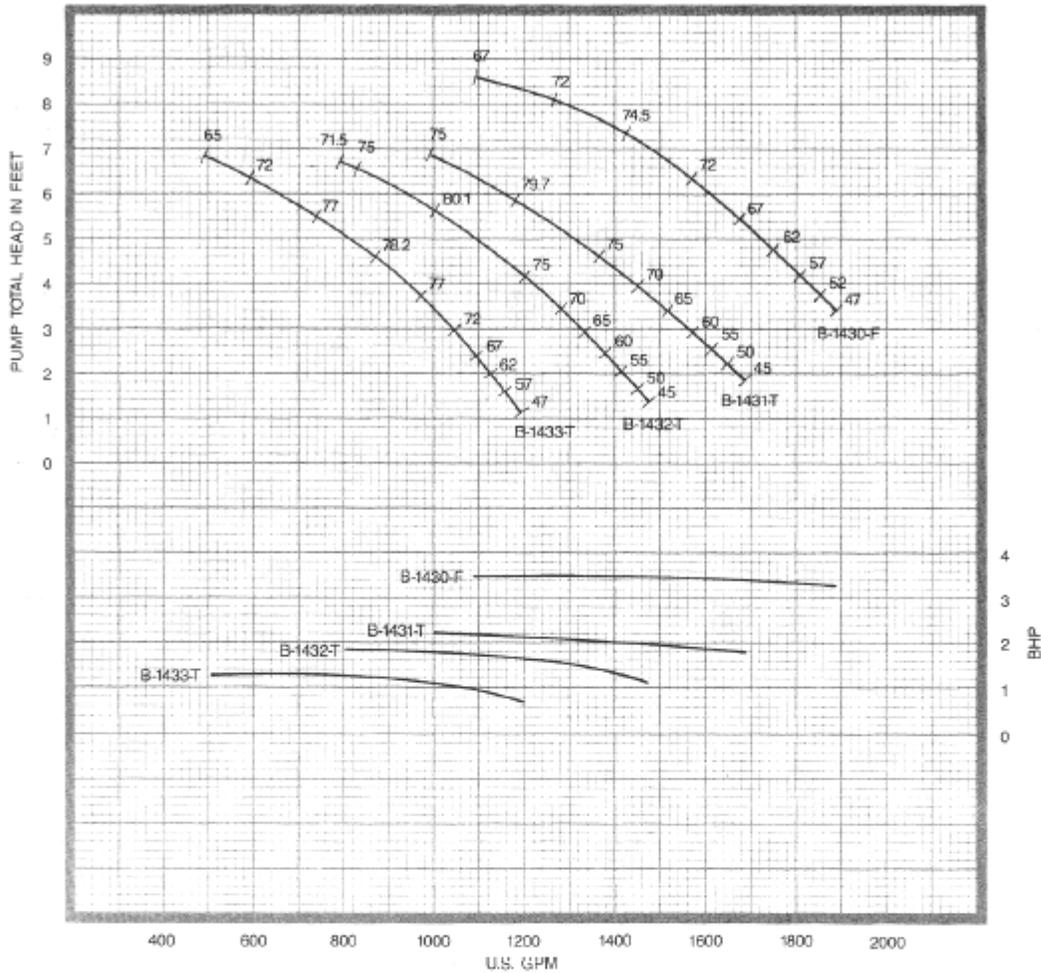


8000 PROPELLER PUMPS  
PUMP PERFORMANCE



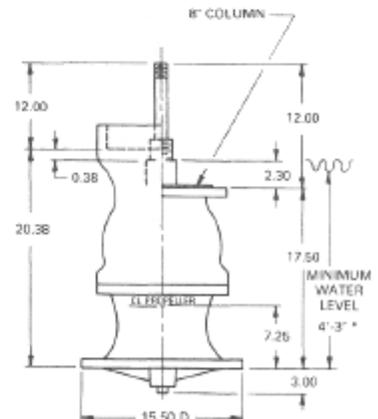
**10"**  
**8312**  
**880**  
**RPM**  
**1**  
**STAGE**

10"  
COLUMN  
10"  
CAST IRON  
ELBOW  
1"  
LINESHAFT  
1-1/2"  
ENCLOSING  
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K <sub>t</sub> (THRUST FACTOR)	20 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	17 LBS.
K <sub>s</sub> (SETTING CONSTANT)	2.8 LBS./FT.
WK <sup>2</sup>	1.1 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	265 LBS.
EYE AREA: PROPELLER NO. B-1430-F	41.0 SQ. IN. 4 VANE
PROPELLER NO. B-1431-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1432-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1433-T	41.0 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.

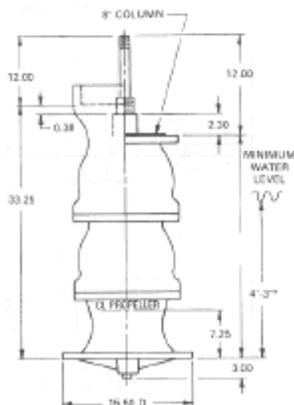
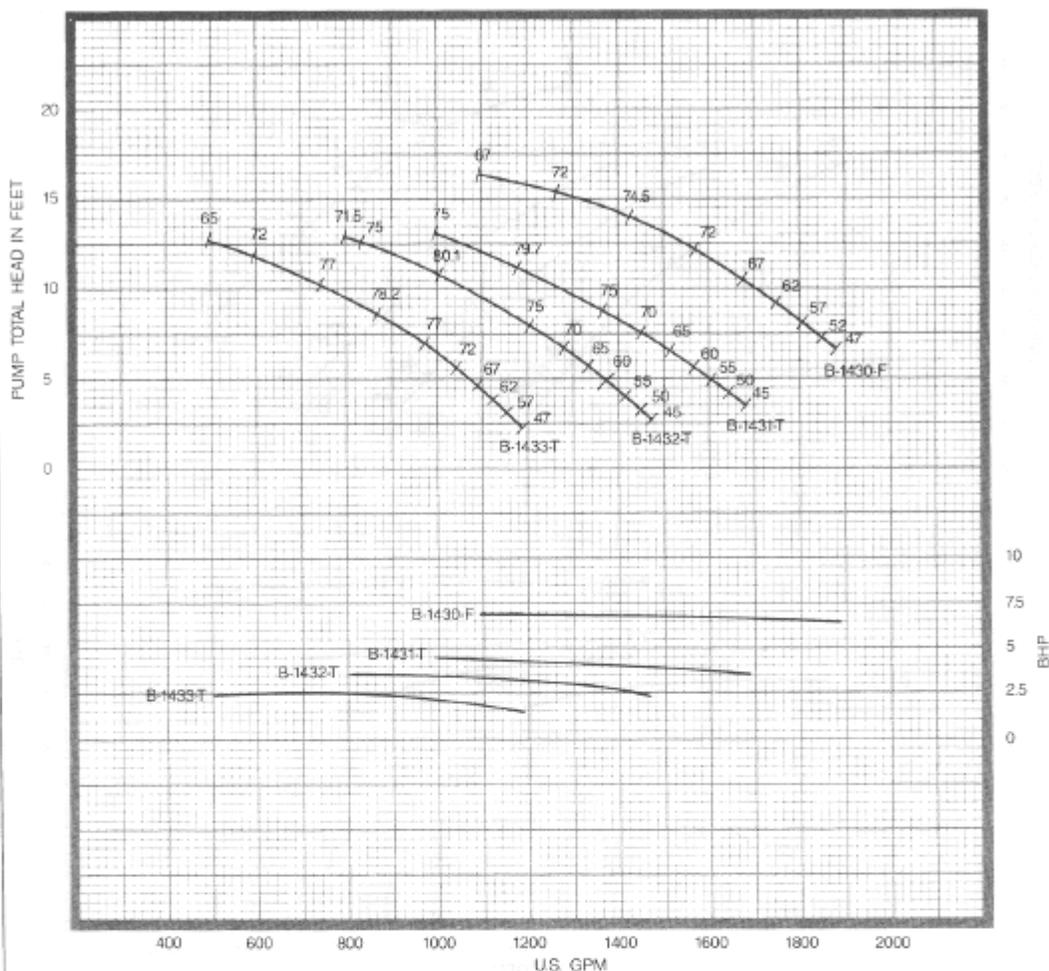


\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

8000 PROPELLER PUMPS  
PUMP PERFORMANCE

374

10"  
8312  
880  
RPM  
2  
STAGE  
10"  
COLUMN  
10"  
CAST IRON  
ELBOW  
1-1/4"  
LINESHAFT  
2"  
ENCLOSING  
TUBE



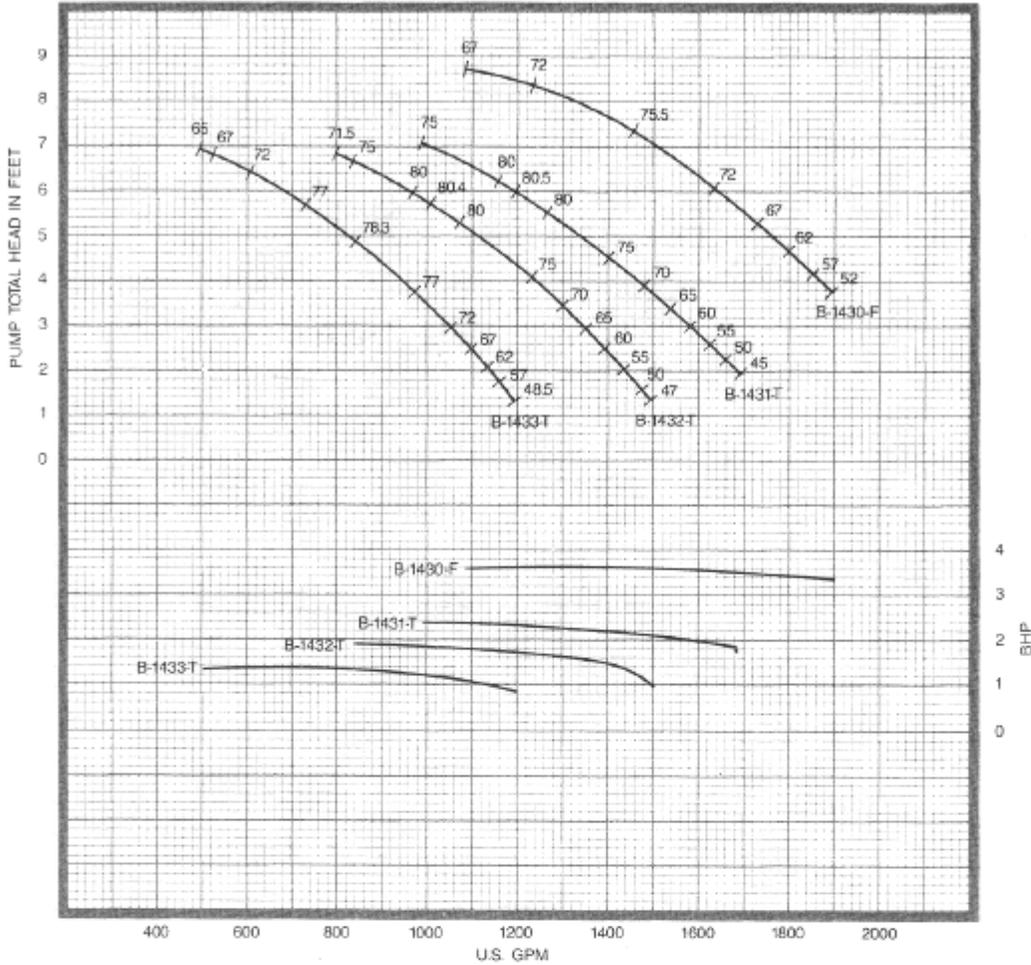
DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K <sub>t</sub> (THRUST FACTOR)	20 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	34 LBS.
K <sub>s</sub> (SETTING CONSTANT)	3.8 LBS./FT.
WK <sup>2</sup>	2.2 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	385 LBS.
EYE AREA: PROPELLER NO. B-1430-F	41.0 SQ. IN. 4 VANE
PROPELLER NO. B-1431-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1432-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1433-T	41.0 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



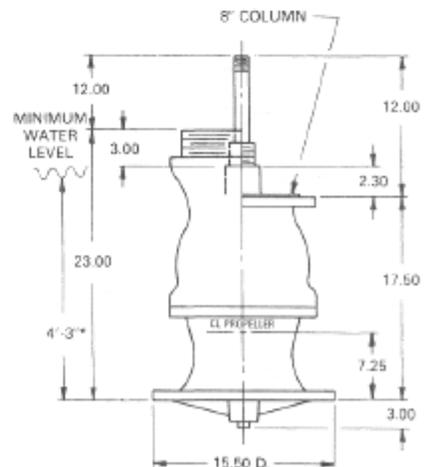
**10"**  
**8312**  
**880**  
**RPM**  
**1**  
**STAGE**

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

DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K <sub>t</sub> (THRUST FACTOR)	20 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	17 LBS.
K <sub>s</sub> (SETTING CONSTANT)	2.8 LBS./FT. <sup>2</sup>
WK <sup>2</sup>	1.1 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	325 LBS.
EYE AREA: PROPELLER NO. B-1430-F	41.0 SQ. IN. 4 VANE
PROPELLER NO. B-1431-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1432-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1433-T	41.0 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.



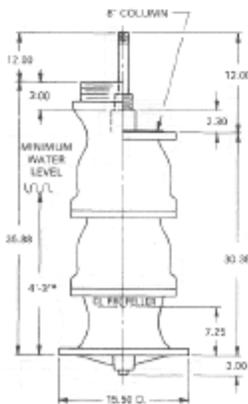
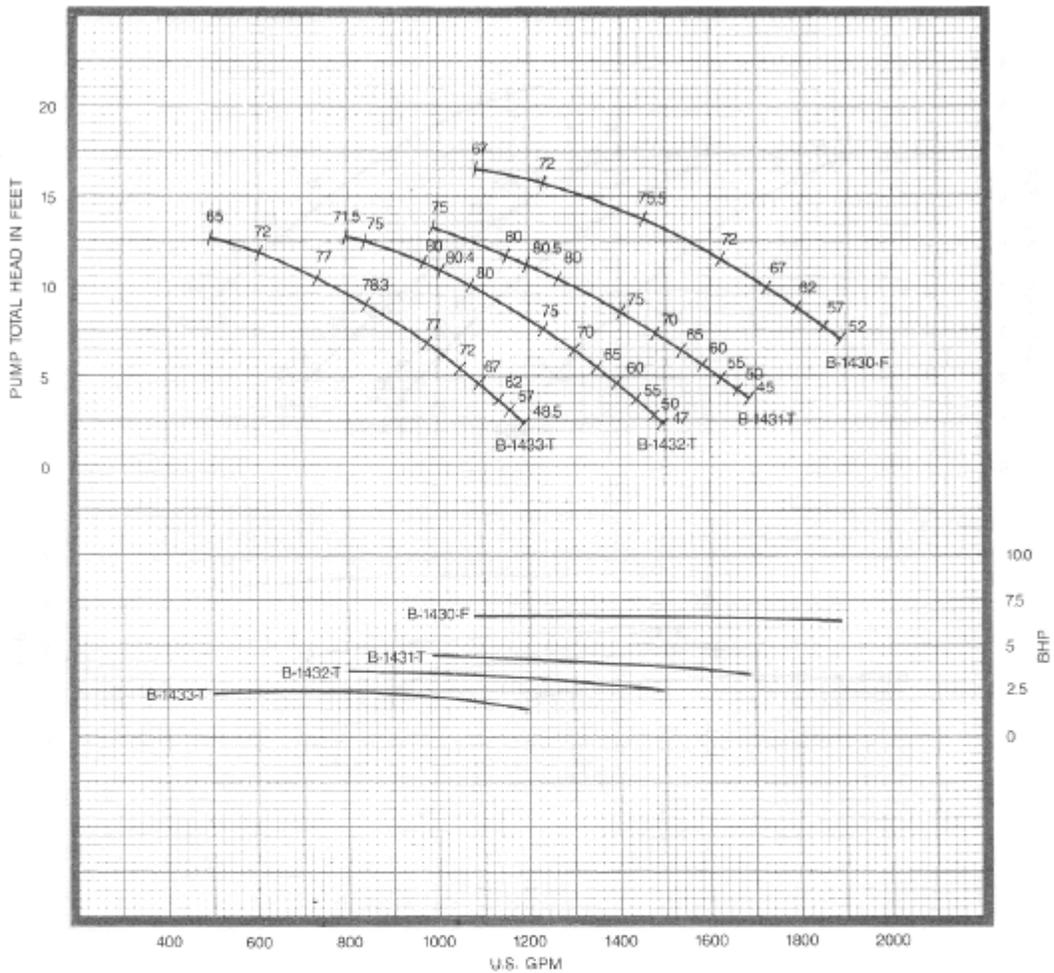
\*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

**8000 PROPELLER PUMPS  
PUMP PERFORMANCE**

376

**10"  
8312  
880  
RPM  
2  
STAGE**

12' COLUMN  
12' CAST IRON ELBOW  
1-1/4" LINESHAFT  
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	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K <sub>t</sub> (THRUST FACTOR)	20 LBS./FT.
K <sub>a</sub> (TOTAL ROTOR WEIGHT)	34 LBS.
K <sub>s</sub> (SETTING CONSTANT)	3.8 LBS./FT.
WK <sup>2</sup>	2.2 LBS.-FT. <sup>2</sup>
BOWL ASSEMBLY WEIGHT	445 LBS.
EYE AREA: PROPELLER NO. B-1430-F	41.0 SQ. IN. 4 VANE
PROPELLER NO. B-1431-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1432-T	41.0 SQ. IN. 3 VANE
PROPELLER NO. B-1433-T	41.0 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 FLOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.