-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-363-T	256.3 SQ. IN. 3 VANE
PROPELLER NO.	
PROPELLER NO.	

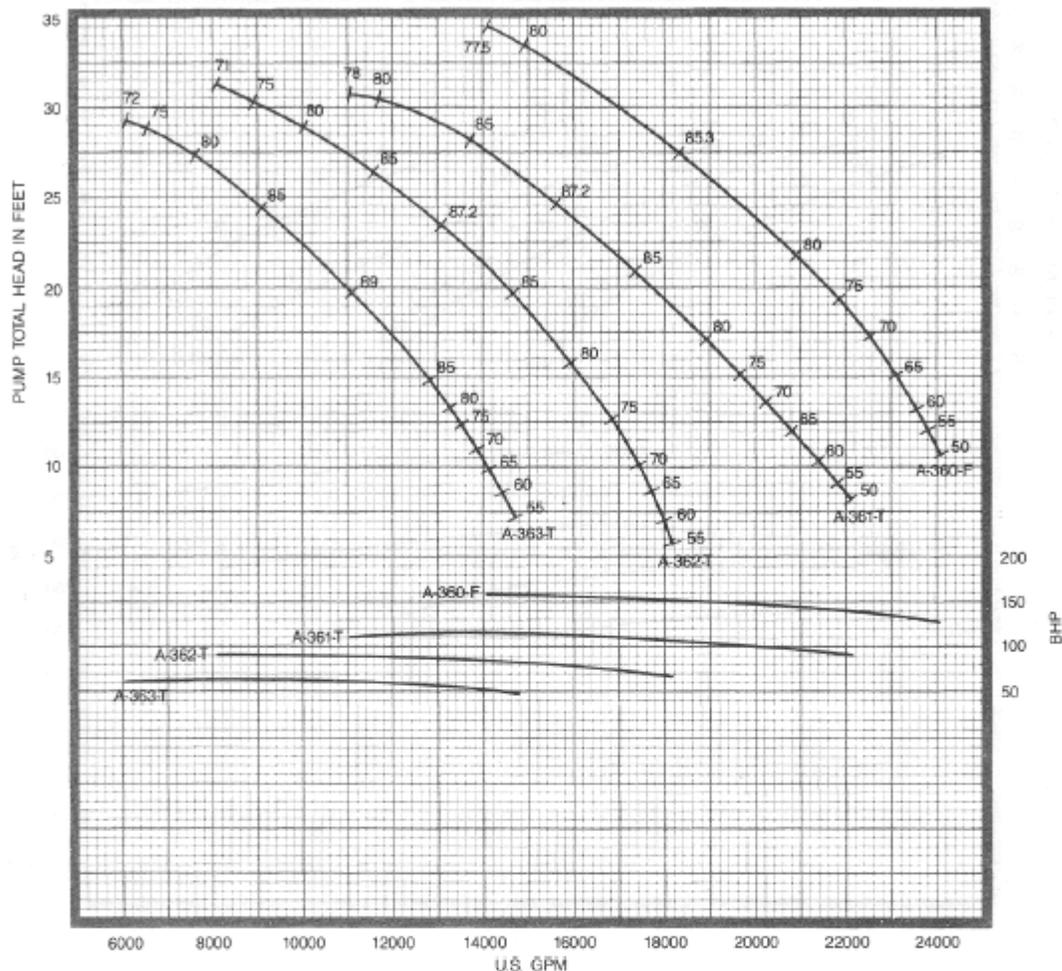
HYDRAULIC PERFORMANCE IS CONTINGENT ON FURNISHING THE PUMP WITH SPECIFIED AMOUNT OF CLEAR, FRESH, NON-AERATED WATER NOT TO EXCEED 85° F.

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



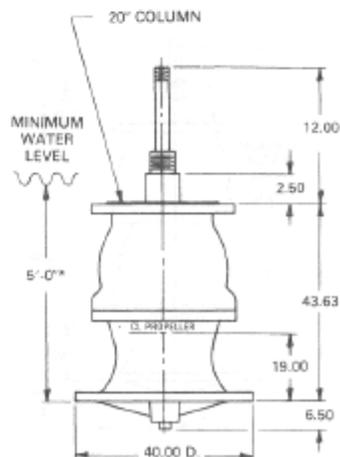
**24"**  
**8312**  
**705**  
**RPM**  
**1**  
**STAGE**

30°  
COLUMN  
30°  
FABRICATED  
STEEL  
ELBOW  
2-3/16"  
LINESHAFT  
3"  
ENCLOSING  
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K <sub>t</sub> (THRUST FACTOR)	127 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	175 LBS.
K <sub>s</sub> (SETTING CONSTANT)	12.8 LBS./FT.
WK <sup>2</sup>	77 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	1700 LBS.
EYE AREA: PROPELLER NO. A-360-F	256.3 SQ. IN. 4 VANE
PROPELLER NO. A-361-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-362-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-363-T	256.3 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.



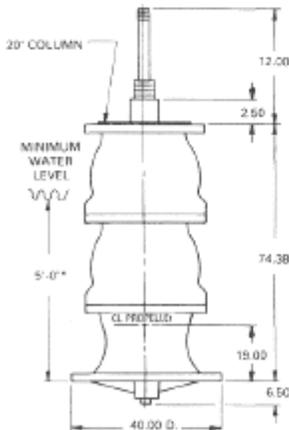
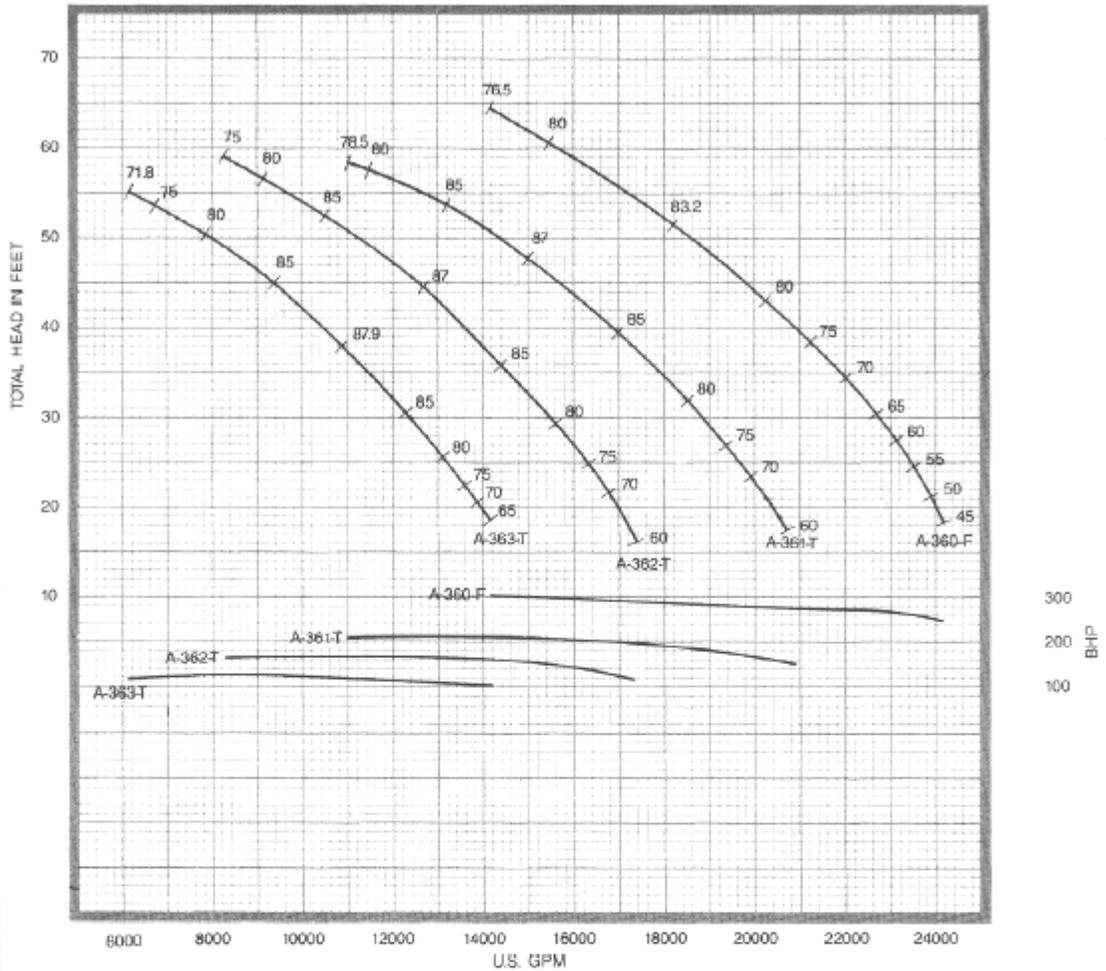
\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

8000 PROPELLER PUMPS  
PUMP PERFORMANCE

406

**24"**  
**8312**  
**705**  
**RPM**  
**2**  
**STAGE**

24"  
COLUMN  
24"  
FABRICATED  
STEEL  
ELBOW  
2-7/16"  
LINESHAFT  
3-1/2"  
ENCLOSING  
TUBE



DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K <sub>t</sub> (THRUST FACTOR)	127 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	350 LBS.
K <sub>s</sub> (SETTING CONSTANT)	15.9 LBS./FT.
WK <sup>2</sup>	154 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	2800 LBS.
EYE AREA: PROPELLER NO. A-360-F	256.3 SQ. IN. 4 VANE
PROPELLER NO. A-361-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-362-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-363-T	256.3 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.

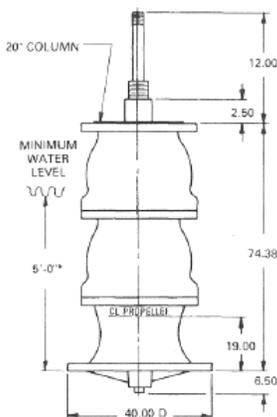
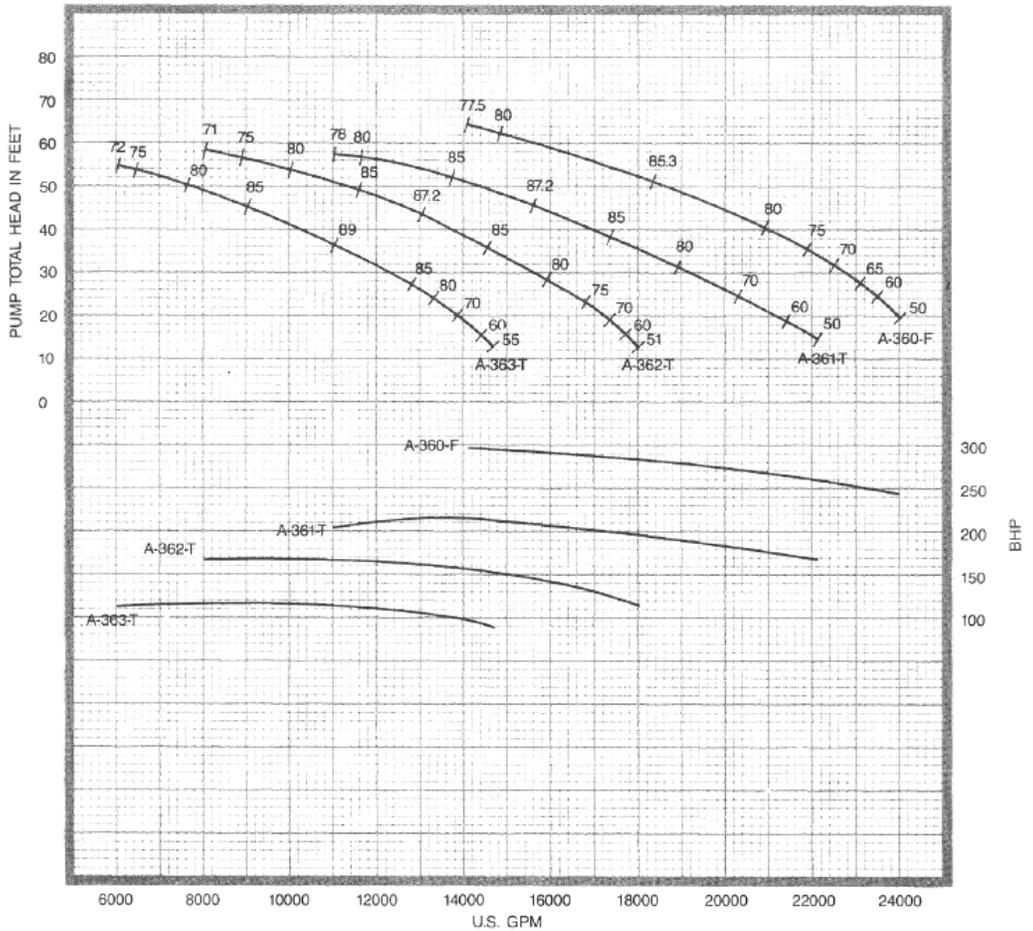
\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

8000 PROPELLER PUMPS  
PUMP PERFORMANCE

408

**24"**  
**8312**  
**705**  
**RPM**  
**2**  
**STAGE**

30"  
COLUMN  
30"  
FABRICATED  
STEEL  
ELBOW  
2-7/16"  
LINESHAFT  
3-1/2"  
ENCLOSING  
TUBE



DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K <sub>t</sub> (THRUST FACTOR)	127 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	350 LBS.
K <sub>s</sub> (SETTING CONSTANT)	15.9 LBS./FT.
WK <sup>2</sup>	154 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	2800 LBS.
EYE AREA: PROPELLER NO. A-360-F	256.3 SQ. IN. 4 VANE
PROPELLER NO. A-361-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-362-T	256.3 SQ. IN. 3 VANE
PROPELLER NO. A-363-T	256.3 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.