

8312 PROPELLER PUMPS PERFORMANCE SECTION

8312 Propeller Pumps Performance

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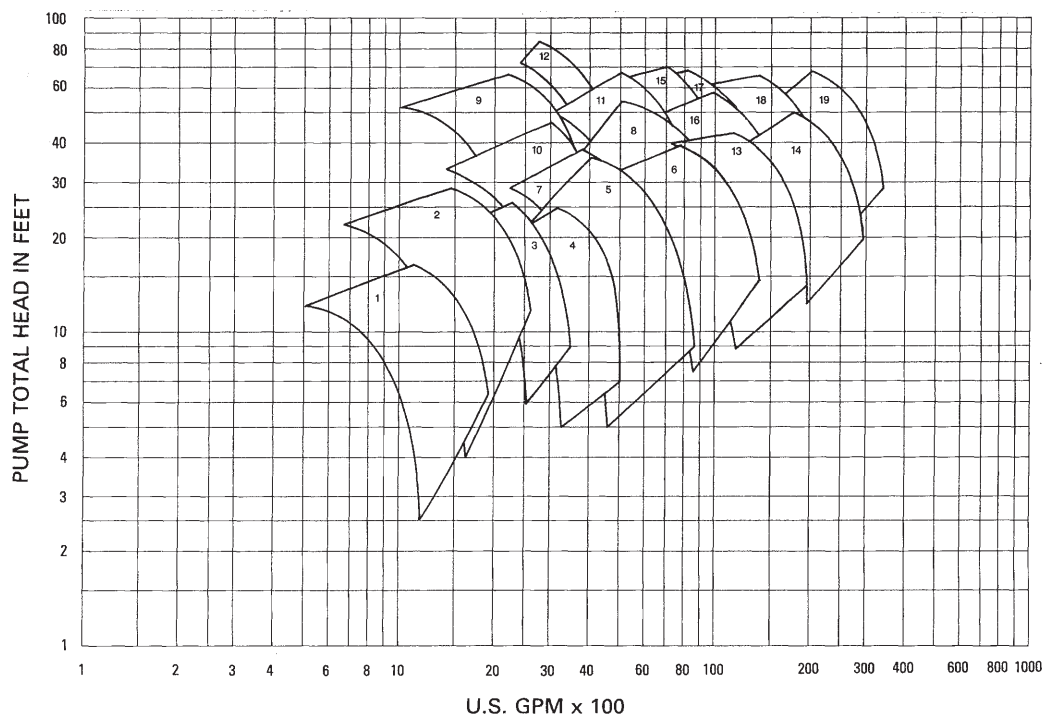
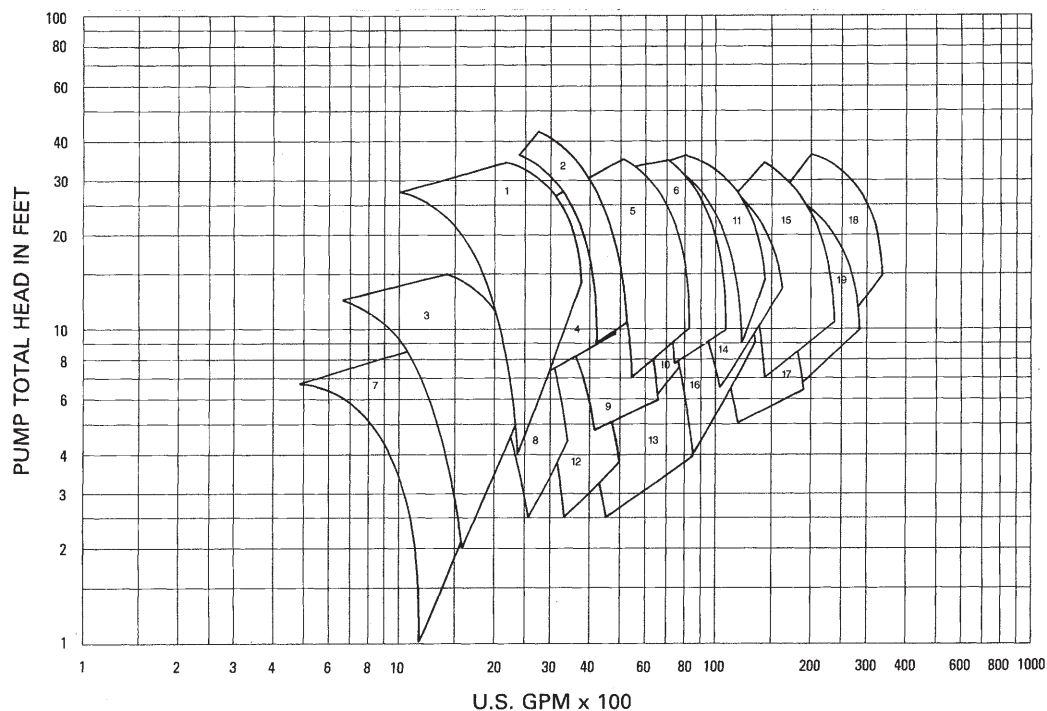
600 RPM

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514 RPM

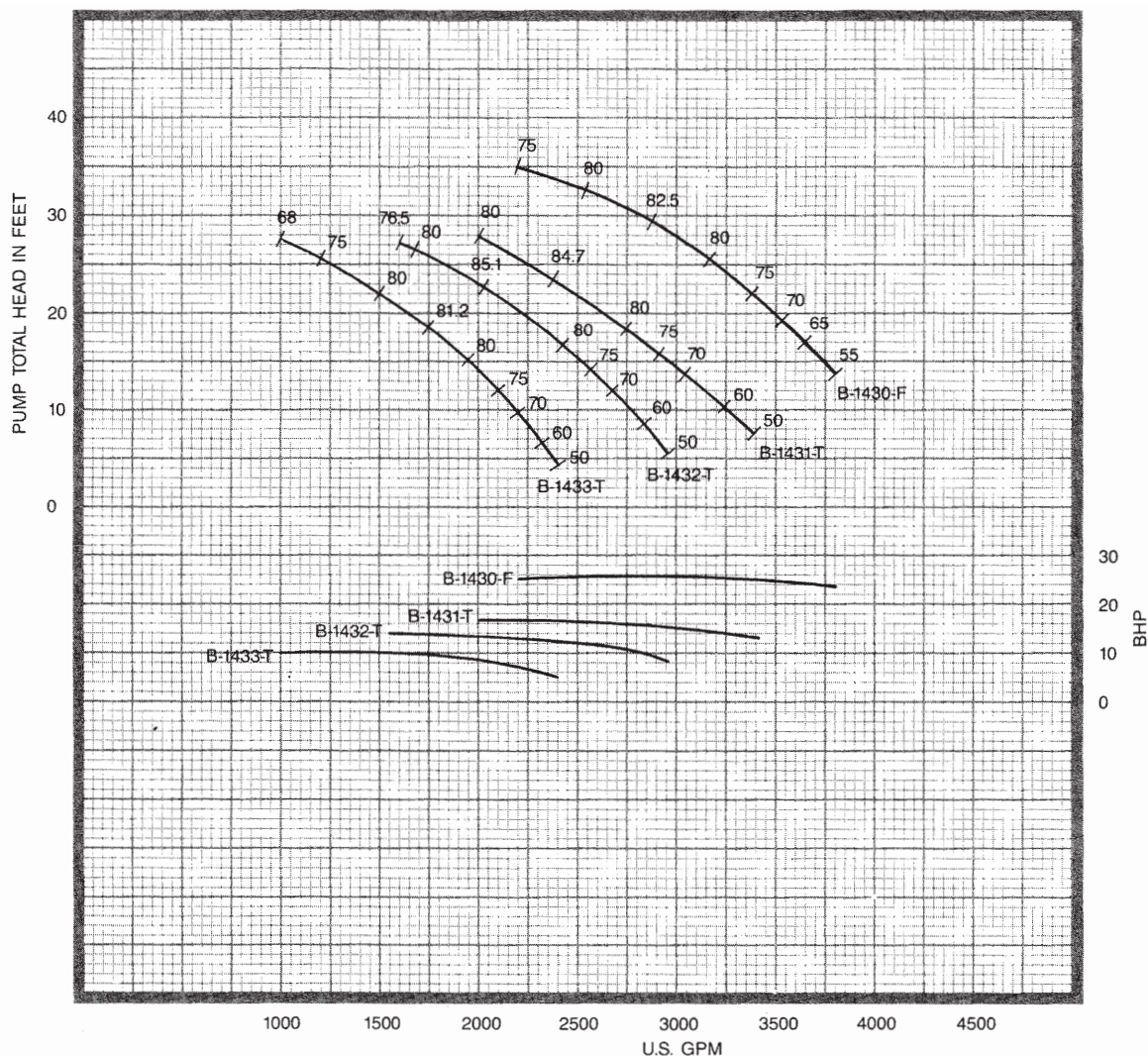
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30" 8312, 2 Stages, 30" Column & Elbow	080
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Hydraulic performance is contingent upon furnishing pump with specified amount of clear, fresh, non-aerated water not to exceed 85° F.

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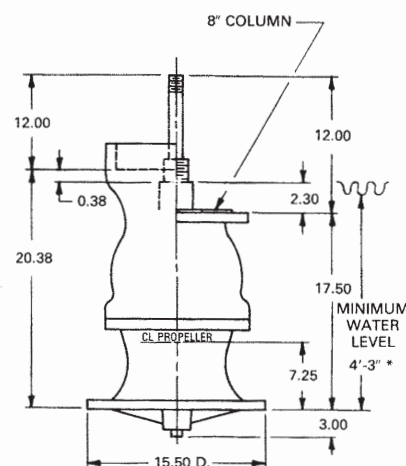
10"
8312
1770
RPM
1
STAGE

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 _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	17 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	1.1 LBS.-FT. ²
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.

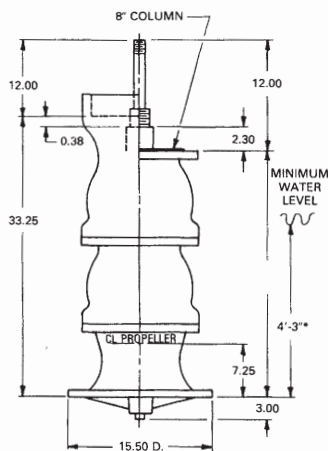
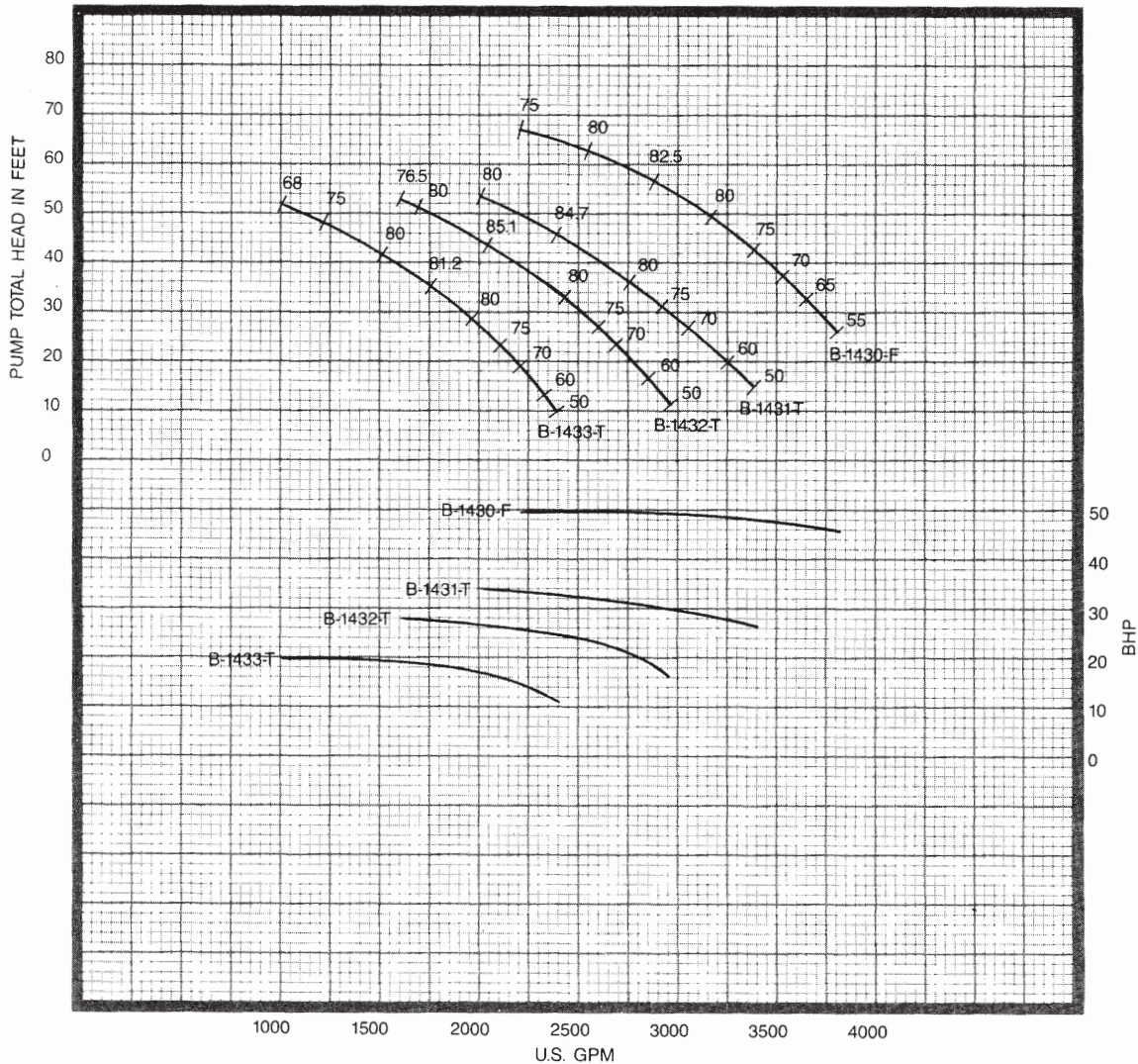
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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

10"
8312
1770
RPM
2
STAGE

10"
COLUMN
10"
CAST IRON
ELBOW
1-1/4"
LINESHAFT
2"
ENCLOSING
TUBE

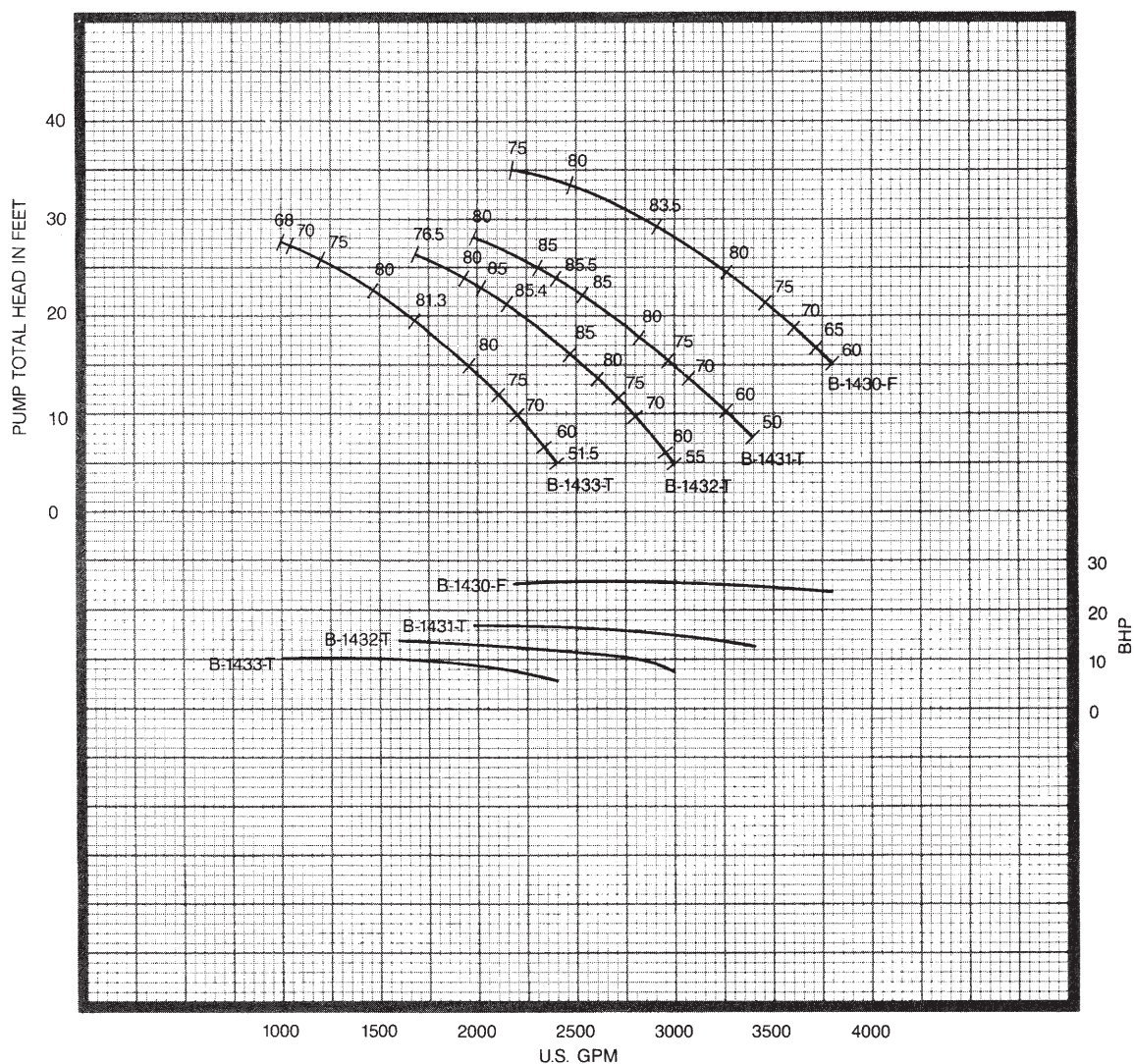


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DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	34 LBS.
K _s (SETTING CONSTANT)	3.8 LBS./FT.
WK ²	2.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	385 LBS.
EYE AREA: PROPELLER NO. 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.



10"
8312
1770
RPM
1
STAGE

12"
COLUMN

12"
CAST IRON
ELBOW

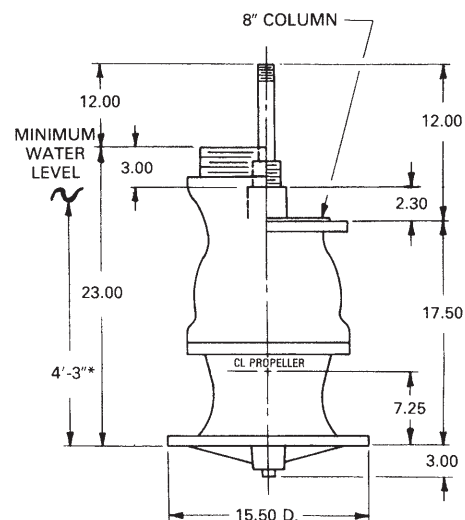
1"
LINESHAFT

1-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	17 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	1.1 LBS.-FT. ²
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.	

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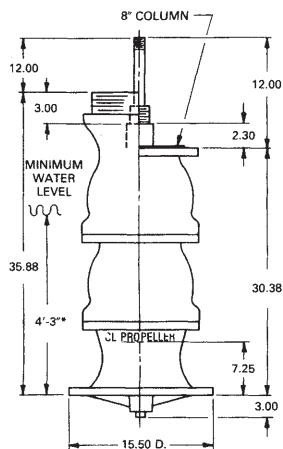
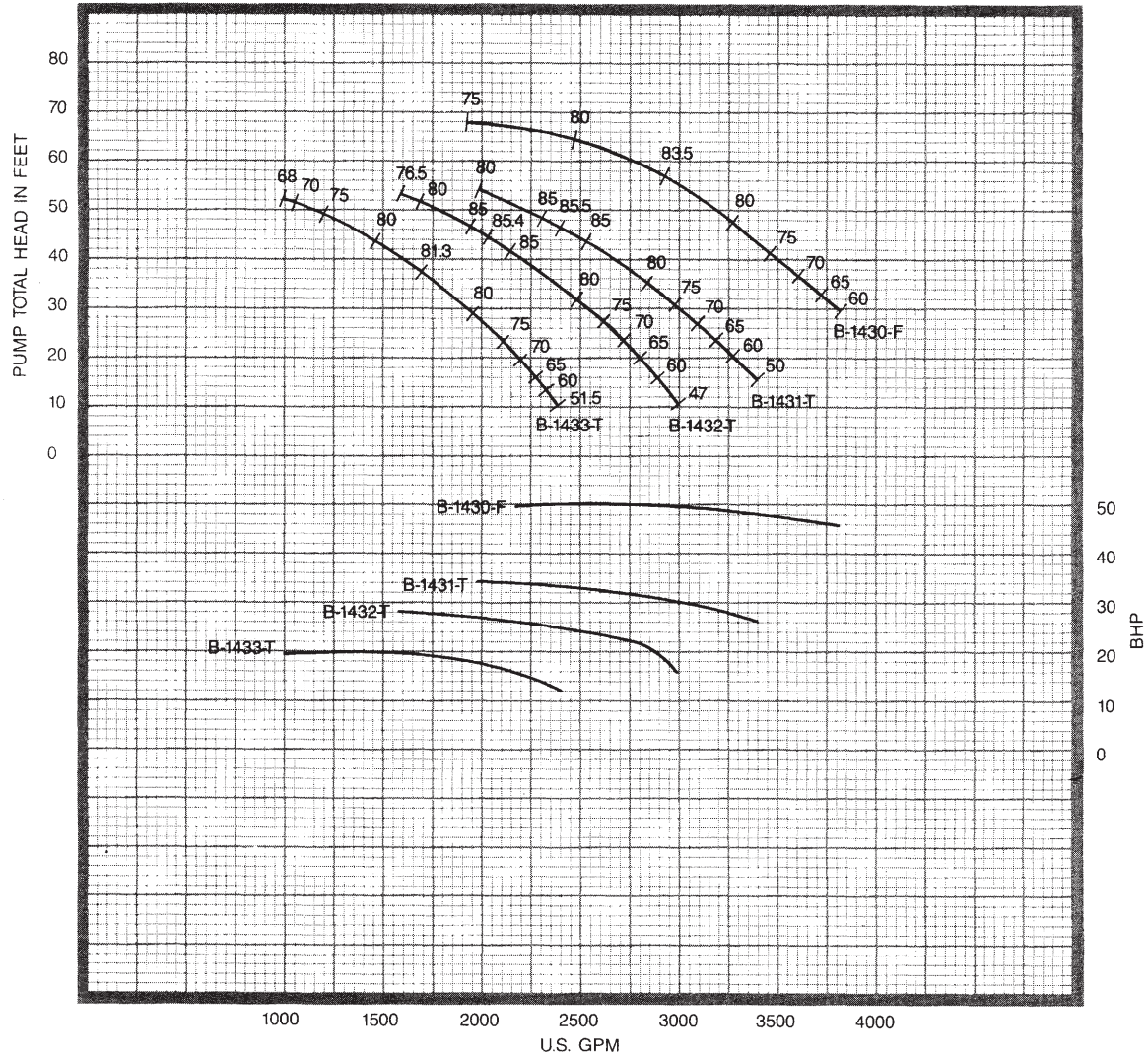
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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10"
8312
1770
RPM
2
STAGE

12"
COLUMN
12"
CAST IRON
ELBOW
1-1/4"
LINESHAFT
2"
ENCLOSING
TUBE

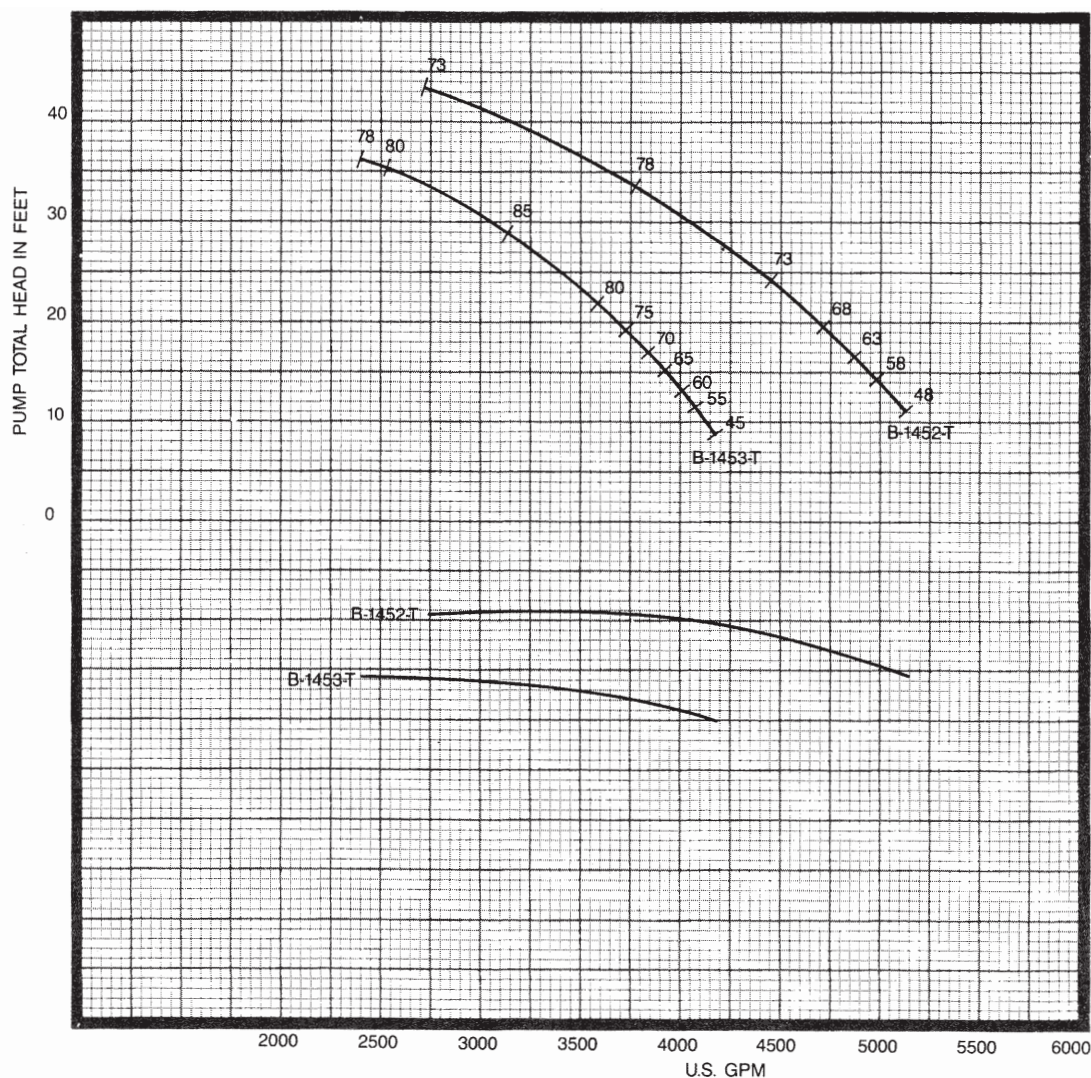


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DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	34 LBS.
K _s (SETTING CONSTANT)	3.8 LBS./FT.
WK ²	2.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	445 LBS.
EYE AREA: PROPELLER NO. 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.	

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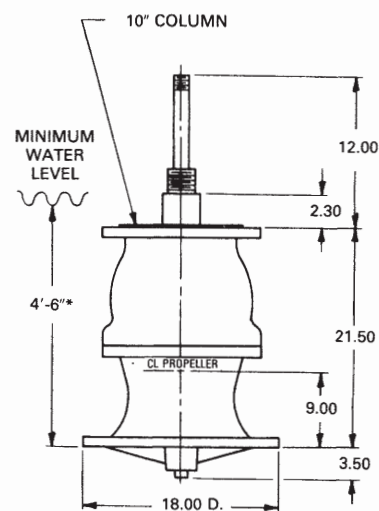
12"
8312
1770
RPM
1
STAGE

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

DATA	VALUE
PUMP SHAFT DIAMETER	1.4375 IN.
MAXIMUM SPHERE SIZE	1.88 IN.
K _t (THRUST FACTOR)	31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	28 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	3.1 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	430 LBS.
EYE AREA: PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1453-T	63.0 SQ. IN. 3 VANE
PROPELLER NO.	
PROPELLER NO.	
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.

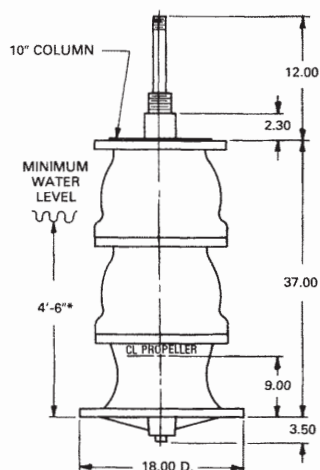
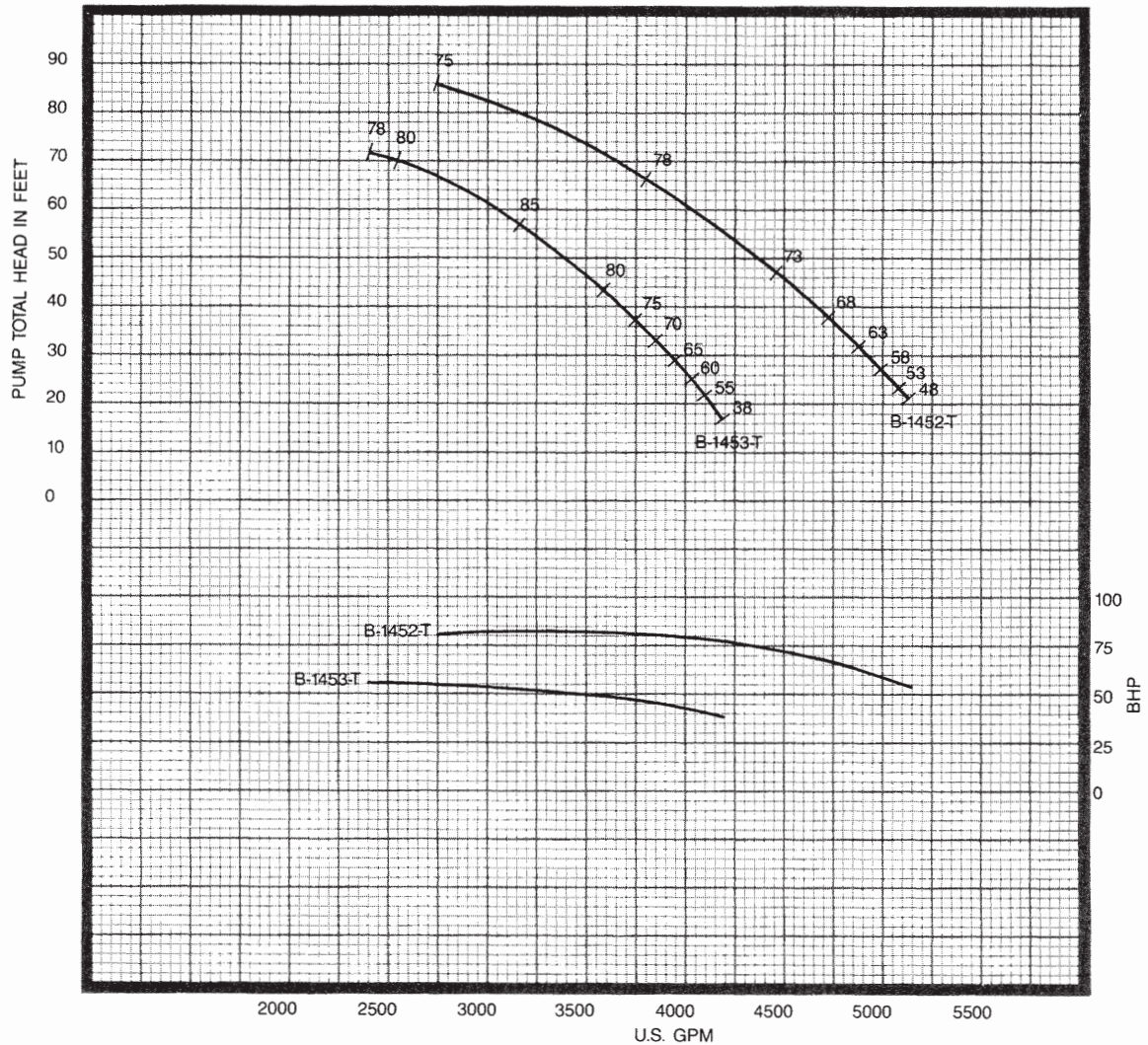
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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12"
8312
1770
RPM
2
STAGE

12"
COLUMN
12"
CAST IRON
ELBOW
1-1/4"
LINESHAFT
2"
ENCLOSING
TUBE

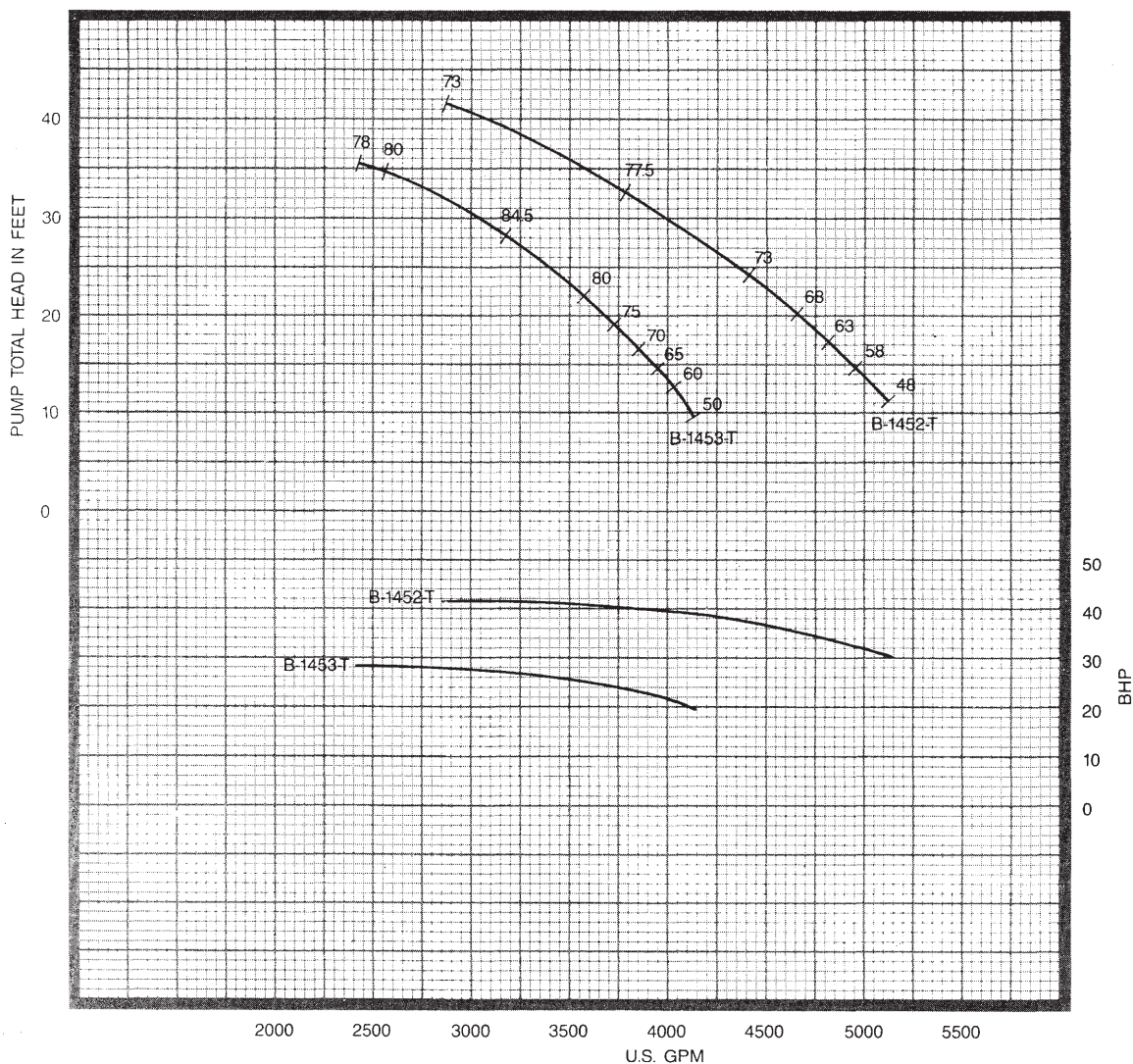


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DATA	VALUE
PUMP SHAFT DIAMETER	1.4375 IN.
MAXIMUM SPHERE SIZE	1.88 IN.
K _t (THRUST FACTOR)	31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	56 LBS.
K _s (SETTING CONSTANT)	3.8 LBS./FT.
WK ²	6.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	650 LBS.
EYE AREA: PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1453-T	63.0 SQ. IN. 3 VANE
PROPELLER NO.	
PROPELLER NO.	
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.

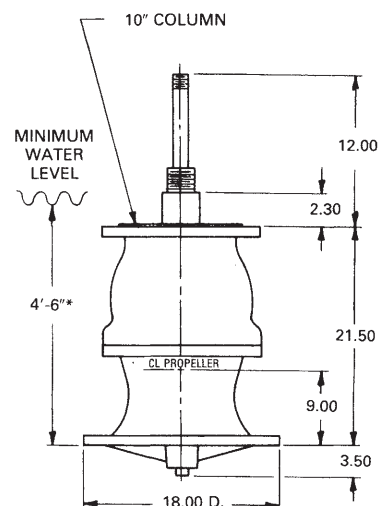
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



DATA	VALUE
PUMP SHAFT DIAMETER	1.4375 IN.
MAXIMUM SPHERE SIZE	1.88 IN.
K _t (THRUST FACTOR)	31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	28 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	3.1 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	430 LBS.
EYE AREA: PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1453-T	63.0 SQ. IN. 3 VANE
PROPELLER NO.	
PROPELLER NO.	
PROPELLER NO.	
PROPELLER NO.	

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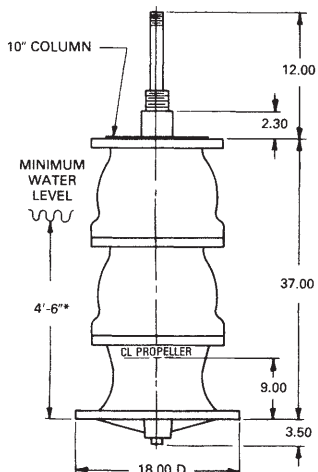
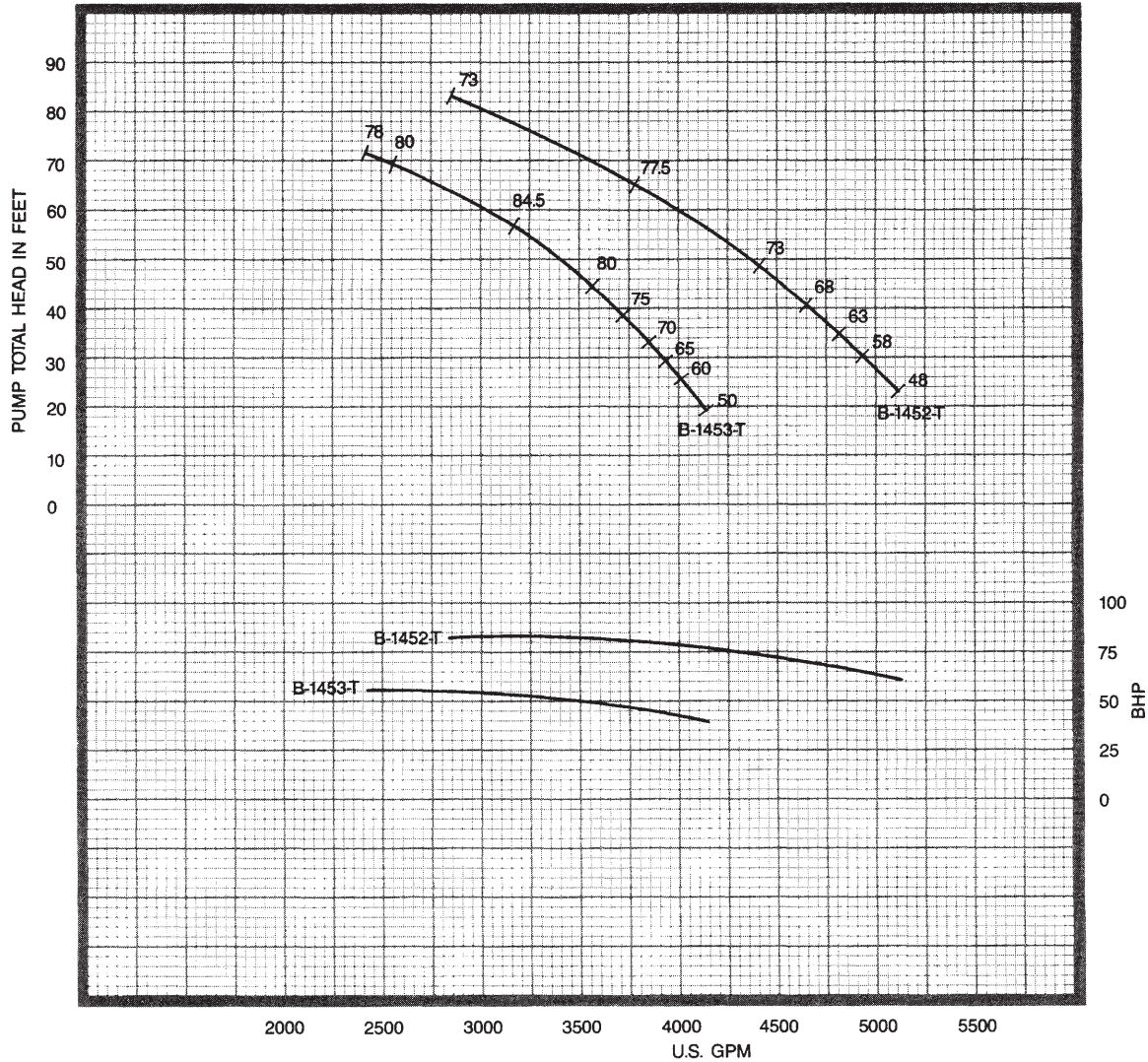
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12"
8312
1770
RPM
2
STAGE

14"
COLUMN
14"
CAST IRON
ELBOW
1-1/4"
LINESHAFT
2"
ENCLOSING
TUBE

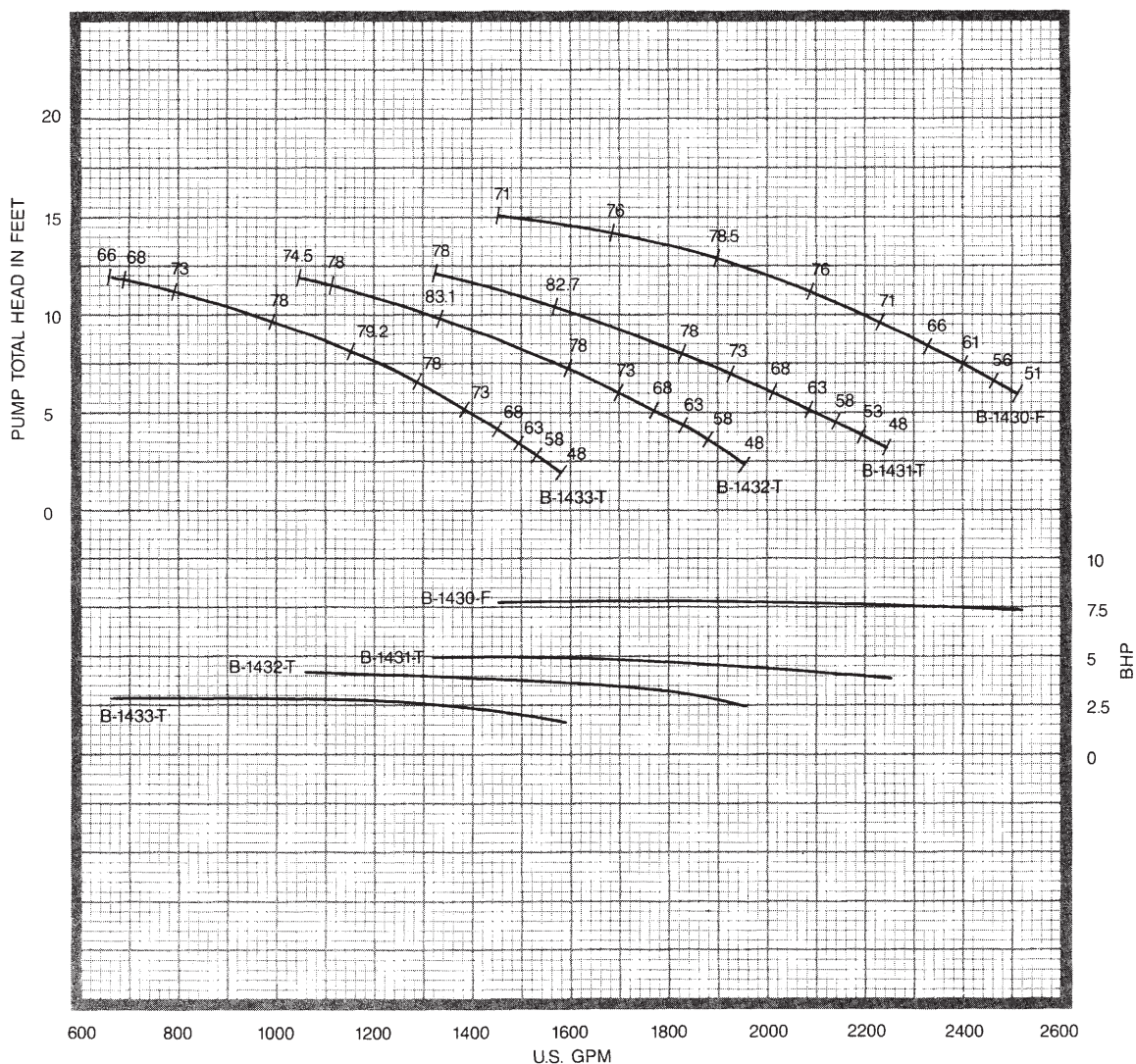


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DATA		VALUE
PUMP SHAFT DIAMETER		1.4375 IN.
MAXIMUM SPHERE SIZE		1.88 IN.
K _t (THRUST FACTOR)		31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		56LBS.
K _s (SETTING CONSTANT)		3.8 LBS./FT.
WK ²		6.2 LBS./FT. ²
BOWL ASSEMBLY WEIGHT		650 LBS.
EYE AREA:	PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
	PROPELLER NO. B-1453-T	63.0 SQ. IN. 3 VANE
	PROPELLER NO.	
	PROPELLER NO.	
	PROPELLER NO.	
	PROPELLER NO.	

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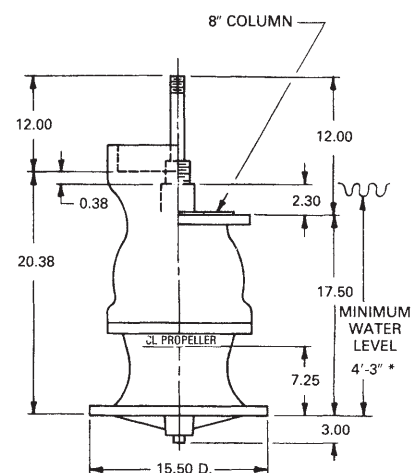
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DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	17 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	1.1 LBS./FT ²
BOWL ASSEMBLY WEIGHT	265 LBS.
EYE AREA: PROPELLER NO. B-1430-F	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
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PROPELLER NO.	
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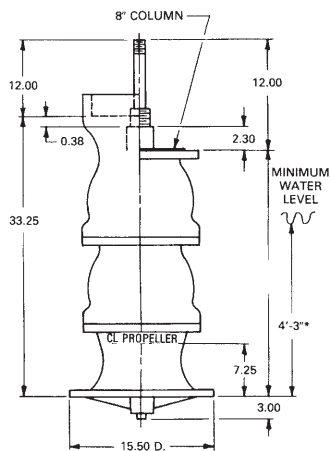
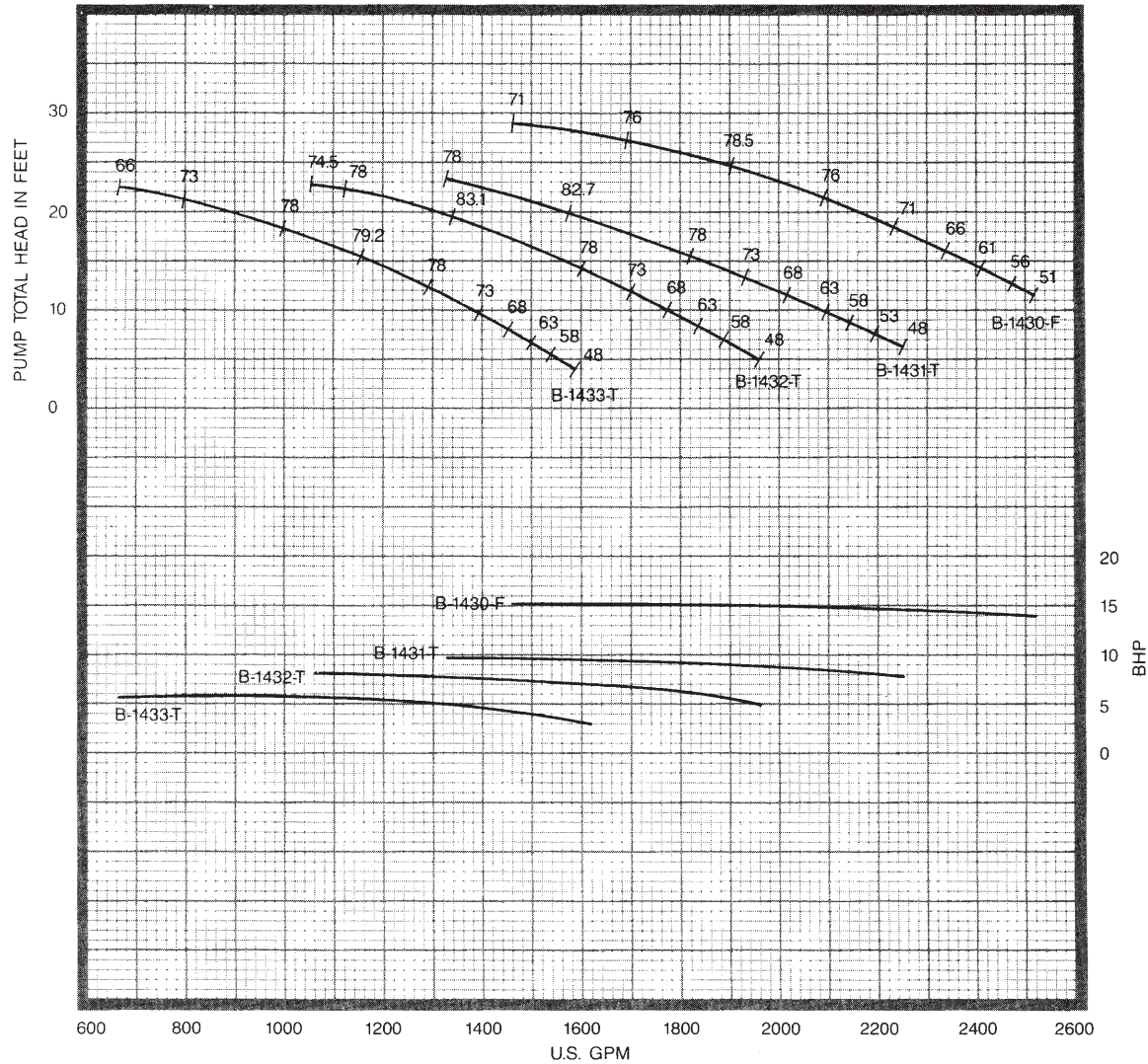
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10"
8312
1170
RPM
2
STAGE

10"
COLUMN
10"
CAST IRON
ELBOW
1-1/4"
LINESHAFT
2"
ENCLOSING
TUBE

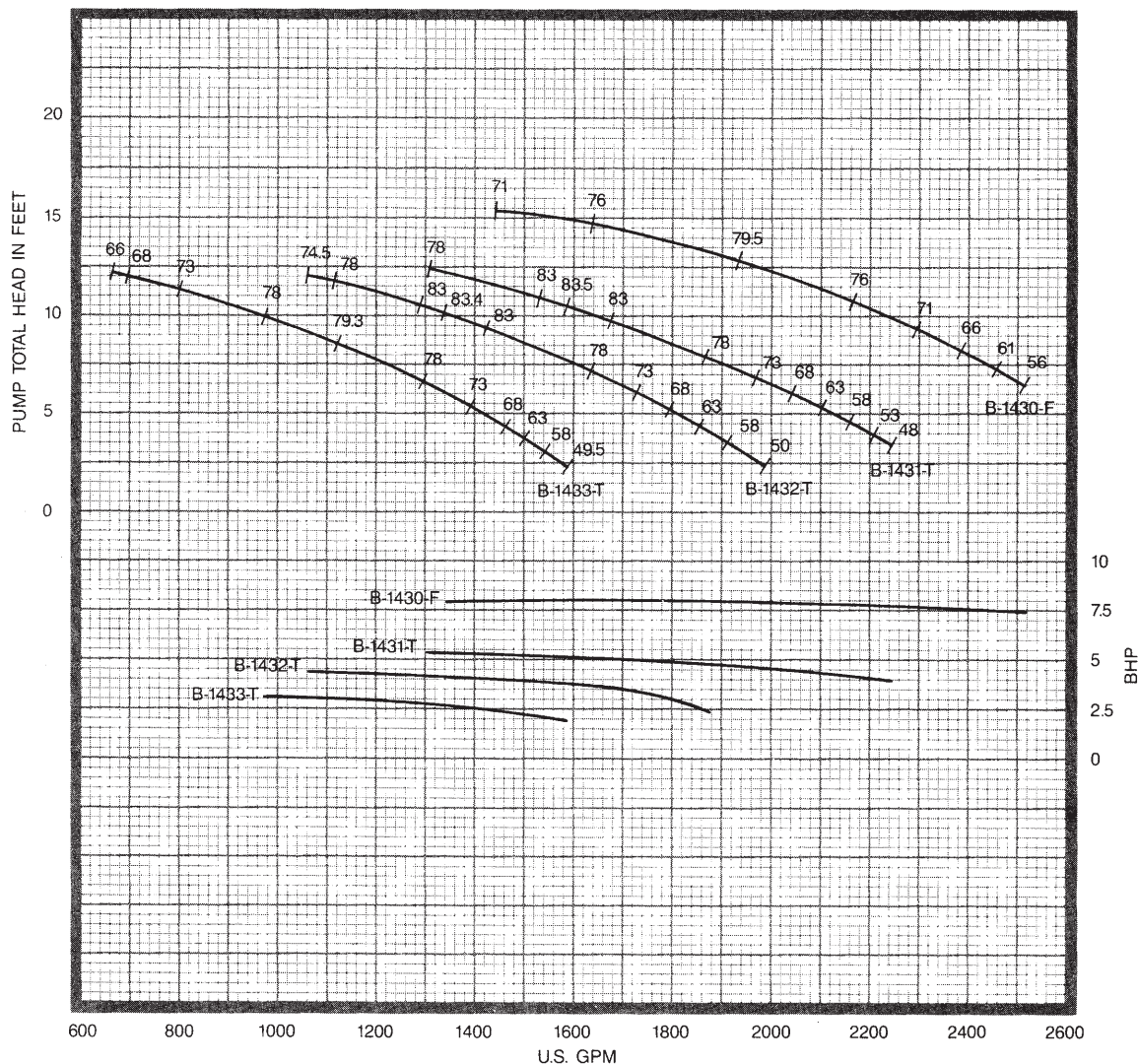


DATA		VALUE
PUMP SHAFT DIAMETER		1.1875 IN.
MAXIMUM SPHERE SIZE		1.5 IN.
K _t (THRUST FACTOR)		20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		34 LBS.
K _s (SETTING CONSTANT)		3.8 LBS./FT.
WK ²		2.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		385 LBS.
EYE AREA: PROPELLER NO. B-1430-F		41.0 SQ. IN. 4 VANE
PROPELLER NO. B-1431-T		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.

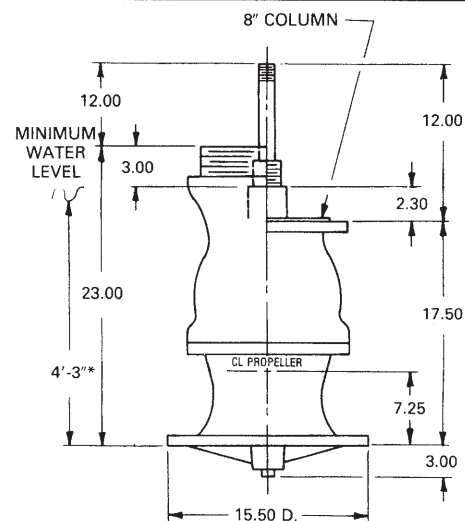
*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.



DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	17 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	1.1 LBS.-FT. ²
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.

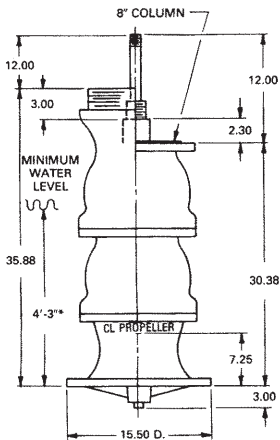
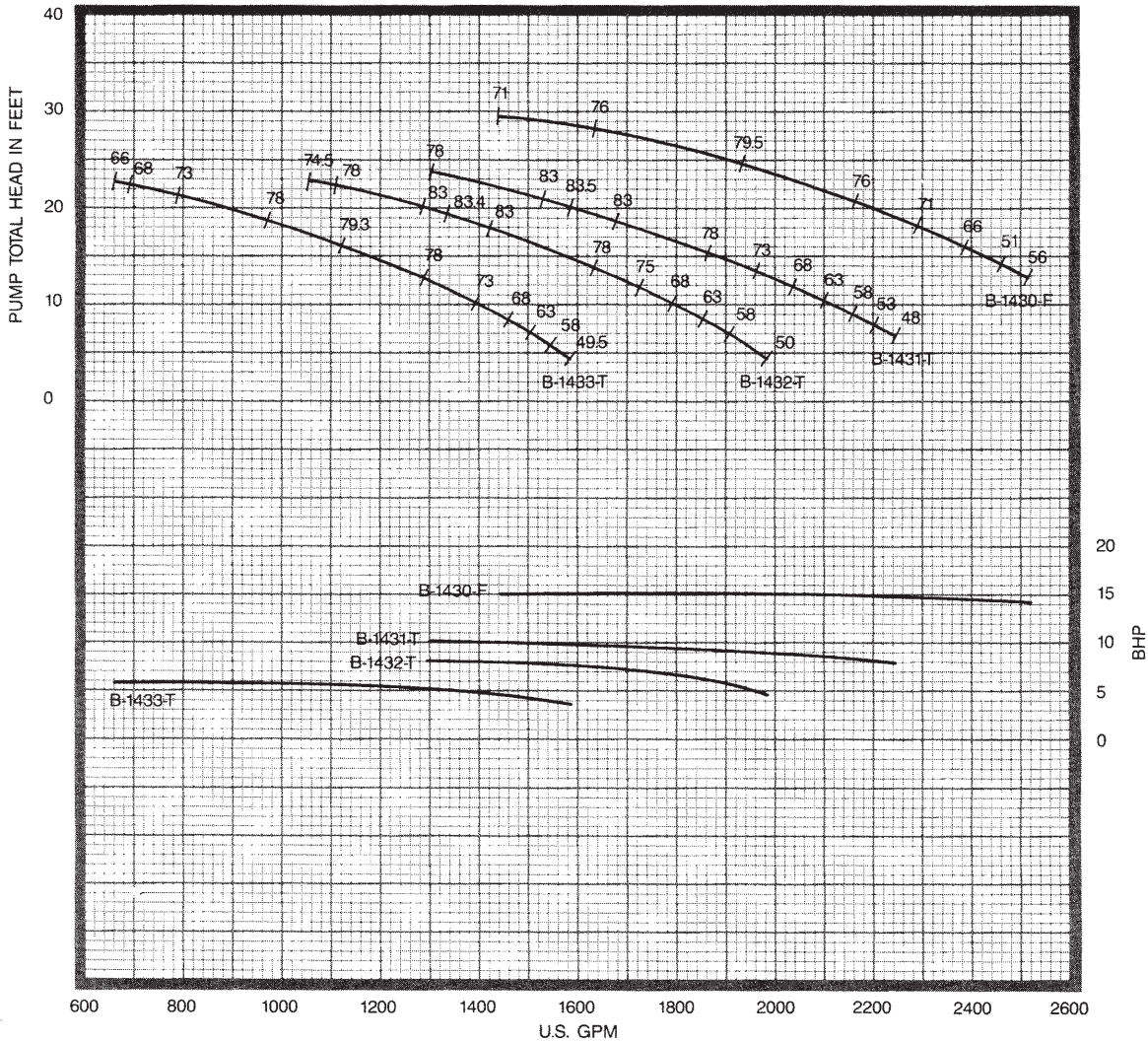
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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

10"
8312
1170
RPM
2
STAGE

12"
COLUMN
12"
CAST IRON
ELBOW
1-1/4"
LINESHAFT
2"
ENCLOSING
TUBE

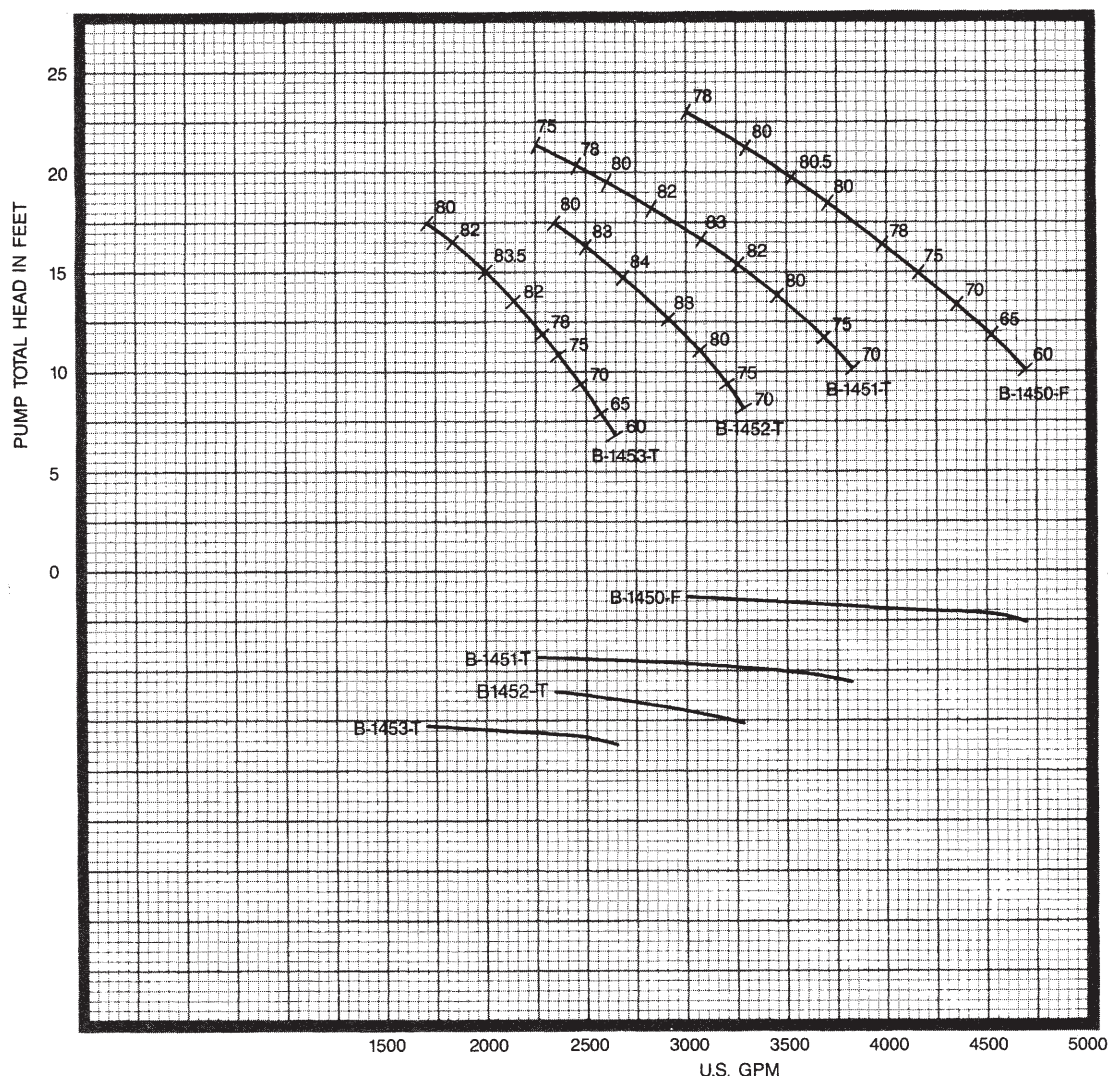


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE	
PUMP SHAFT DIAMETER		1.1875 IN.	
MAXIMUM SPHERE SIZE		1.5 IN.	
K _t (THRUST FACTOR)		20 LBS./FT.	
K _a (TOTAL ROTOR WEIGHT)		34 LBS.	
K _s (SETTING CONSTANT)		3.8 LBS./FT.	
		2.2 LBS.-FT. ²	
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 ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



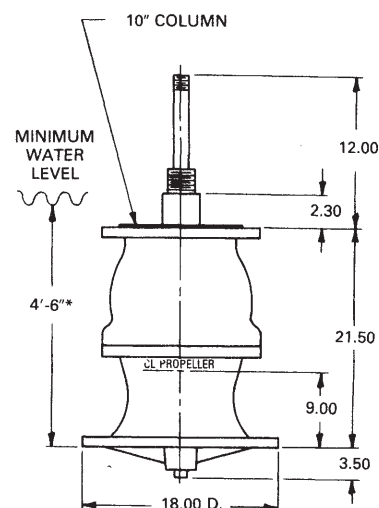
12"
8312
1180
RPM
1
STAGE

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

DATA	VALUE
PUMP SHAFT DIAMETER	1.4375 IN.
MAXIMUM SPHERE SIZE	1.88 IN.
K _t (THRUST FACTOR)	31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	28 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	3.1 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	430 LBS.
EYE AREA: PROPELLER NO. B-1450-F	63.0 SQ. IN. 4 VANE
PROPELLER NO. B-1451-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1453-T	63.0 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.



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12"
8312

1180
RPM

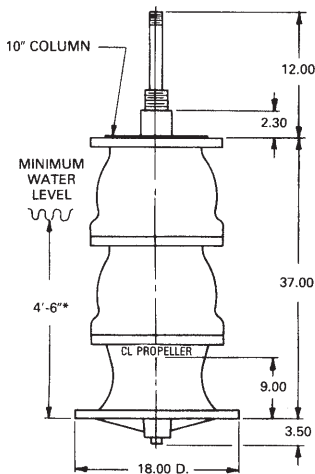
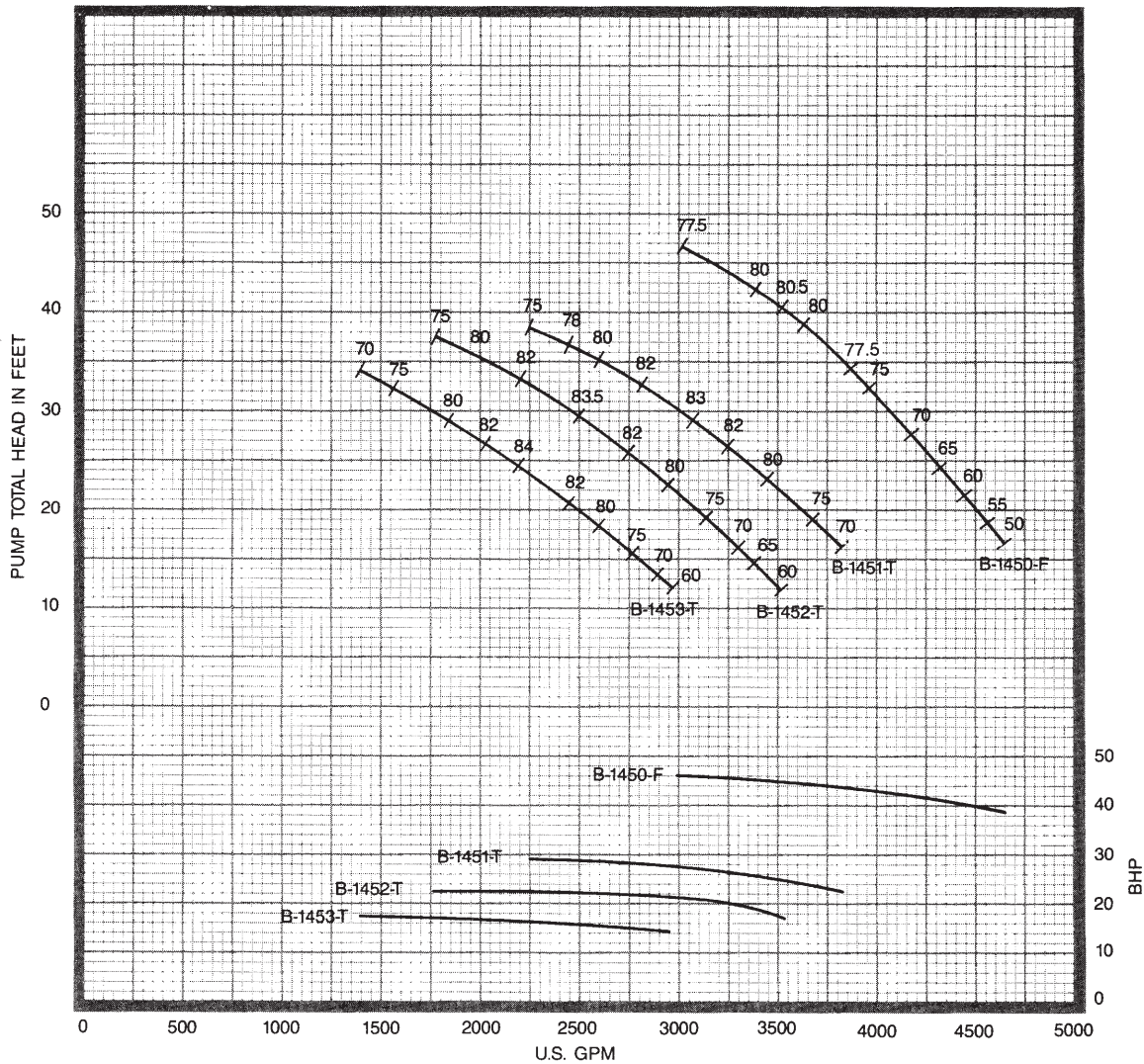
2
STAGE

12"
COLUMN

12"
CAST IRON
ELBOW

1-1/4"
LINESHAFT

2"
ENCLOSING
TUBE

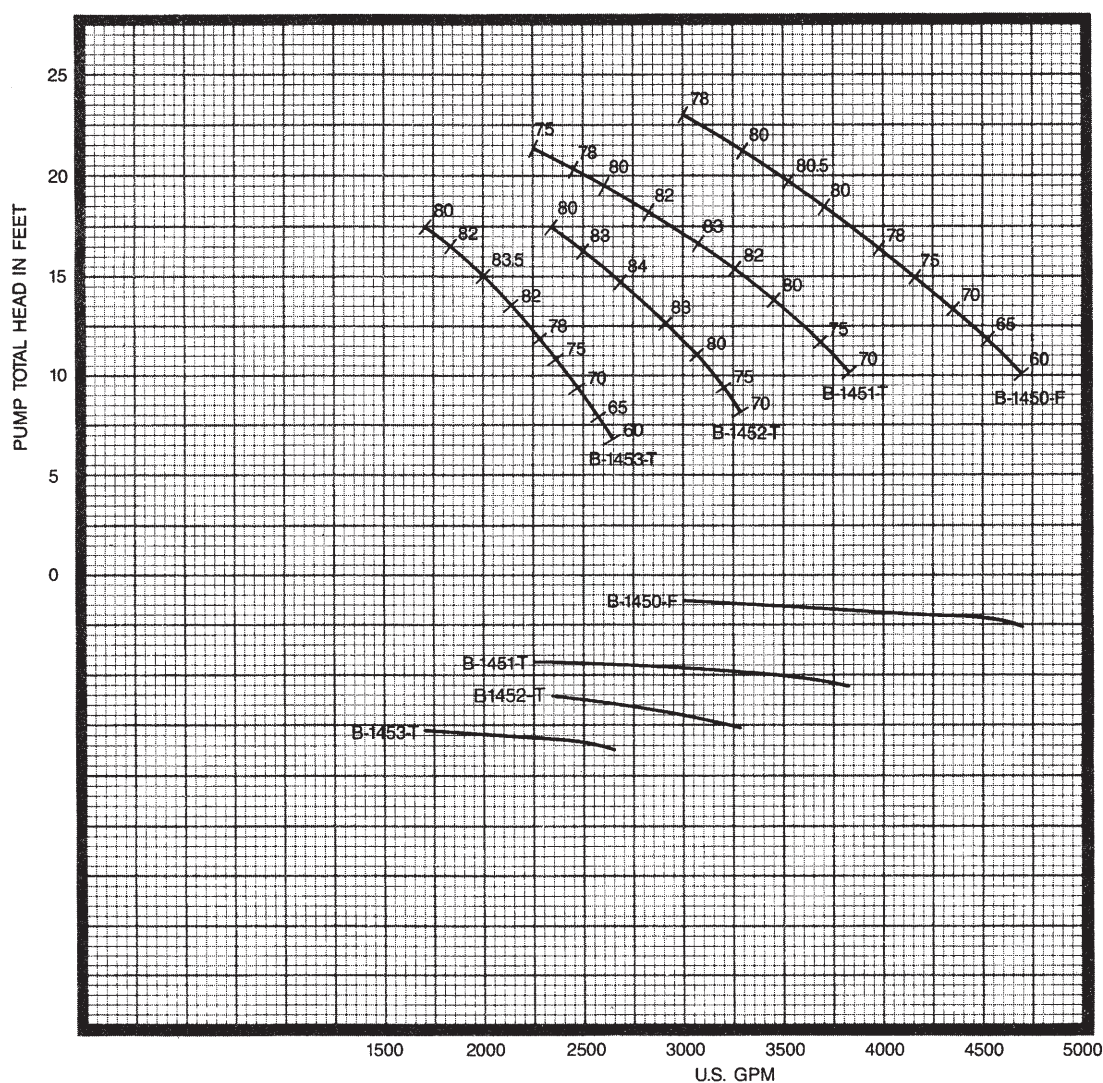


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.4375 IN.
MAXIMUM SPHERE SIZE		1.88 IN.
K _t (THRUST FACTOR)		31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		56 LBS.
K _s (SETTING CONSTANT)		3.8 LBS./FT.
WK ²		6.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		650 LBS.
EYE AREA: PROPELLER NO. B-1450-F		63.0 SQ. IN. 4 VANE
PROPELLER NO. B-1451-T		63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1452-T		63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1453-T		63.0 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.



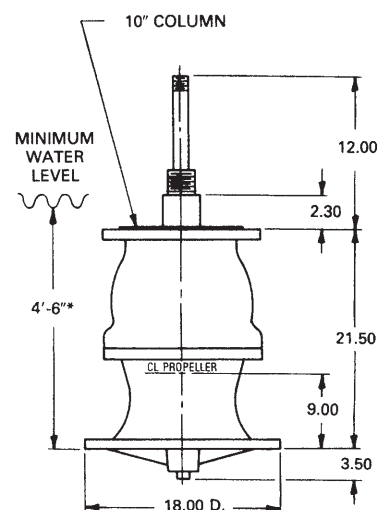
12"
8312
1170
RPM
1
STAGE

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

DATA	VALUE
PUMP SHAFT DIAMETER	1.4375 IN.
MAXIMUM SPHERE SIZE	1.88 IN.
K _t (THRUST FACTOR)	31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	28 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	3.1 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	430 LBS.
EYE AREA: PROPELLER NO. B-1450-F	63.0 SQ. IN. 4 VANE
PROPELLER NO. B-1451-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1453-T	63.0 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.



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12"
8312

1170
RPM

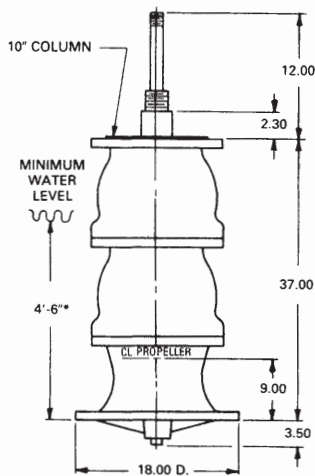
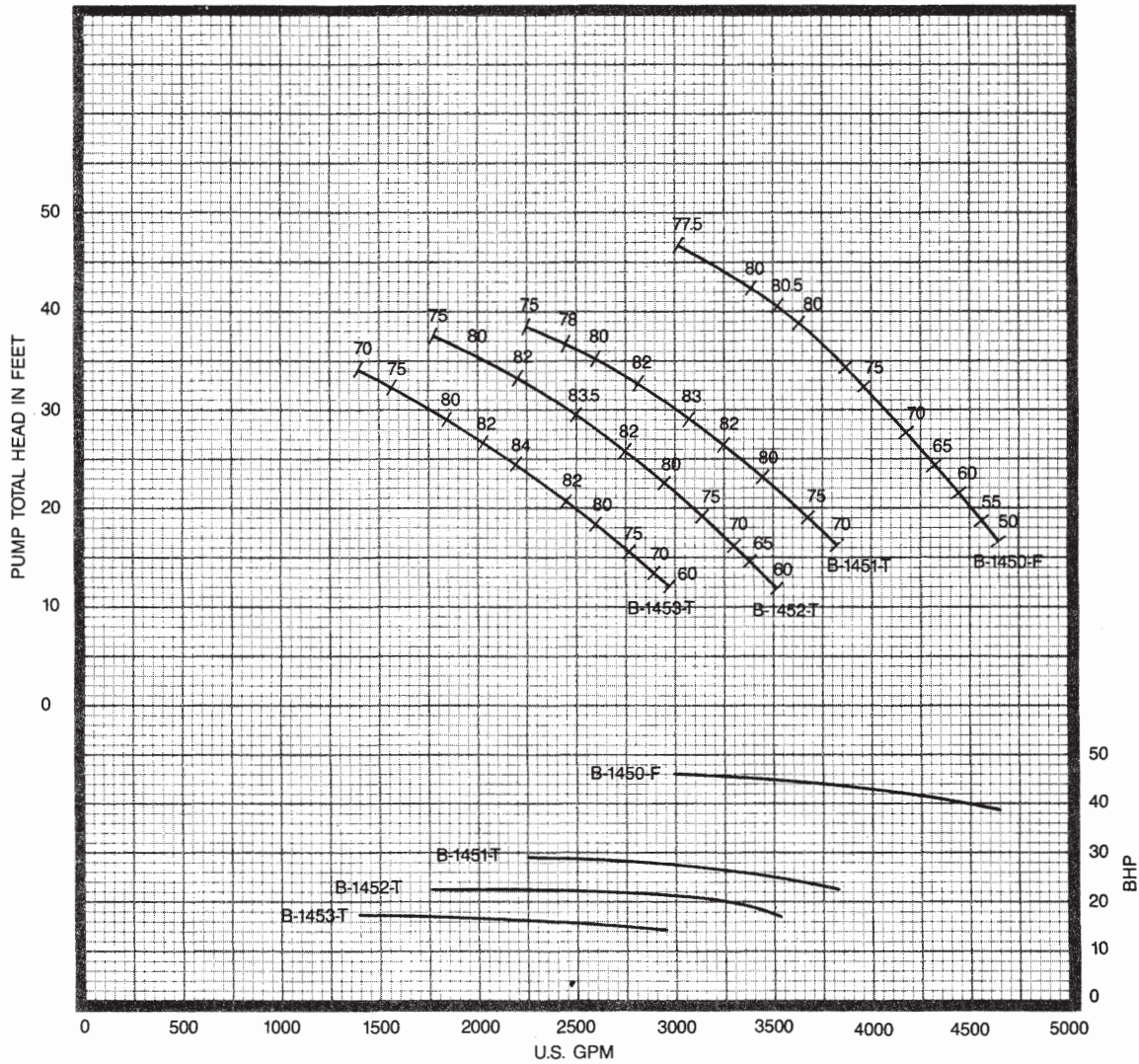
2
STAGE

14"
COLUMN

14"
CAST IRON
ELBOW

1-1/4"
LINESHAFT

2"
ENCLOSING
TUBE

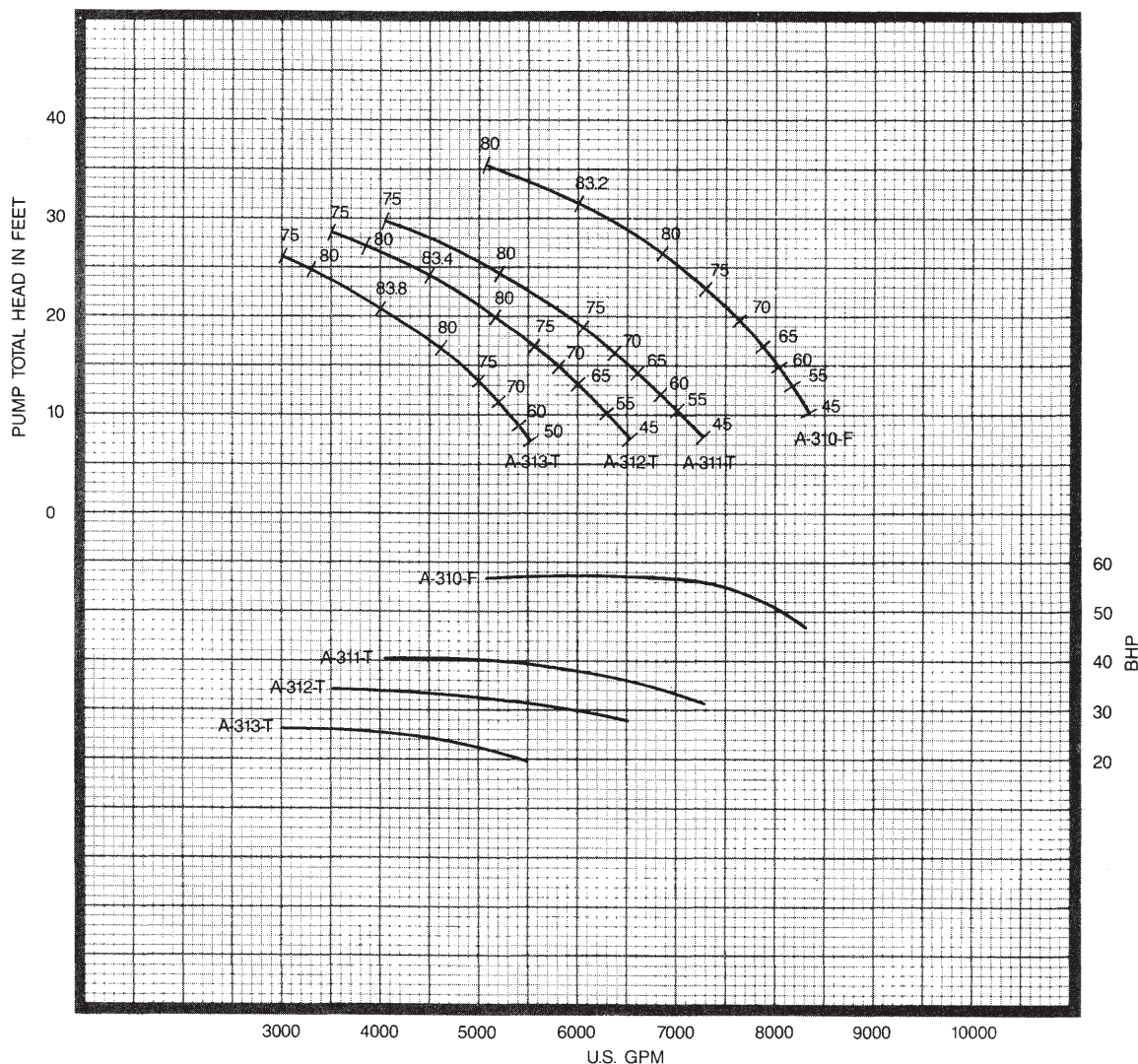


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.4375 IN.
MAXIMUM SPHERE SIZE		1.88 IN.
K _t (THRUST FACTOR)		31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		56 LBS.
K _s (SETTING CONSTANT)		3.8 LBS./FT.
WK ²		6.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		650 LBS.
EYE AREA: PROPELLER NO. B-1450-F		63.0 SQ. IN. 4 VANE
PROPELLER NO. B-1451-T		63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1452-T		63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1453-T		63.0 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.



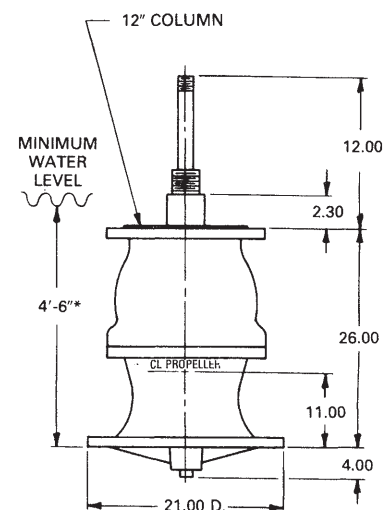
14"
8312
1170
RPM
1
STAGE

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 _t (THRUST FACTOR)	46 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	45 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	7.1 LBS.-FT. ²
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.



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14"
8312

1170
RPM

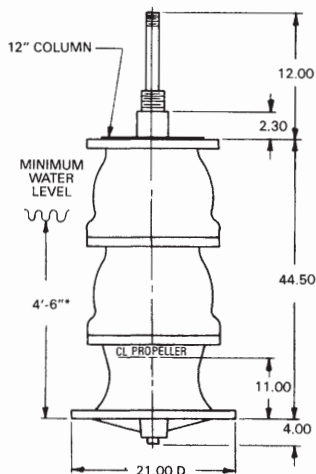
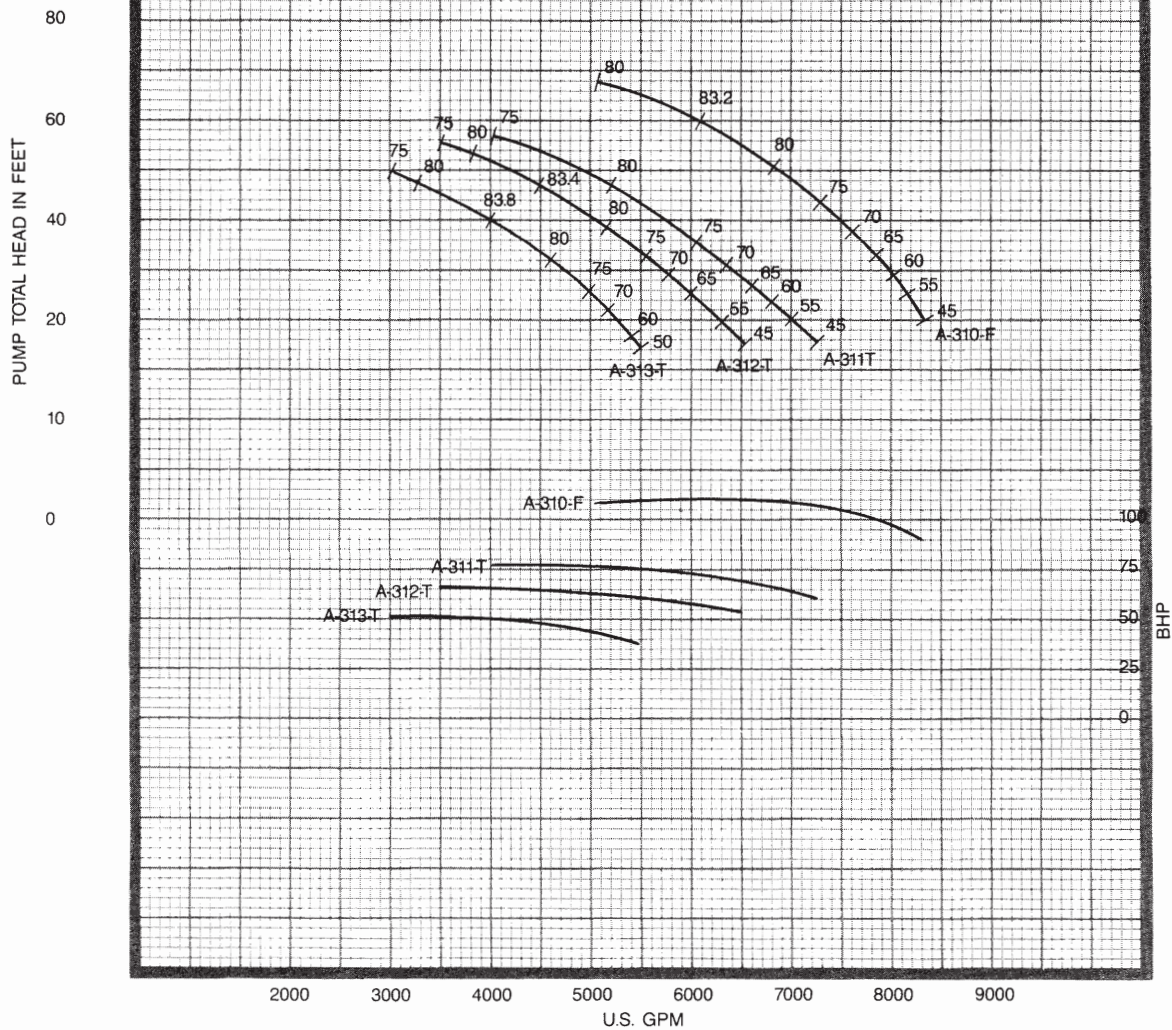
2
STAGE

14"
COLUMN

14"
CAST IRON
ELBOW

1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

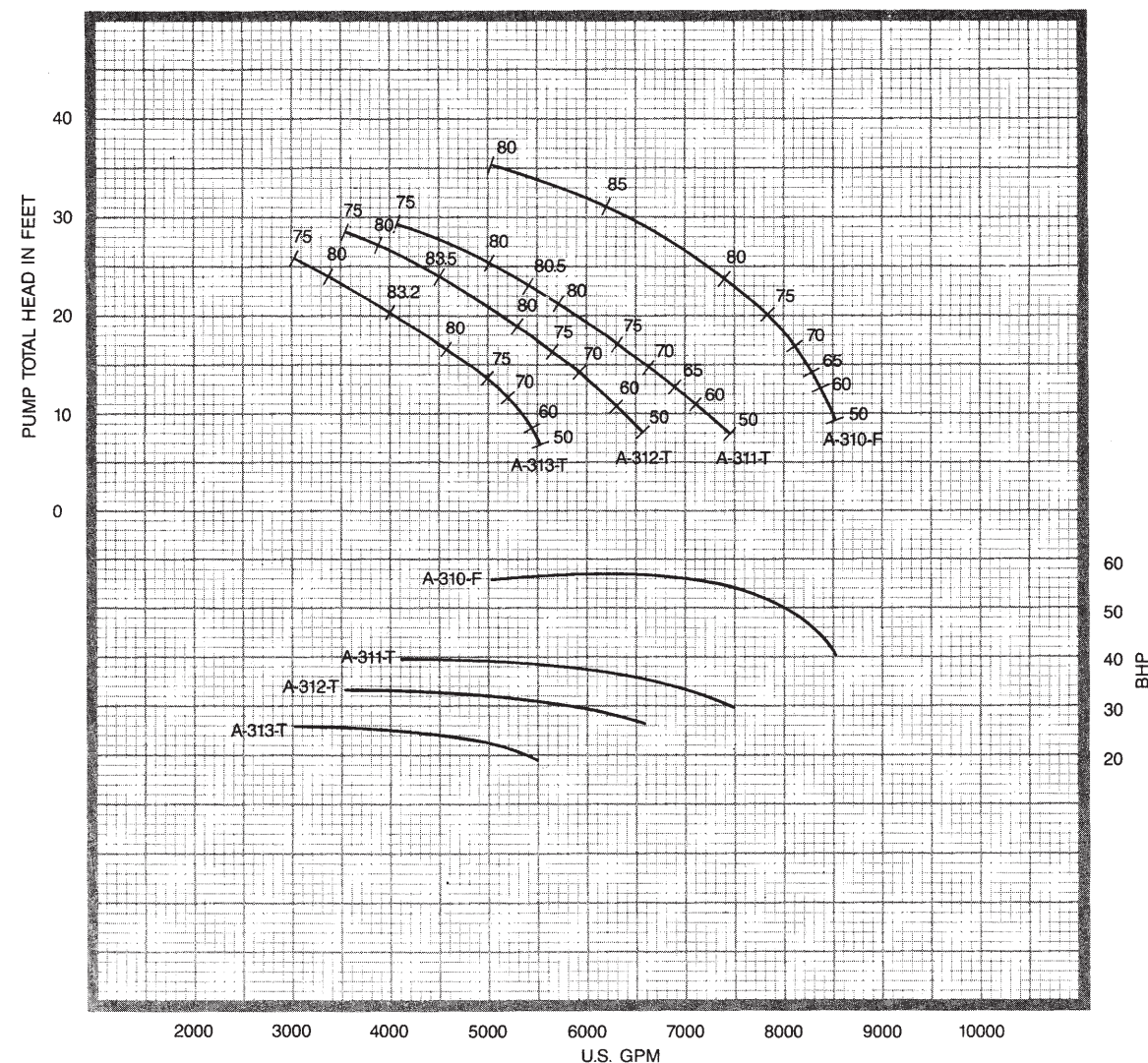


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DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.25 IN.
Kt (THRUST FACTOR)	46 LBS./FT.
Ka (TOTAL ROTOR WEIGHT)	90 LBS.
Ks (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	14.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	770 LBS.
EYE AREA: PROPELLER NO. A-310-F	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.



14"
8312
1170
RPM
1
STAGE

16"
COLUMN

16"
FABRICATED
STEEL ELBOW

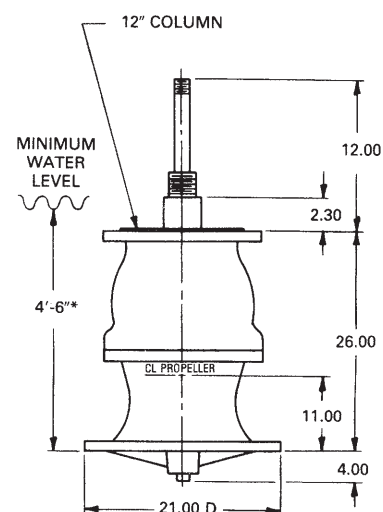
1-1/2"
LINESHAFT

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 _a (TOTAL ROTOR WEIGHT)	45 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	7.1 LBS.-FT. ²
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.



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14"
8312

1170
RPM

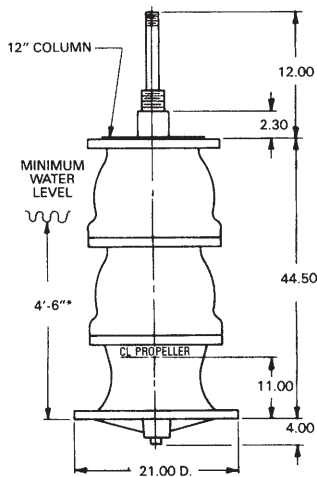
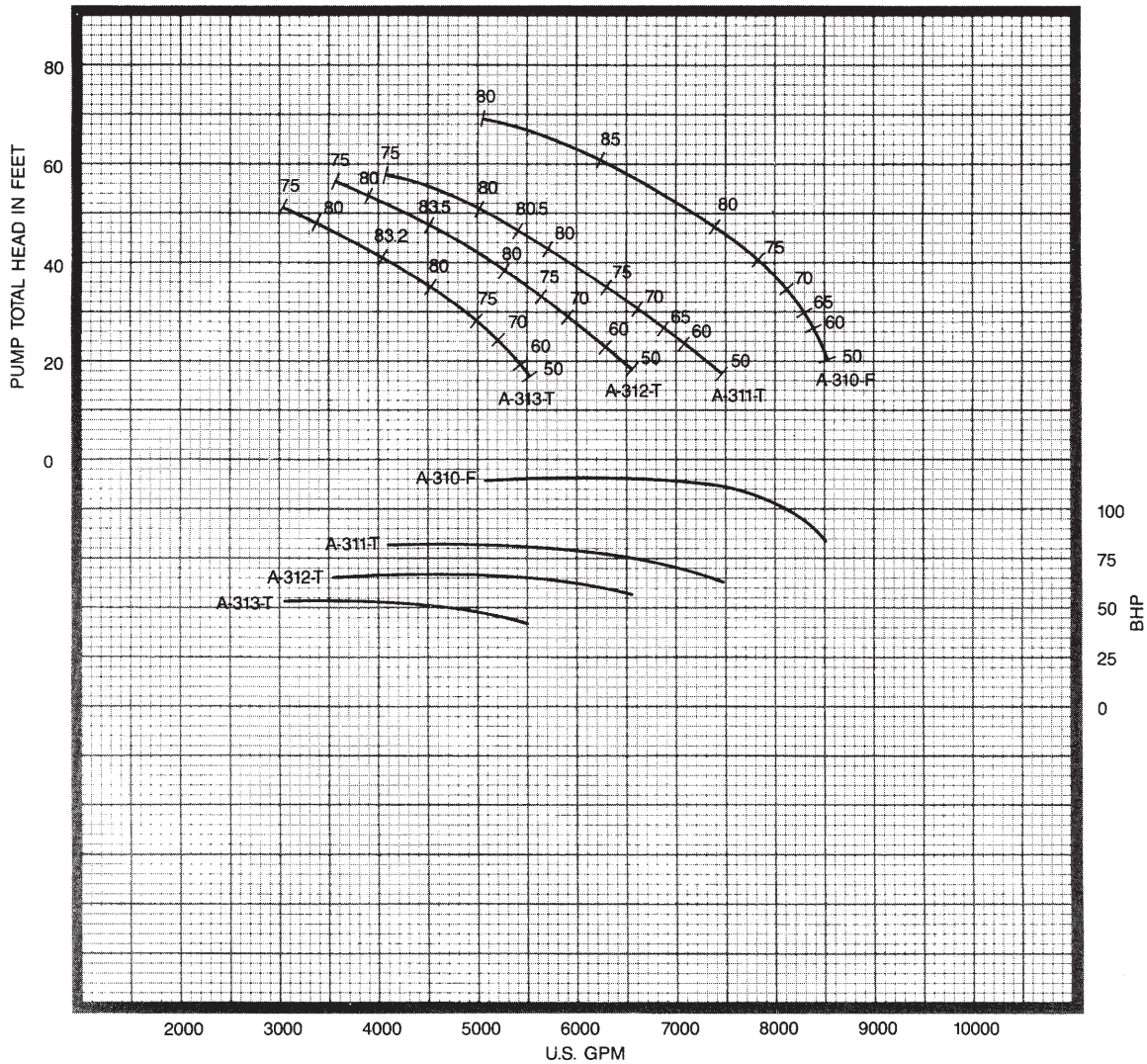
2
STAGE

16"
COLUMN

16"
FABRICATED
STEEL 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.

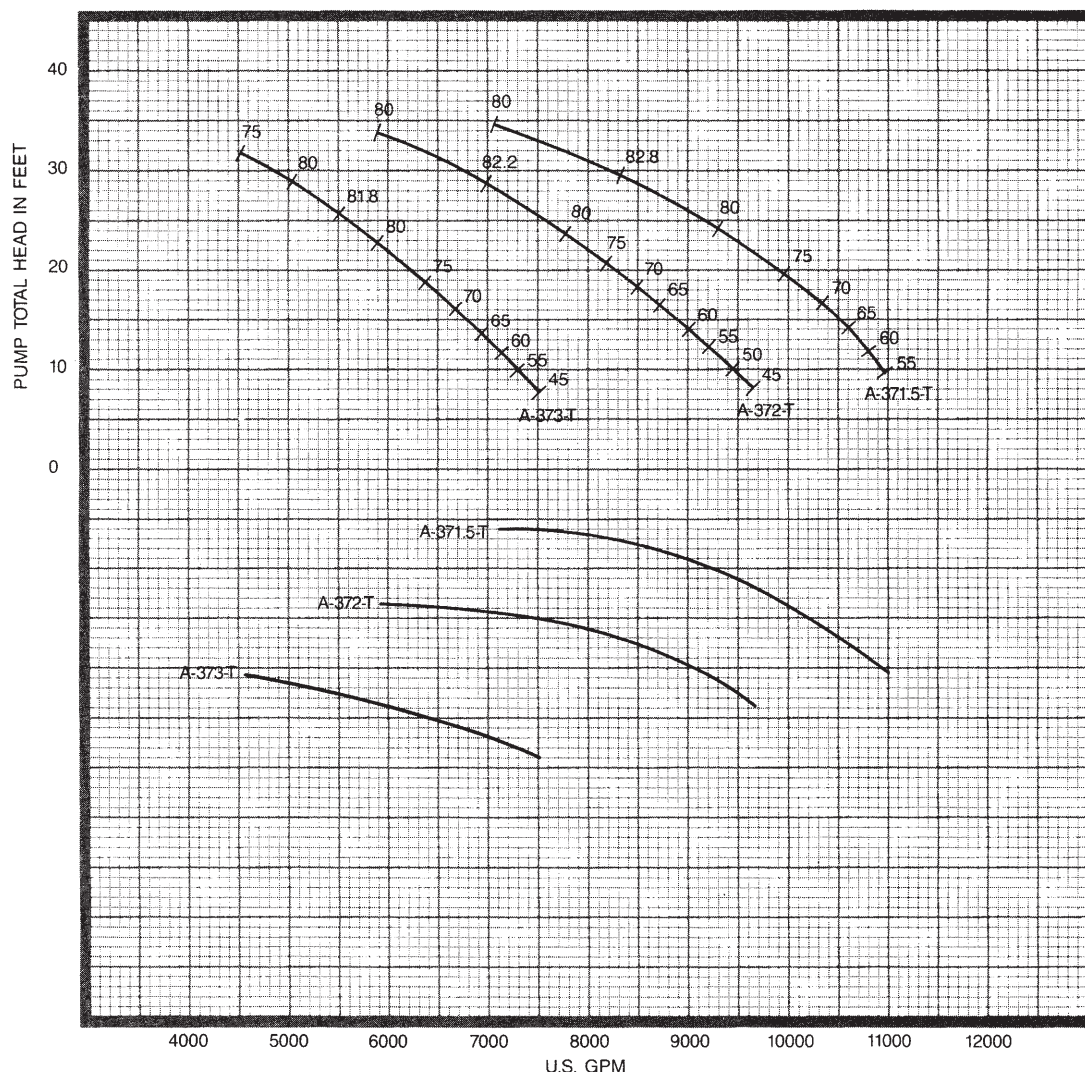
DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.25 IN.
K _t (THRUST FACTOR)	46 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	90 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	14.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	700 LBS.
EYE AREA: PROPELLER NO. A-310-F	92.0 SQ. IN. 4 VANE
PROPELLER NO. A-311-T	92.0 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.

16"
8312
1170
RPM
1
STAGE

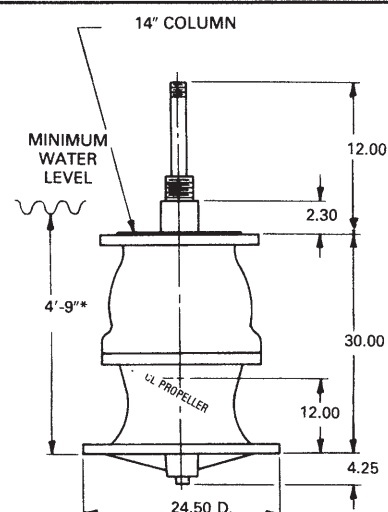
16"
COLUMN
16"
FABRICATED
STEEL ELBOW
1-1/2"
LINESHAFT
2-1/2"
ENCLOSING
TUBE



DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.63 IN.
K _t (THRUST FACTOR)	62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	66 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	14 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	625 LBS.
EYE AREA: PROPELLER NO. A-371.5-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-372-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T	124.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.

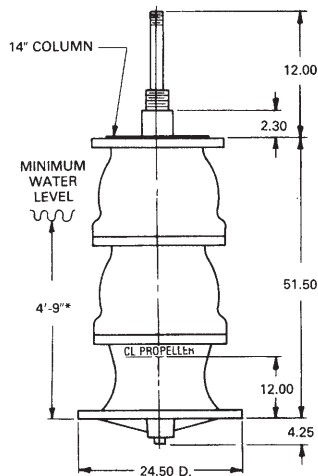
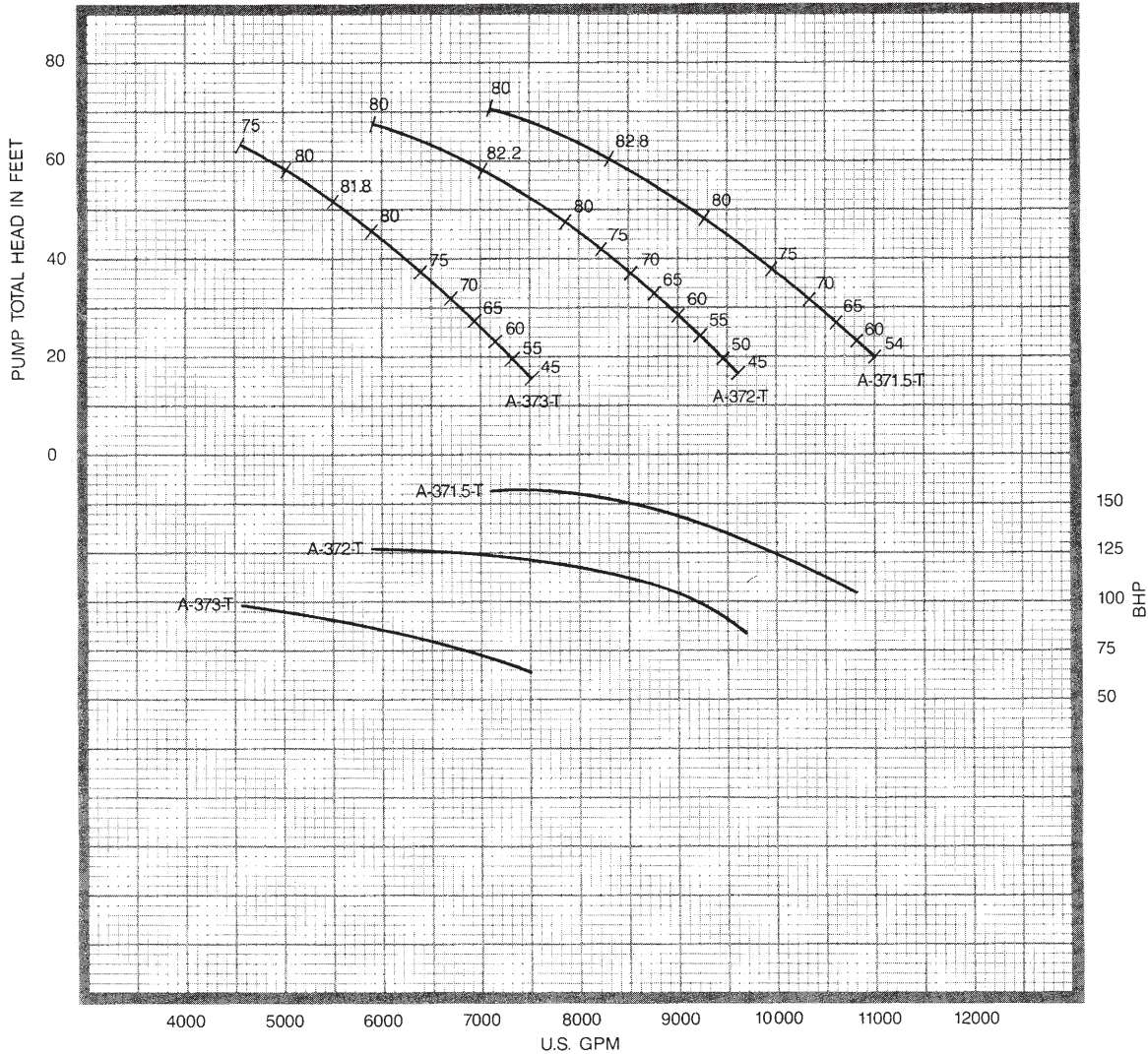
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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16"
8312
1170
RPM
2
STAGE

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

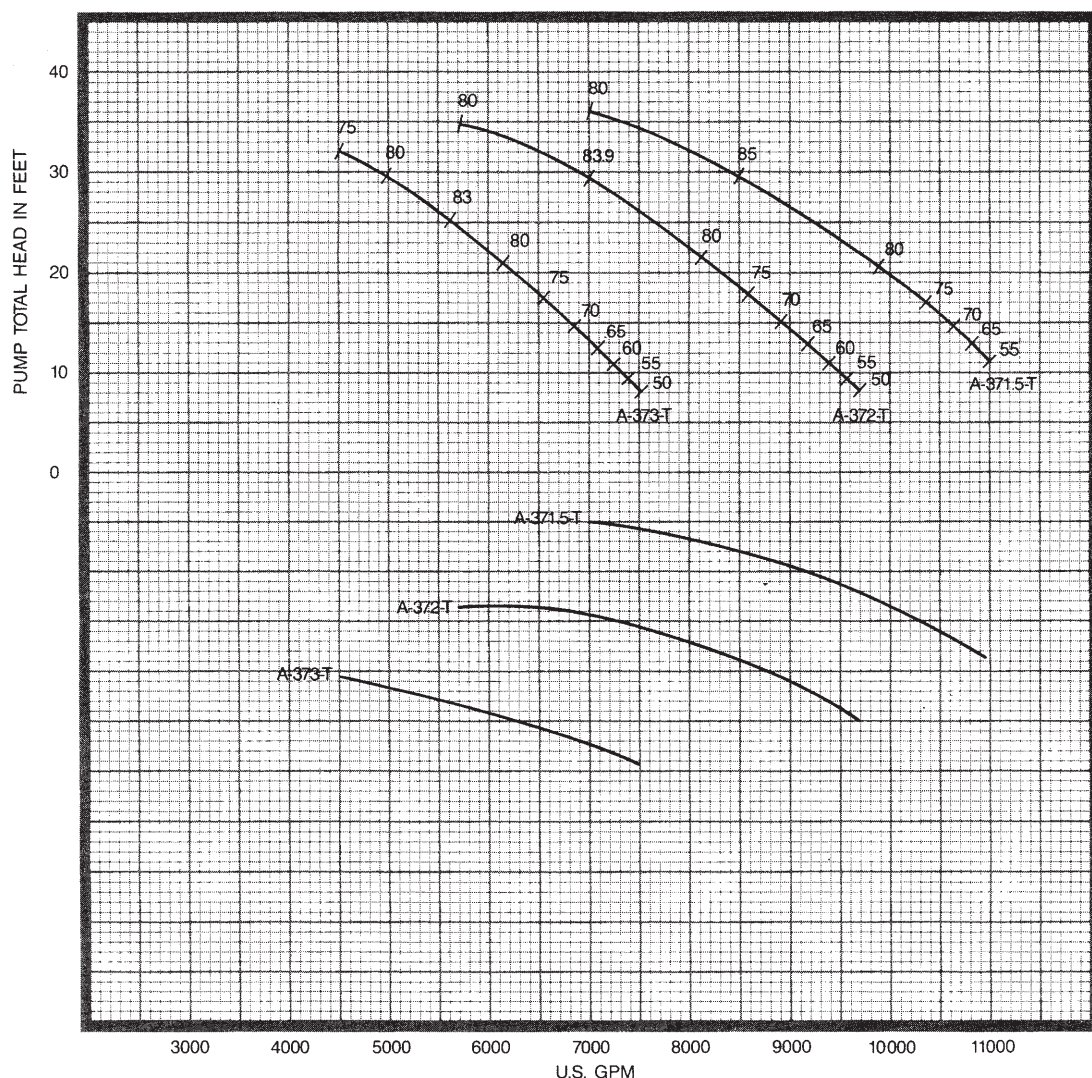


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.6875 IN.
MAXIMUM SPHERE SIZE		2.63 IN.
K _t (THRUST FACTOR)		62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		132 LBS.
K _s (SETTING CONSTANT)		7.6 LBS./FT.
WK ²		28 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		1025 LBS.
EYE AREA: PROPELLER NO. A-371.5-T		124.0 SQ. IN. 3 VANE
PROPELLER NO. A-372-T		124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T		124.0 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.



16"
8312
1170
RPM
1
STAGE

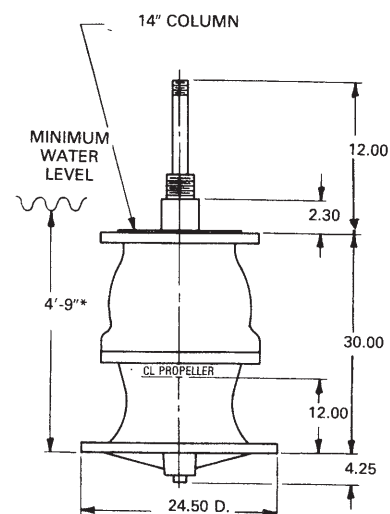
20"
COLUMN
20"
FABRICATED
STEEL ELBOW
1-1/2"
LINESHAFT
2-1/2"
ENCLOSING
TUBE

80
70
60
50
40
30
BHP

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.63 IN.
K _t (THRUST FACTOR)	62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	66 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	14 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	625 LBS.
EYE AREA: PROPELLER NO. A-371.5-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-372-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T	124.0 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.

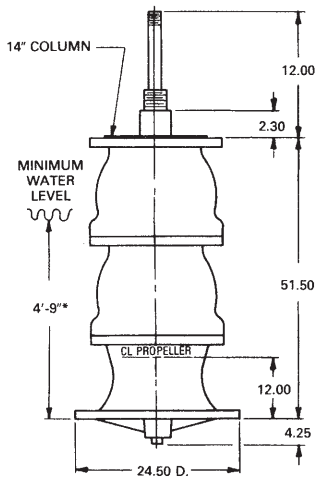
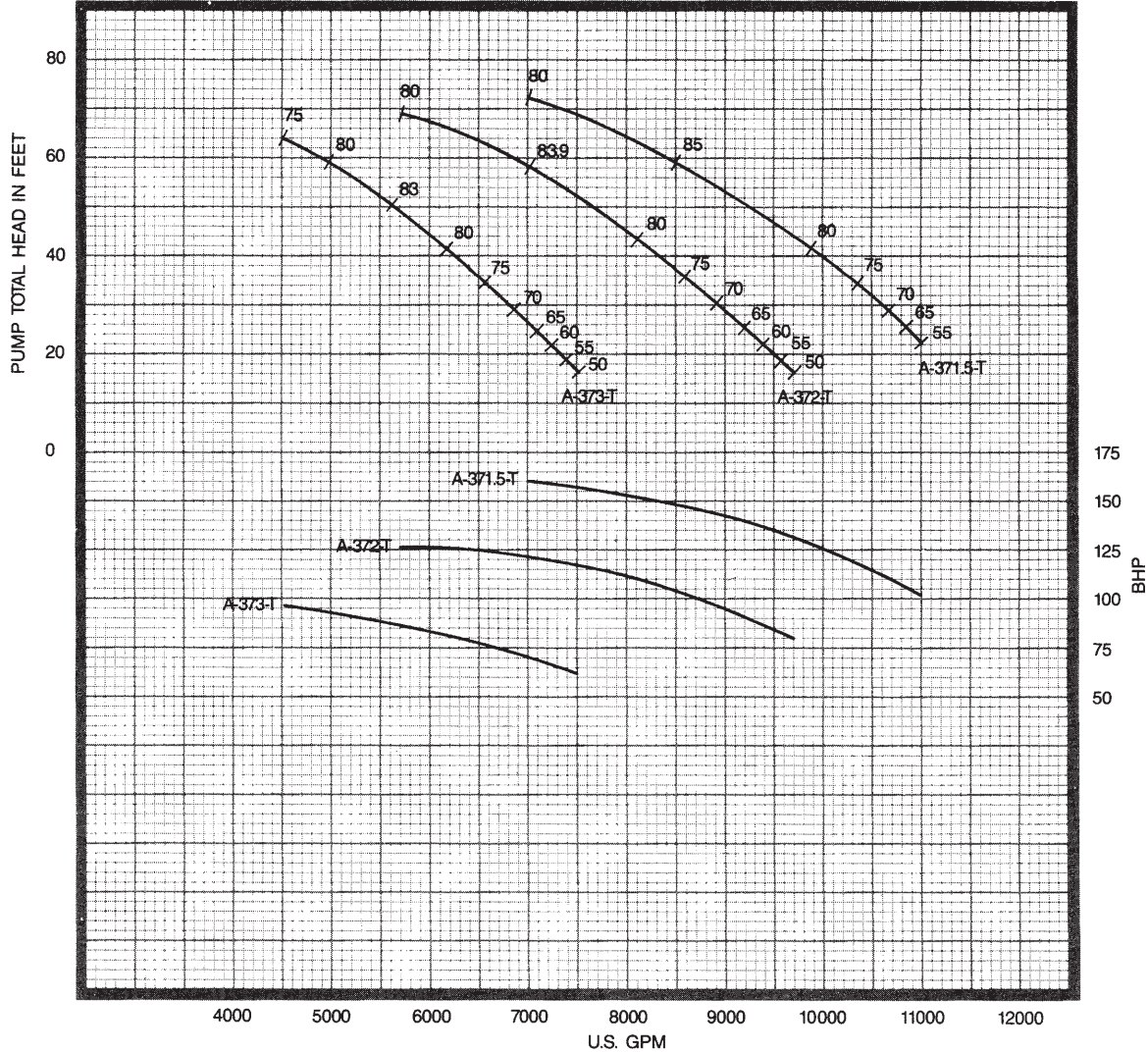
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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

16"
8312
1170
RPM
2
STAGE

20"
COLUMN
20"
FABRICATED
STEEL ELBOW
1-11/16"
LINESHAFT
2-1/2"
ENCLOSING
TUBE

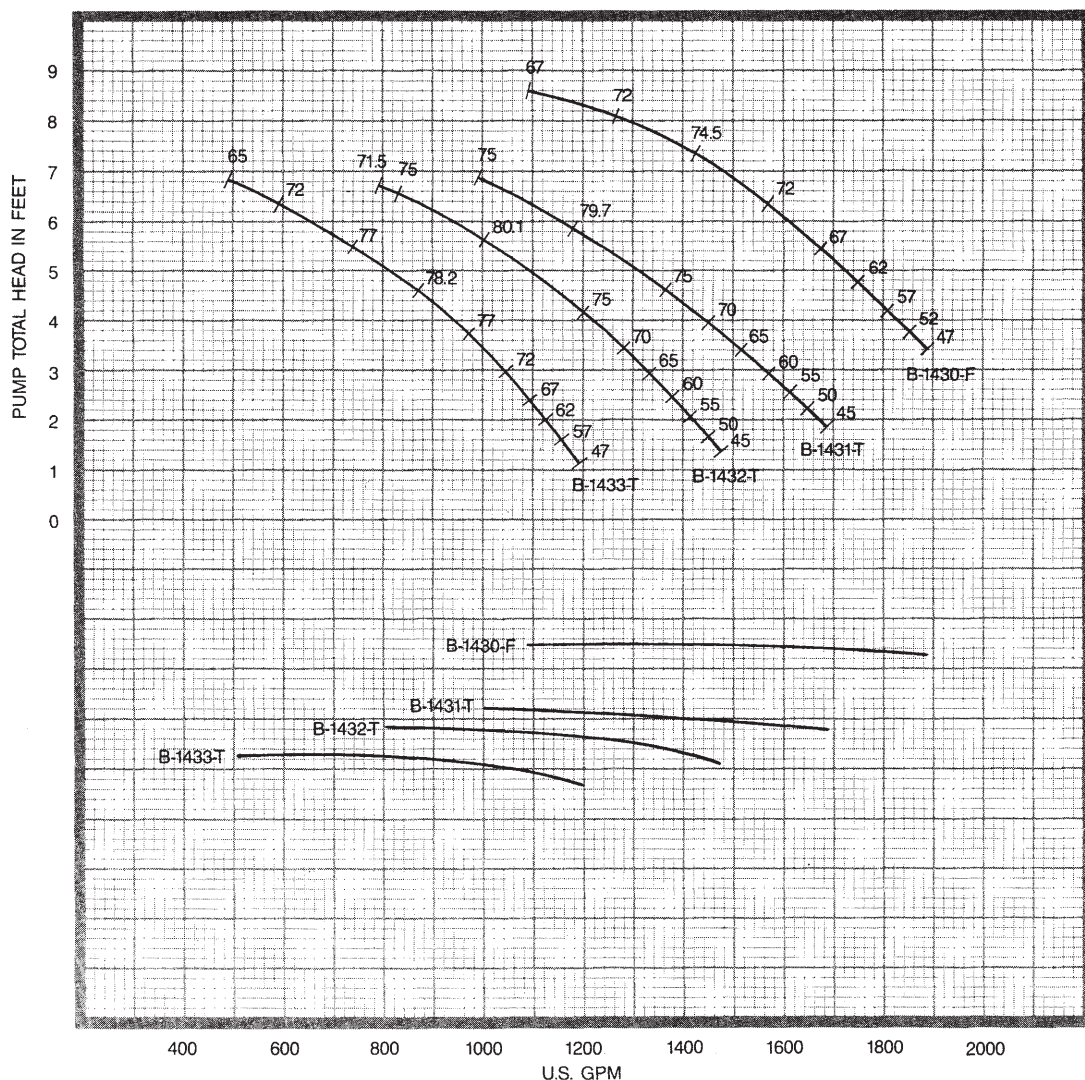


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.6875 IN.
MAXIMUM SPHERE SIZE		2.63 IN.
K _t (THRUST FACTOR)		62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		132 LBS.
K _s (SETTING CONSTANT)		7.6 LBS./FT.
WK ²		28 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		1025 LBS.
EYE AREA: PROPELLER NO. A-371.5-T		124.0 SQ. IN. 3 VANE
PROPELLER NO. A-372-T		124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T		124.0 SQ. IN. 3 VANE
PROPELLER NO.		
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.



10"
8312

880
RPM

1
STAGE

10"
COLUMN

10"
CAST IRON
ELBOW

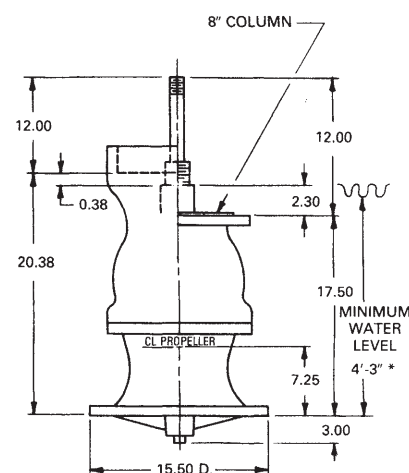
1"
LINESHAFT

1-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	17 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	1.1 LBS.-FT. ²
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.



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10"
8312

880
RPM

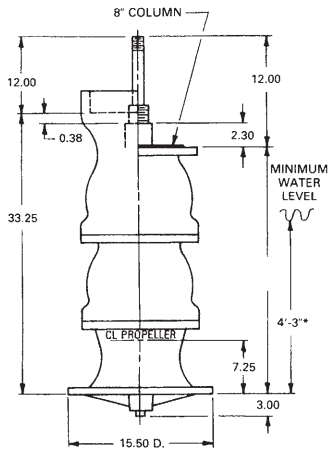
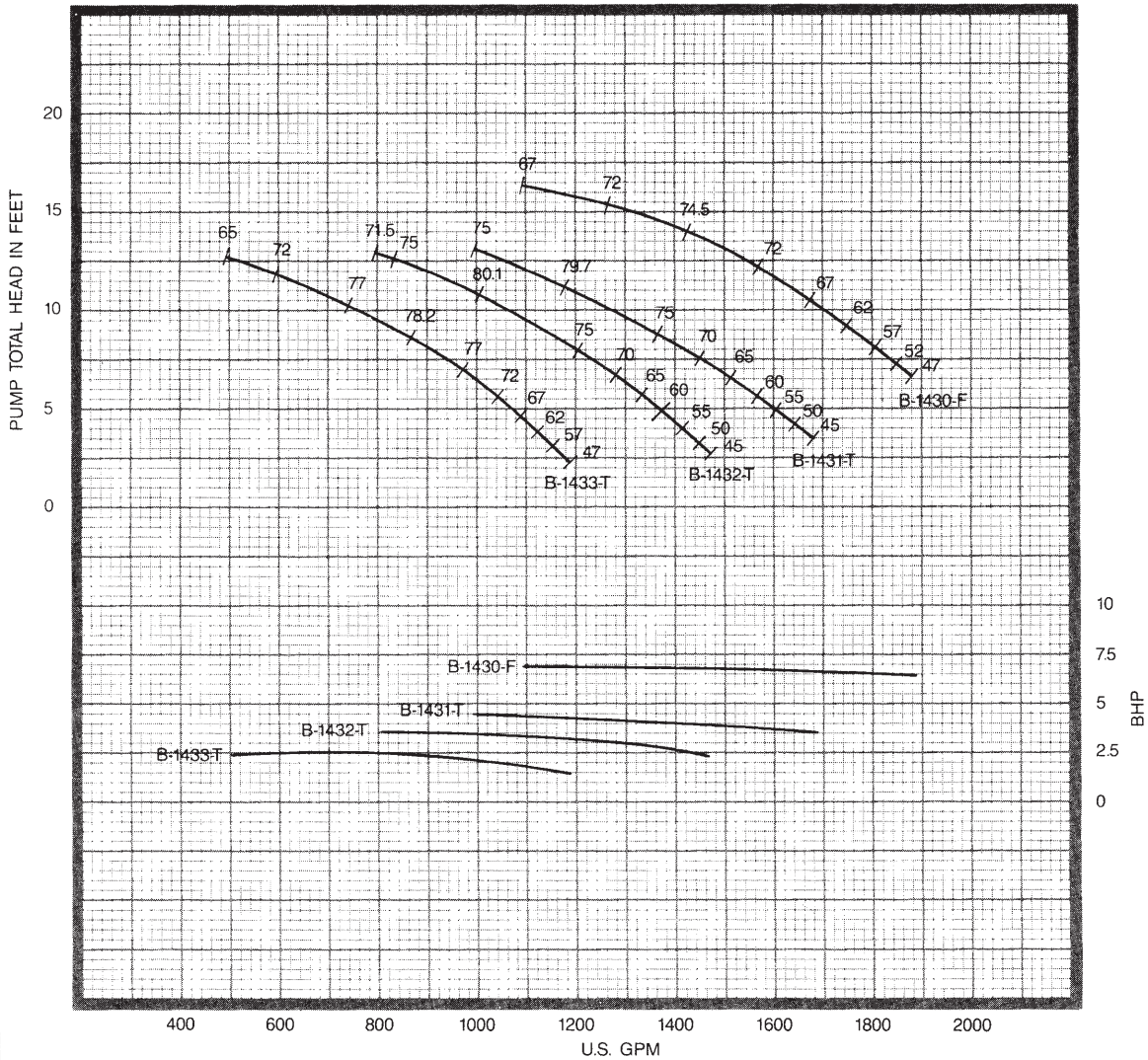
2
STAGE

10"
COLUMN

10"
CAST IRON
ELBOW

1-1/4"
LINESHAFT

2"
ENCLOSING
TUBE

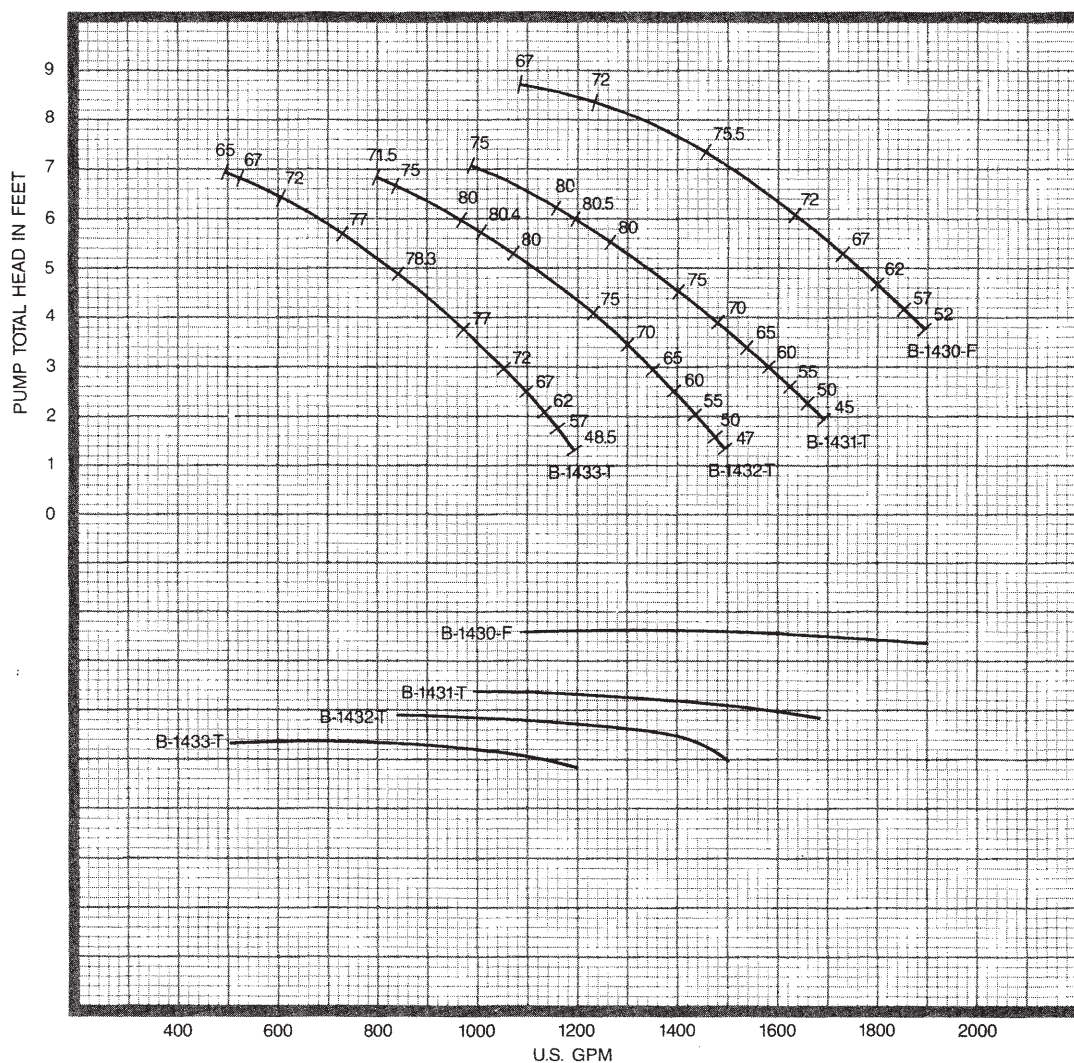


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.1875 IN.
MAXIMUM SPHERE SIZE		1.5 IN.
K _t (THRUST FACTOR)		20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		34 LBS.
K _s (SETTING CONSTANT)		3.8 LBS./FT.
WK ²		2.2 LBS.-FT. ²
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.



10"
8312
880
RPM
1
STAGE

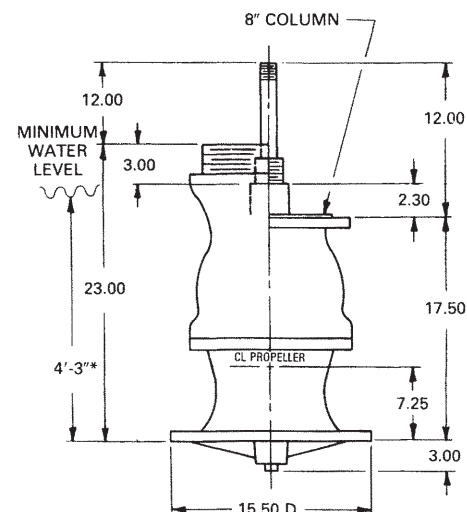
12"
COLUMN
12"
CAST IRON
ELBOW
1"
LINESHAFT
1-1/2"
ENCLOSING
TUBE

4
3
2
1
0
BHP

DATA	VALUE
PUMP SHAFT DIAMETER	1.1875 IN.
MAXIMUM SPHERE SIZE	1.5 IN.
K _t (THRUST FACTOR)	20 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	17 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	1.1 LBS.-FT. ²
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.



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10"
8312

880
RPM

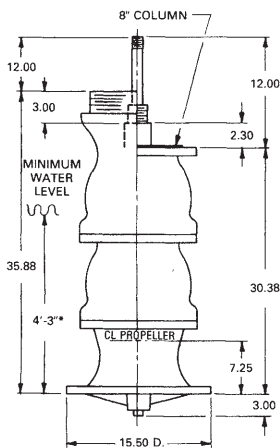
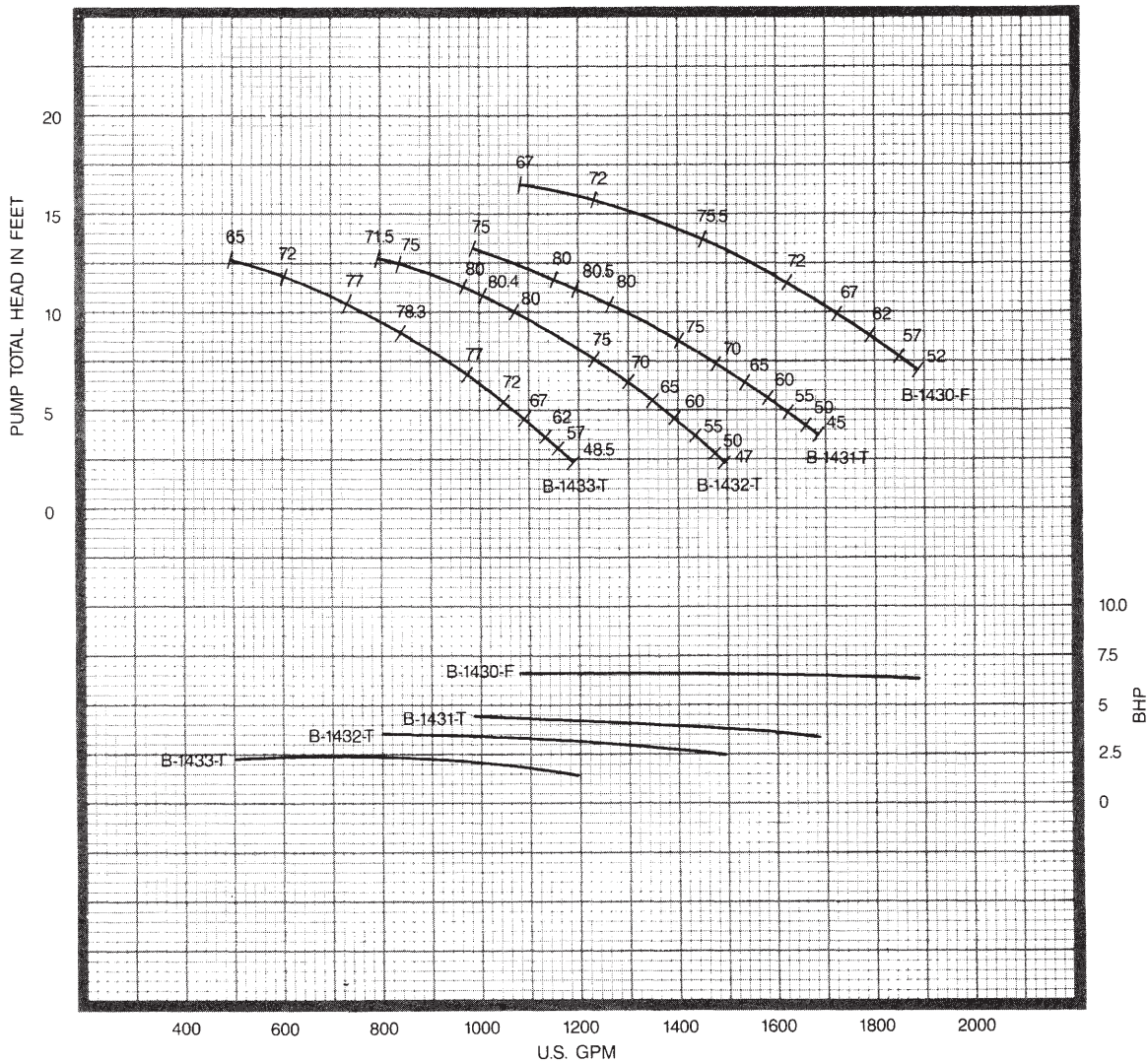
2
STAGE

12"
COLUMN

12"
CAST IRON
ELBOW

1-1/4"
LINESHAFT

2"
ENCLOSING
TUBE

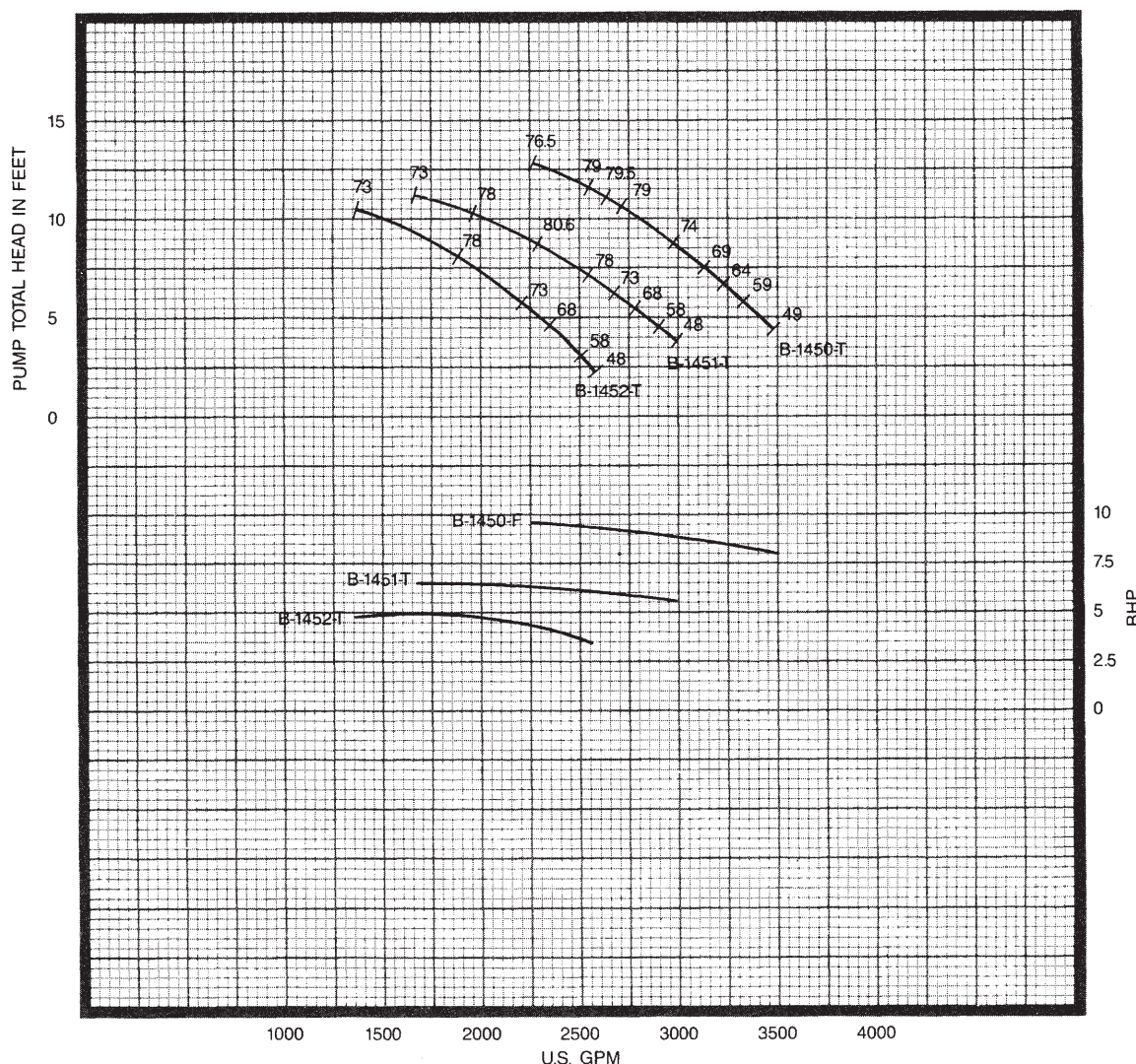


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DATA		VALUE
PUMP SHAFT DIAMETER		1.1875 IN.
MAXIMUM SPHERE SIZE		1.5 IN.
Kt (THRUST FACTOR)		20 LBS./FT.
Ka (TOTAL ROTOR WEIGHT)		34 LBS.
Ks (SETTING CONSTANT)		3.8 LBS./FT.
WK ²		2.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		445 LBS.
EYE AREA: PROPELLER NO. 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 ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



12"
8312

880
RPM

1
STAGE

12"
COLUMN

12"
CAST IRON
ELBOW

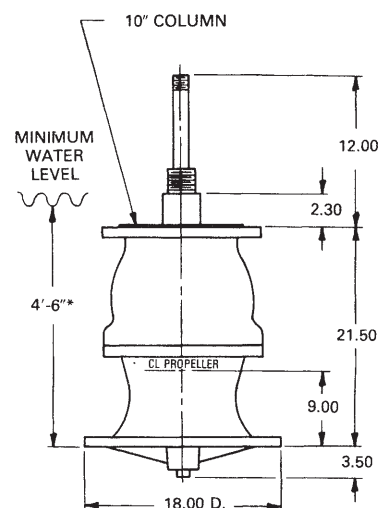
1"
LINESHAFT

1-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.4375 IN.
MAXIMUM SPHERE SIZE	1.88 IN.
K _t (THRUST FACTOR)	31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	28 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	3.1 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	430 LBS.
EYE AREA: PROPELLER NO. B-1450-F	63.0 SQ. IN. 4 VANE
PROPELLER NO. B-1451-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.



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12"
8312

880
RPM

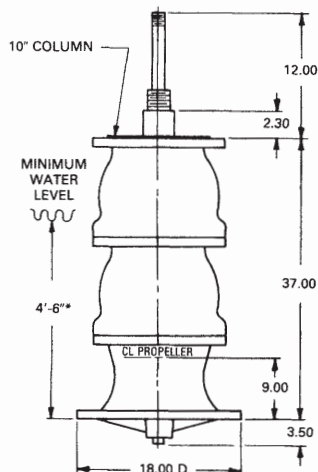
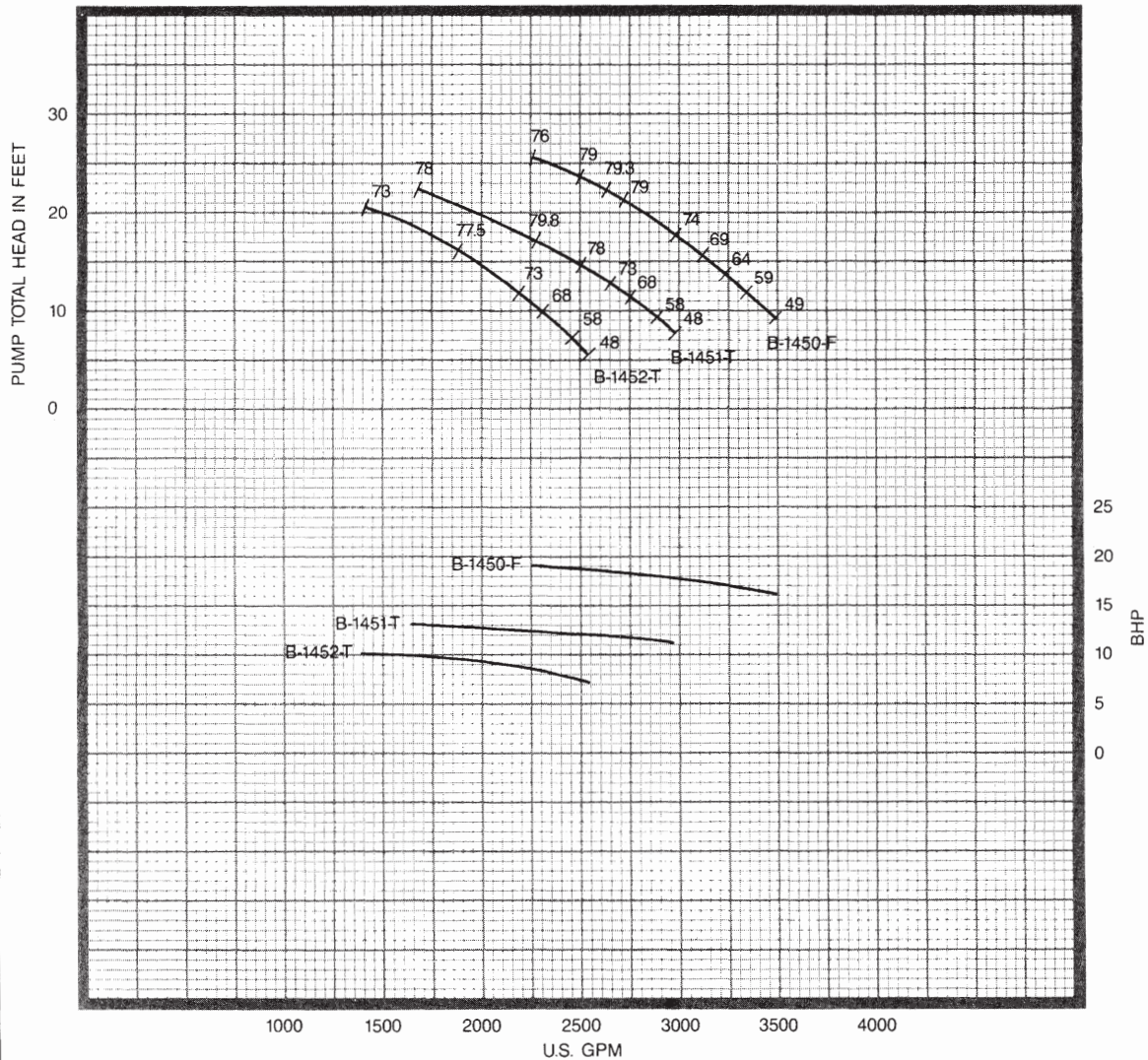
2
STAGE

12"
COLUMN

12"
CAST IRON
ELBOW

1-1/4"
LINESHAFT

2"
ENCLOSING
TUBE

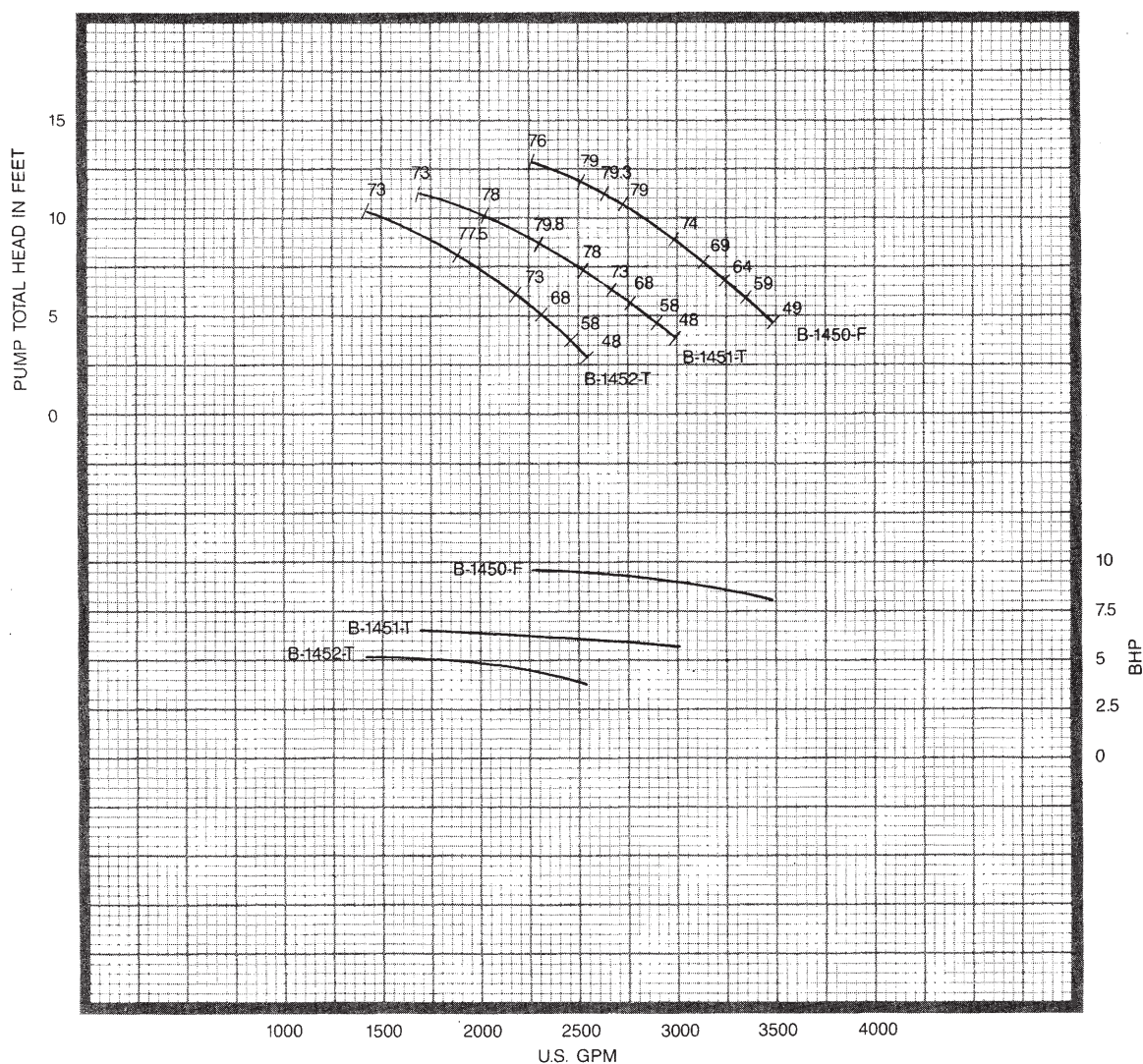


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE	
PUMP SHAFT DIAMETER		1.4375 IN.	
MAXIMUM SPHERE SIZE		1.88 IN.	
K _t (THRUST FACTOR)		31 LBS./FT.	
K _a (TOTAL ROTOR WEIGHT)		56 LBS.	
K _s (SETTING CONSTANT)		3.8 LBS./FT.	
WK ²		6.2 LBS.-FT. ²	
BOWL ASSEMBLY WEIGHT		650 LBS.	
EYE AREA: PROPELLER NO. B-1450-F		63.0 SQ. IN.	4 VANE
PROPELLER NO. B-1451-T		63.0 SQ. IN.	3 VANE
PROPELLER NO. B-1452-T		63.0 SQ. IN.	3 VANE
PROPELLER NO.			
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.

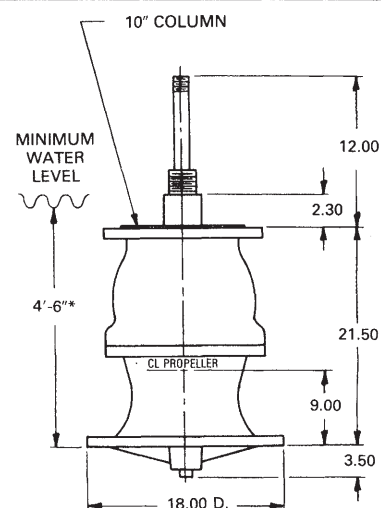
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



DATA	VALUE
PUMP SHAFT DIAMETER	1.4375 IN.
MAXIMUM SPHERE SIZE	1.88 IN.
K _t (THRUST FACTOR)	31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	28 LBS.
K _s (SETTING CONSTANT)	2.8 LBS./FT.
WK ²	3.1 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	430 LBS.
EYE AREA: PROPELLER NO. B-1450-F	63.0 SQ. IN. 4 VANE
PROPELLER NO. B-1451-T	63.0 SQ. IN. 3 VANE
PROPELLER NO. B-1452-T	63.0 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.



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12"
8312

880
RPM

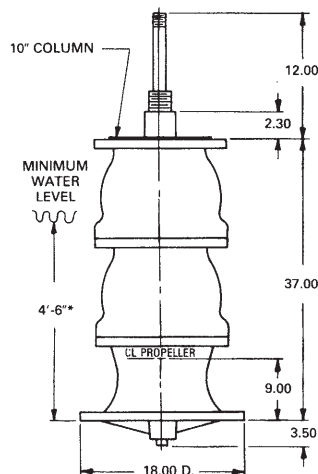
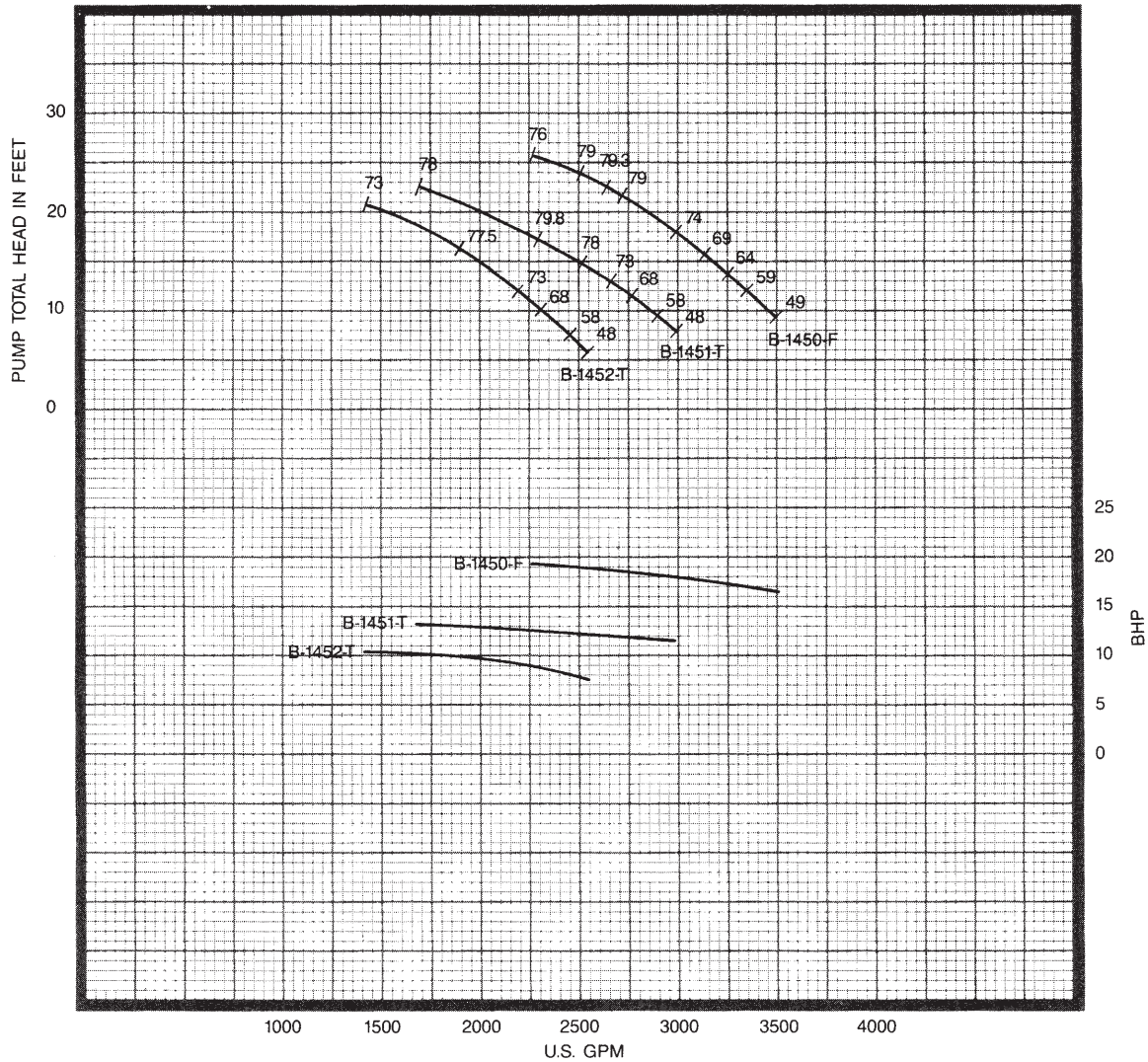
2
STAGE

14"
COLUMN

14"
CAST IRON
ELBOW

1-1/4"
LINESHAFT

2"
ENCLOSING
TUBE

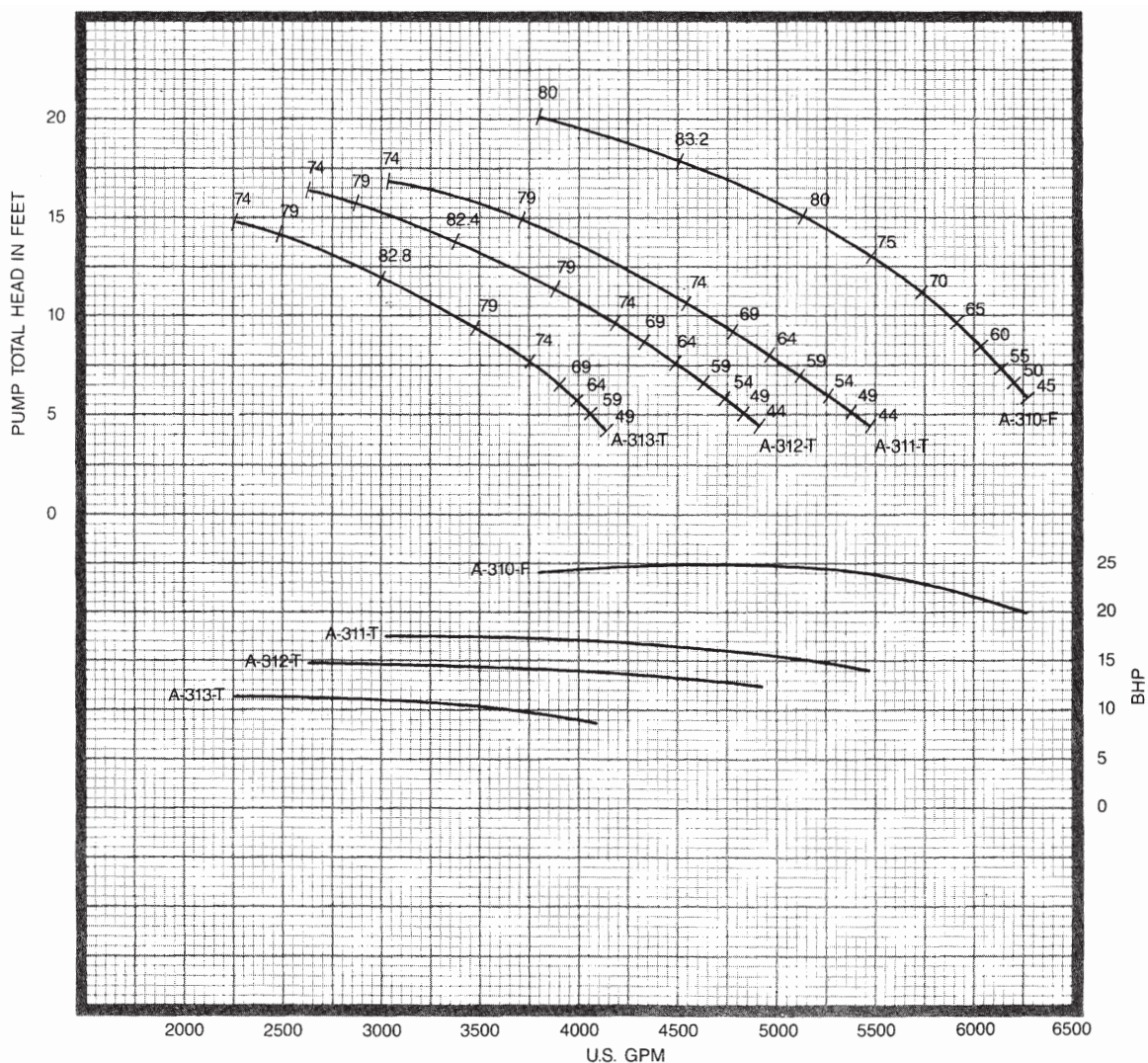


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.4375 IN.
MAXIMUM SPHERE SIZE		1.88 IN.
K _t (THRUST FACTOR)		31 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		56 LBS.
K _s (SETTING CONSTANT)		3.8 LBS./FT.
WK ²		6.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		650 LBS.
EYE AREA:	PROPELLER NO. B-1450-F	63.0 SQ. IN. 4 VANE
	PROPELLER NO. B-1451-T	63.0 SQ. IN. 3 VANE
	PROPELLER NO. B-1452-T	63.0 SQ. IN. 3 VANE
	PROPELLER NO.	
	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.



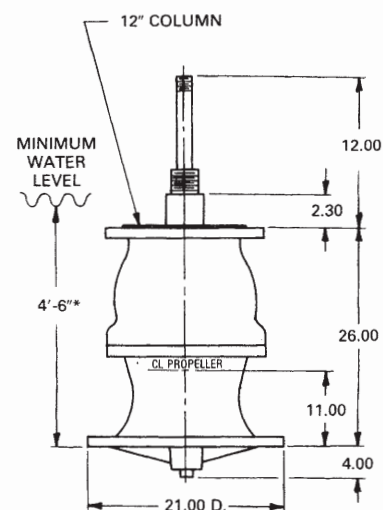
14"
8312
880
RPM
1
STAGE

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 _t (THRUST FACTOR)	46 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	45 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	7.1 LBS.-FT. ²
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.

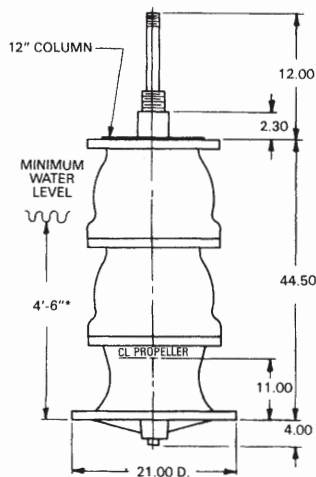
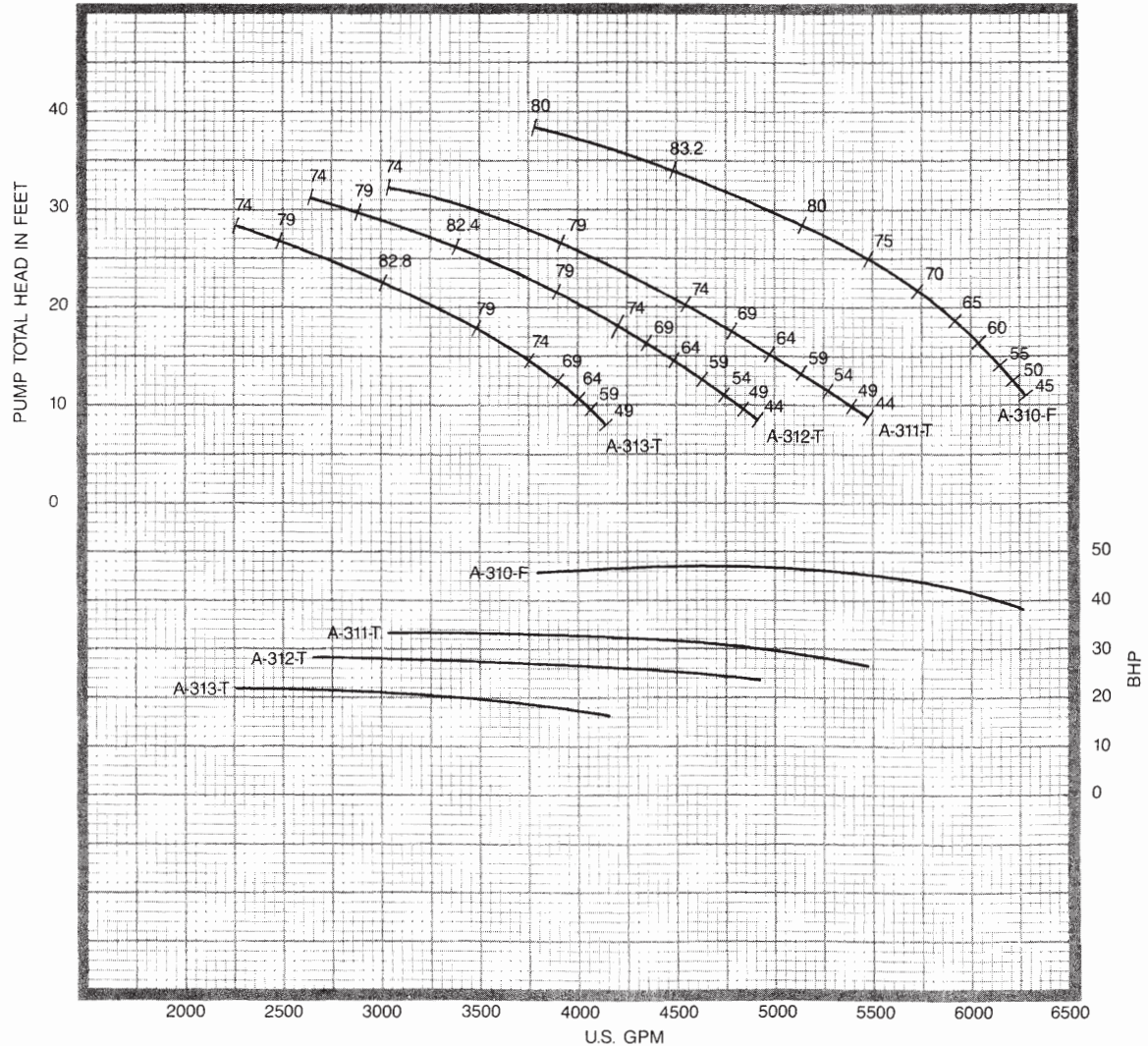
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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14"
8312
880
RPM
2
STAGE

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

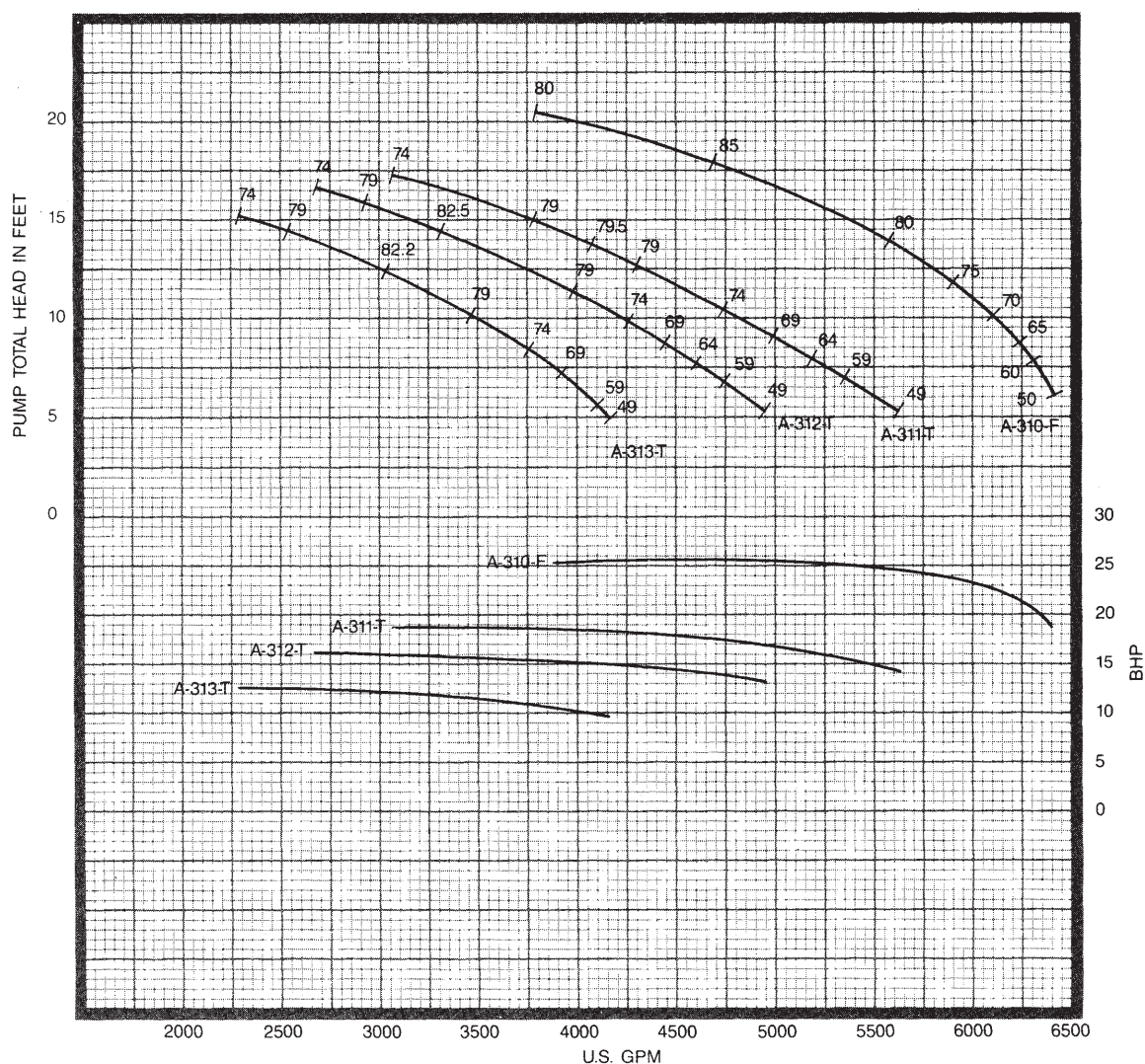


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

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. ²
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.

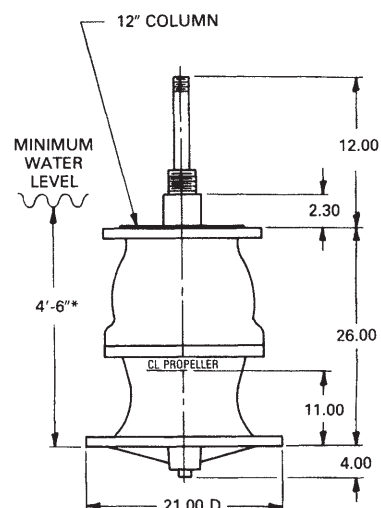
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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)	45 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	7.1 LBS.-FT. ²
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.	

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.

14"
8312

880
RPM

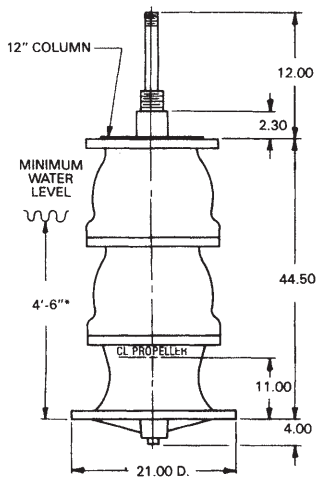
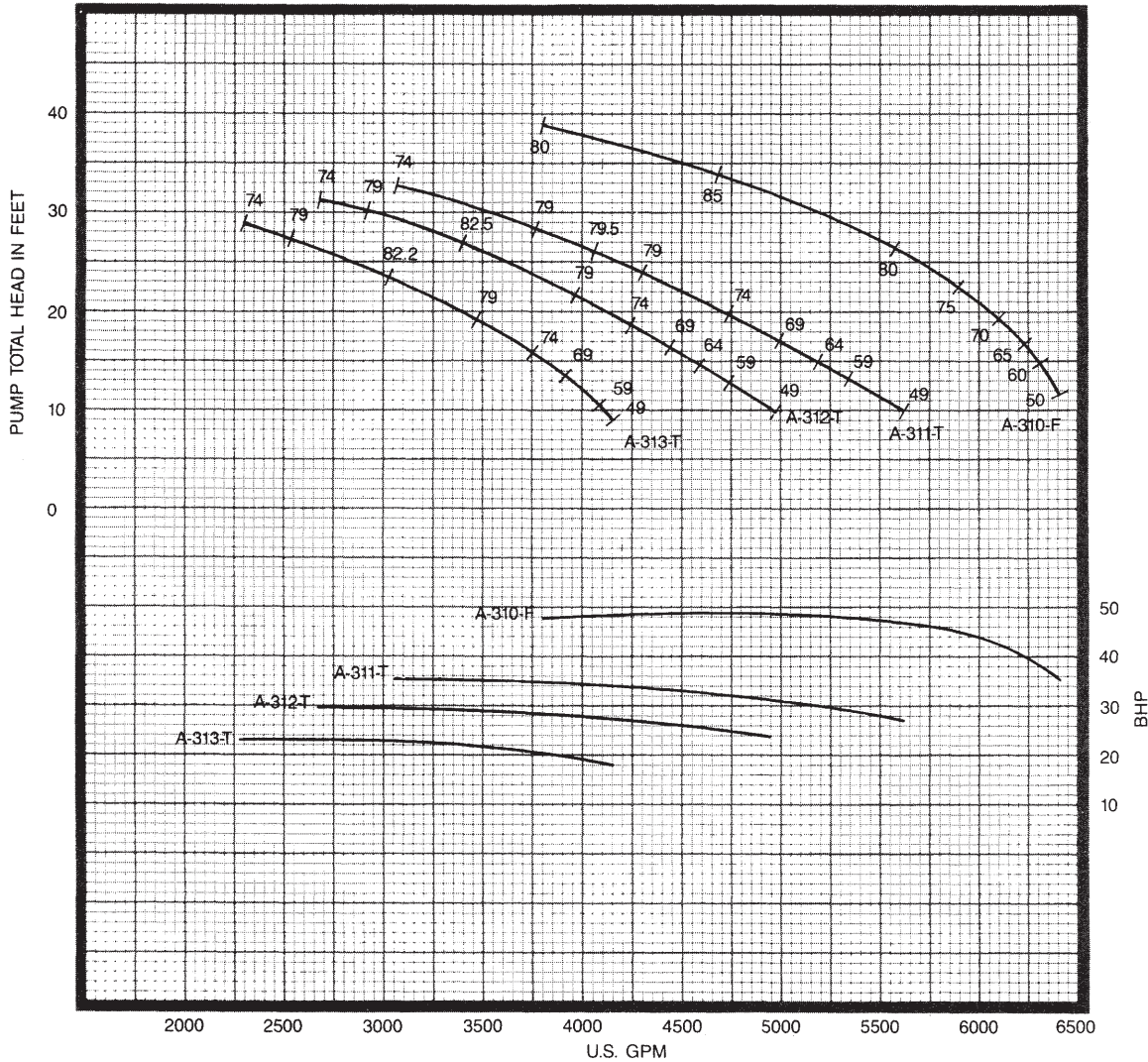
2
STAGE

16"
COLUMN

16"
FABRICATED
STEEL ELBOW

1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

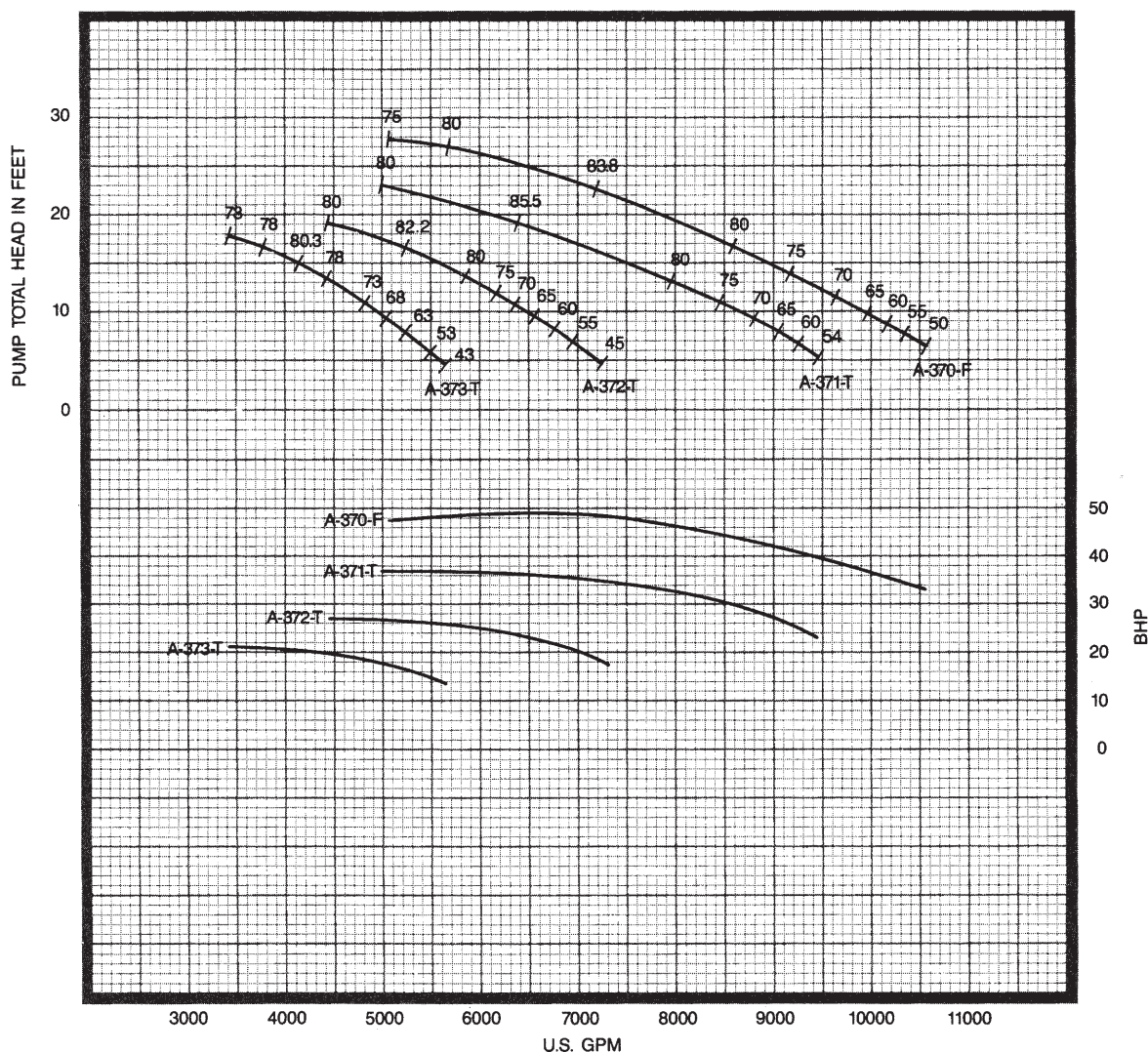


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

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. ²	
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.

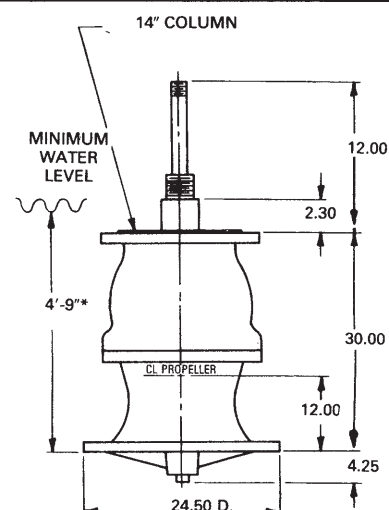
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.

**16"**
8312**880**
RPM**1**
STAGE16"
COLUMN16"
FABRICATED
STEEL ELBOW1-1/2"
LINESHAFT2-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.63 IN.
K _t (THRUST FACTOR)	62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	66 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	14 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	625 LBS.
EYE AREA: PROPELLER NO. A-372-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-370-F	124.0 SQ. IN. 4 VANE
PROPELLER NO. A-371-T	124.0 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.

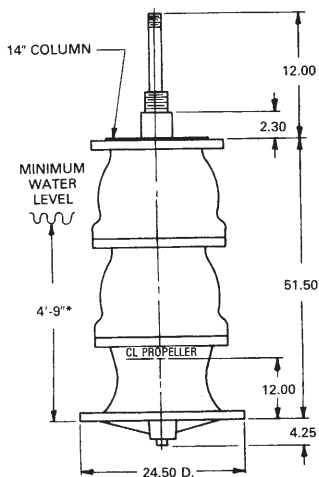
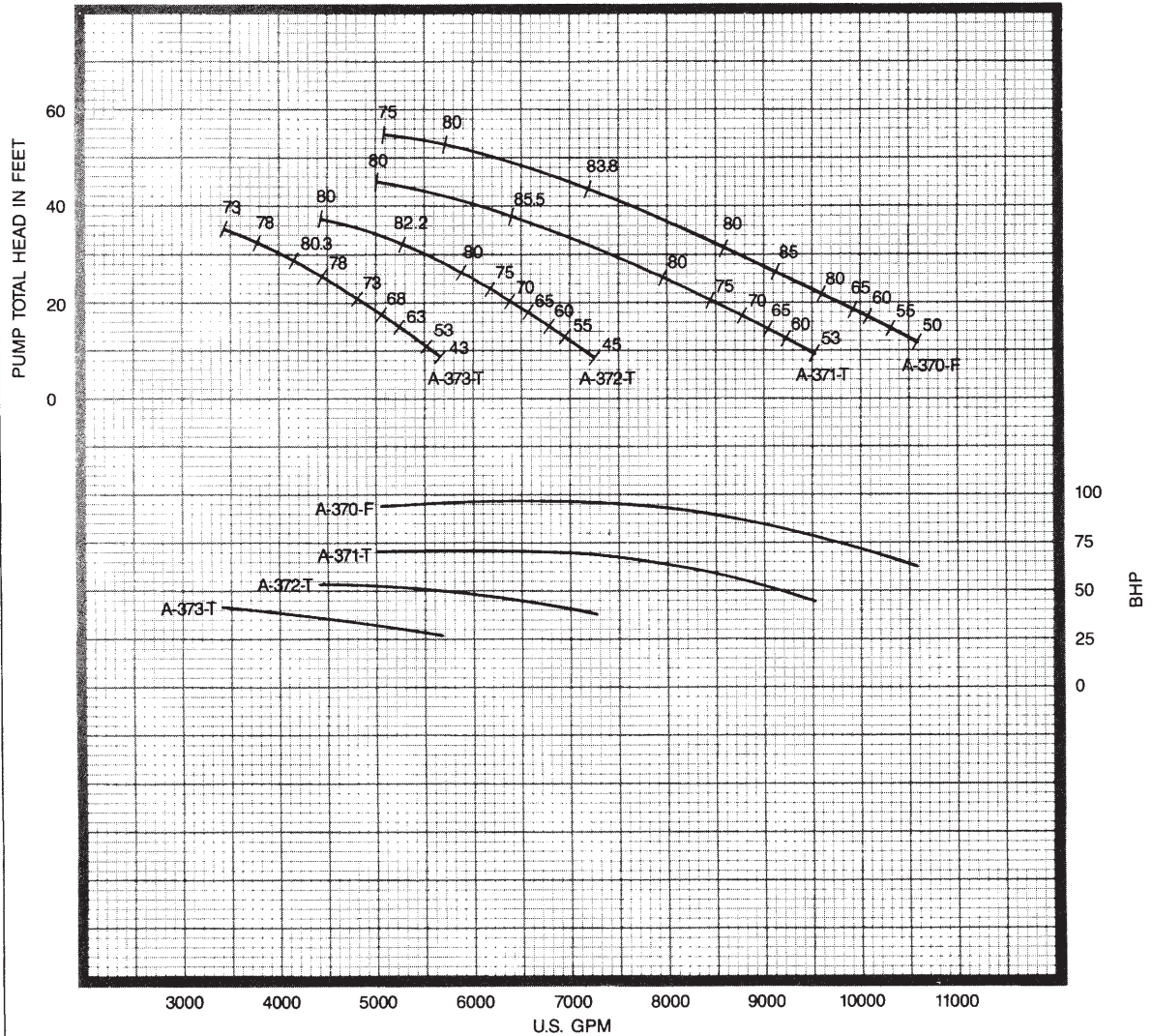
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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16"
8312
880
RPM
2
STAGE

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

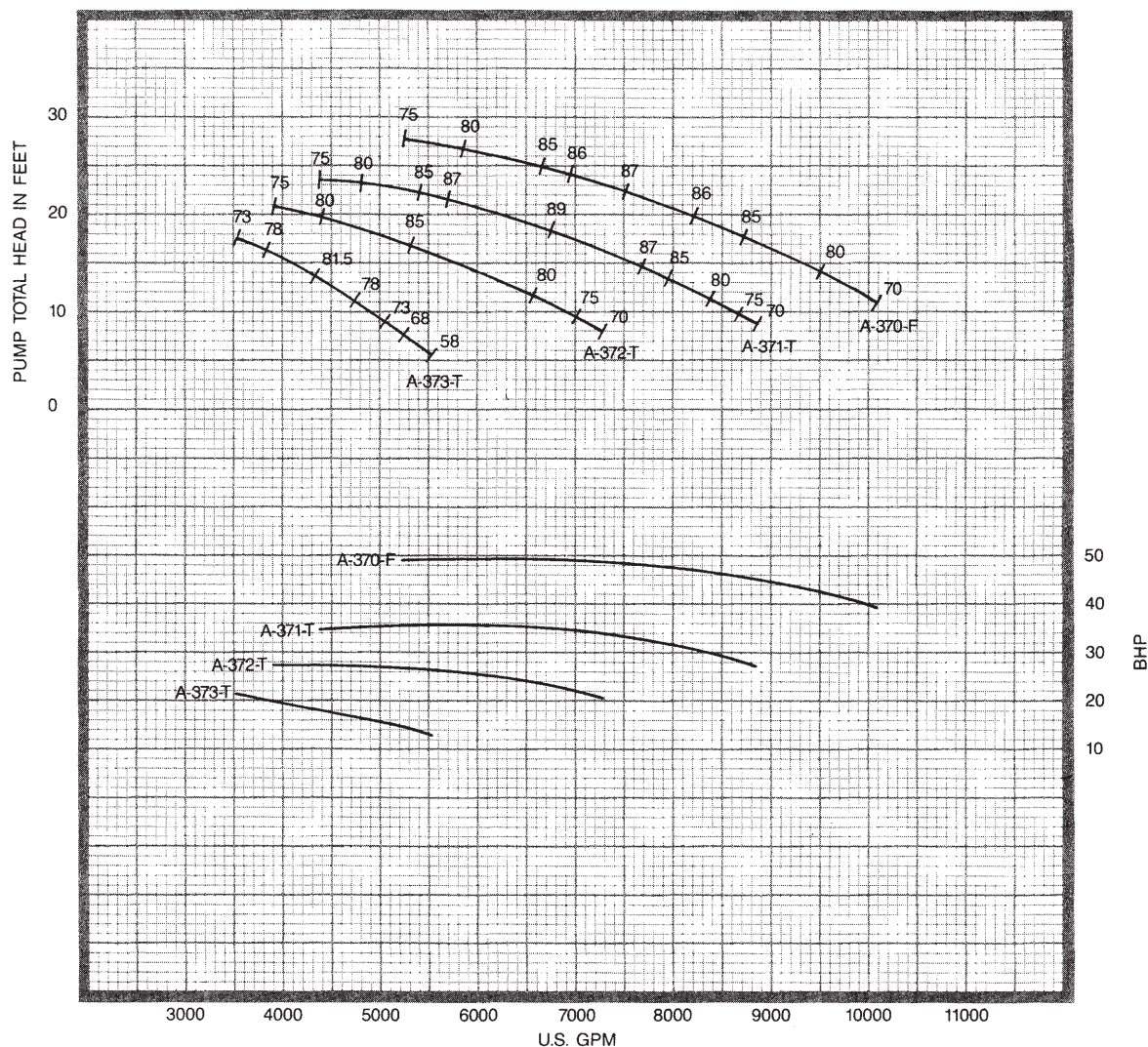


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.6875 IN.
MAXIMUM SPHERE SIZE		2.63 IN.
K _t (THRUST FACTOR)		62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		132 LBS.
K _s (SETTING CONSTANT)		7.6 LBS./FT.
WK ²		28 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		1025 LBS.
EYE AREA: PROPELLER NO. A-372-T		124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T		124.0 SQ. IN. 3 VANE
PROPELLER NO. A-370-F		124.0 SQ. IN. 4 VANE
PROPELLER NO. A-371-T		124.0 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.



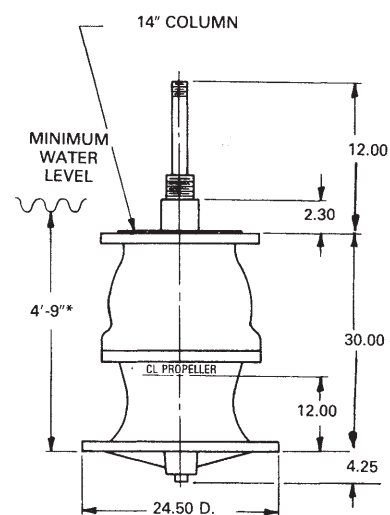
16"
8312
880
RPM
1
STAGE

20"
COLUMN
20"
FABRICATED
STEEL ELBOW
1-1/2"
LINESHAFT
2-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.63 IN.
K _t (THRUST FACTOR)	62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	66 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	14 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	625 LBS.
EYE AREA: PROPELLER NO. A-372-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-370-F	124.0 SQ. IN. 4 VANE
PROPELLER NO. A-371-T	124.0 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.

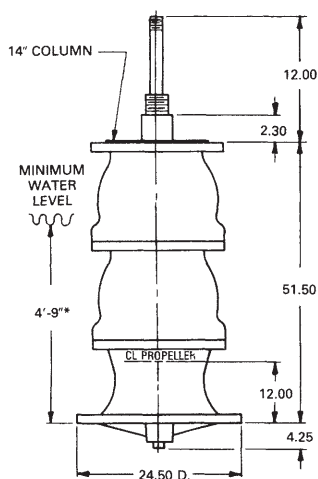
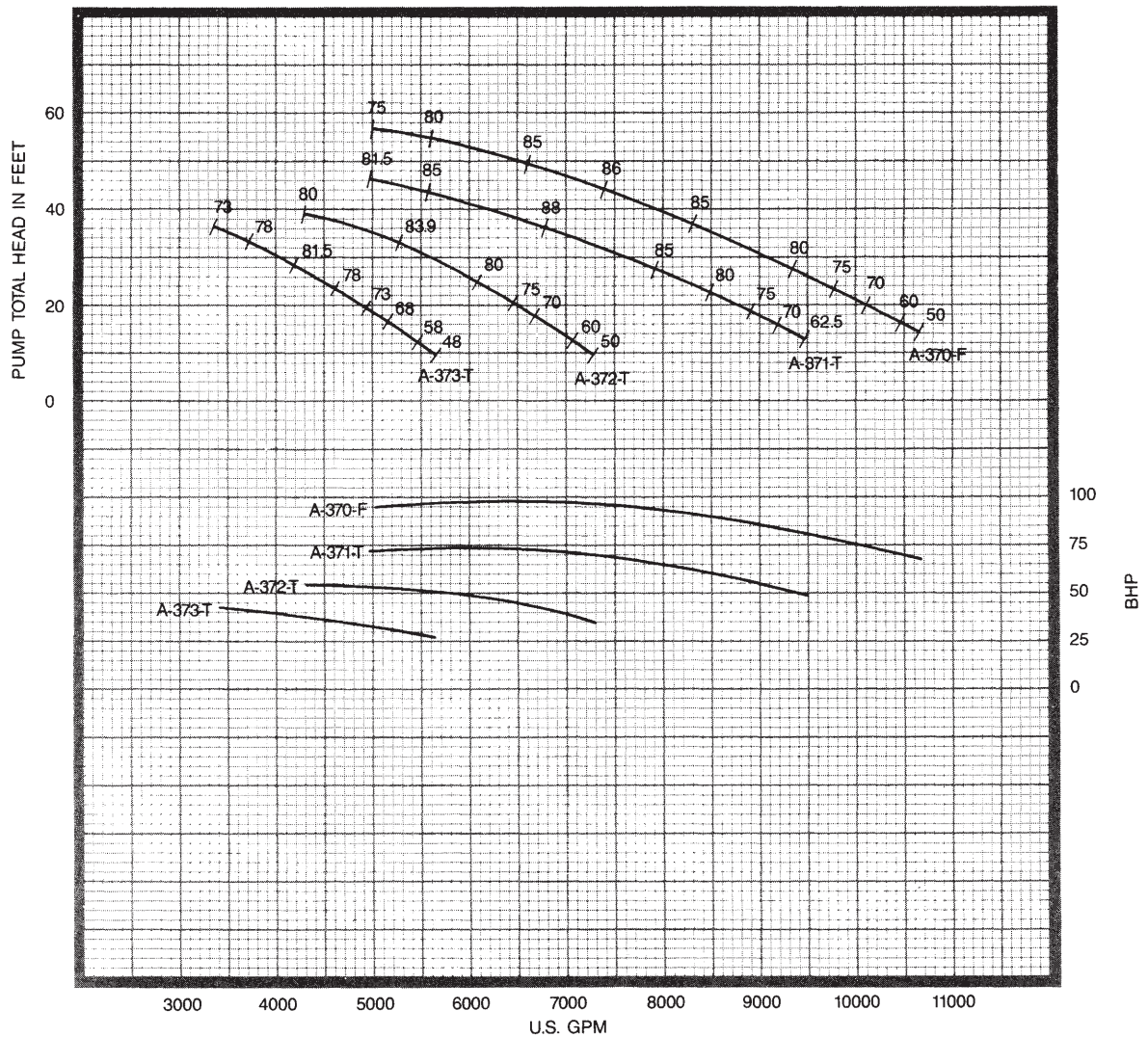
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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16"
8312
880
RPM
2
STAGE

20"
COLUMN
20"
FABRICATED
STEEL ELBOW
1-11/16"
LINESHAFT
2-1/2"
ENCLOSING
TUBE

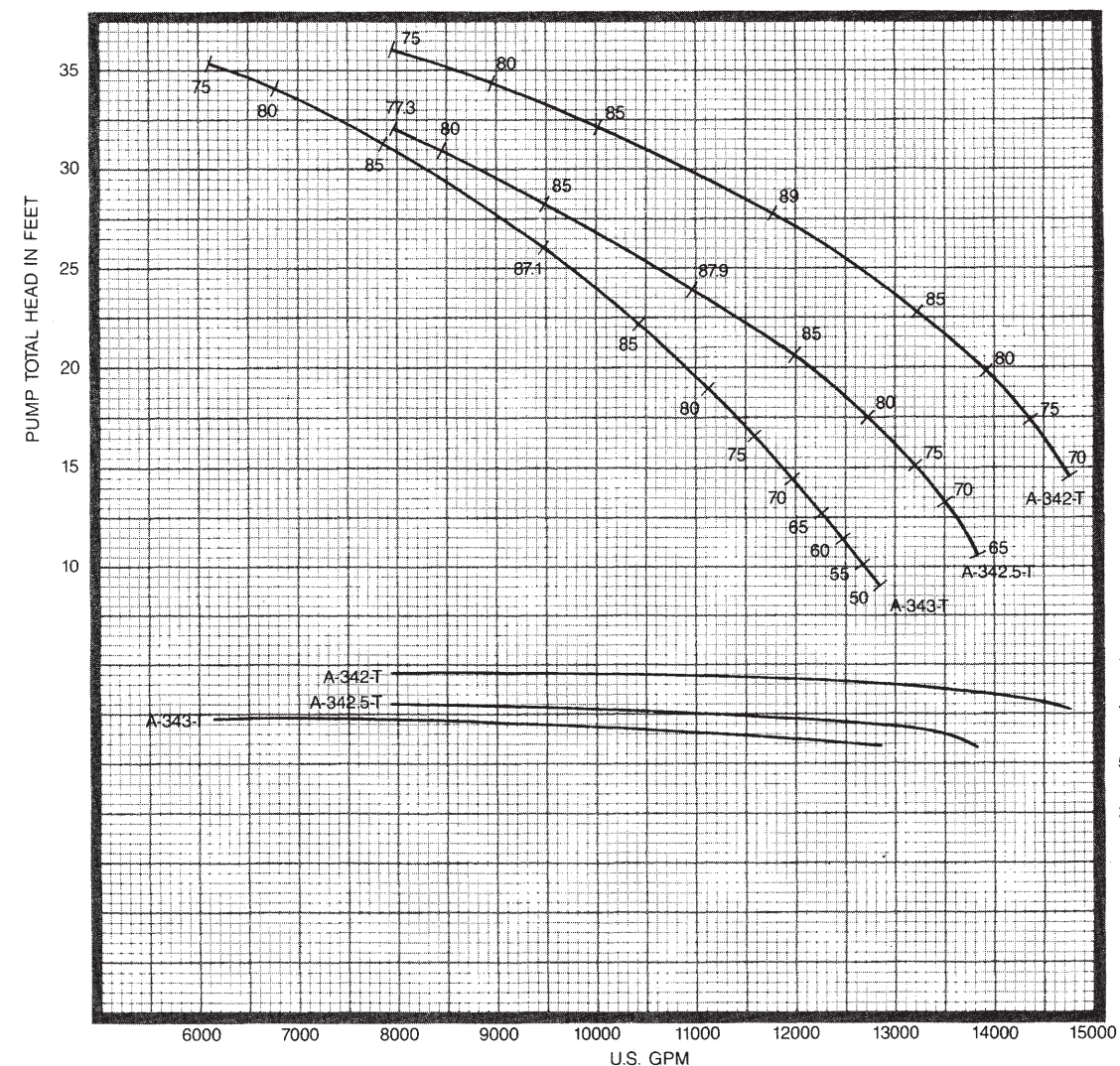


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.63 IN.
K _t (THRUST FACTOR)	62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	132 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	28 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1025 LBS.
EYE AREA: PROPELLER NO. A-372-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-370-F	124.0 SQ. IN. 4 VANE
PROPELLER NO. A-371-T	124.0 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.



20"
8312

880
RPM

1
STAGE

20"
COLUMN

20"
FABRICATED
STEEL ELBOW

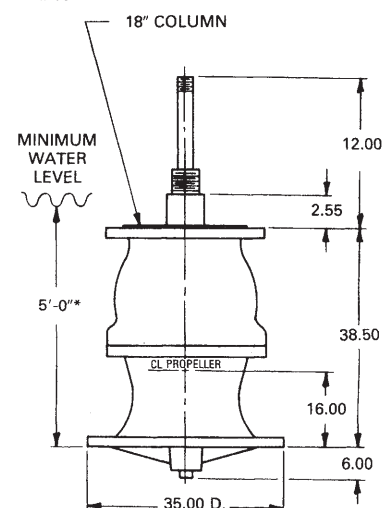
1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.9375 IN.
MAXIMUM SPHERE SIZE	3.38 IN.
K _t (THRUST FACTOR)	101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	125 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	43 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1300 LBS.
EYE AREA: PROPELLER NO. A-342-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T	203.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.



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20"
8312

880
RPM

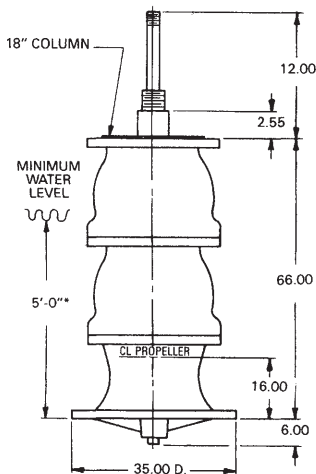
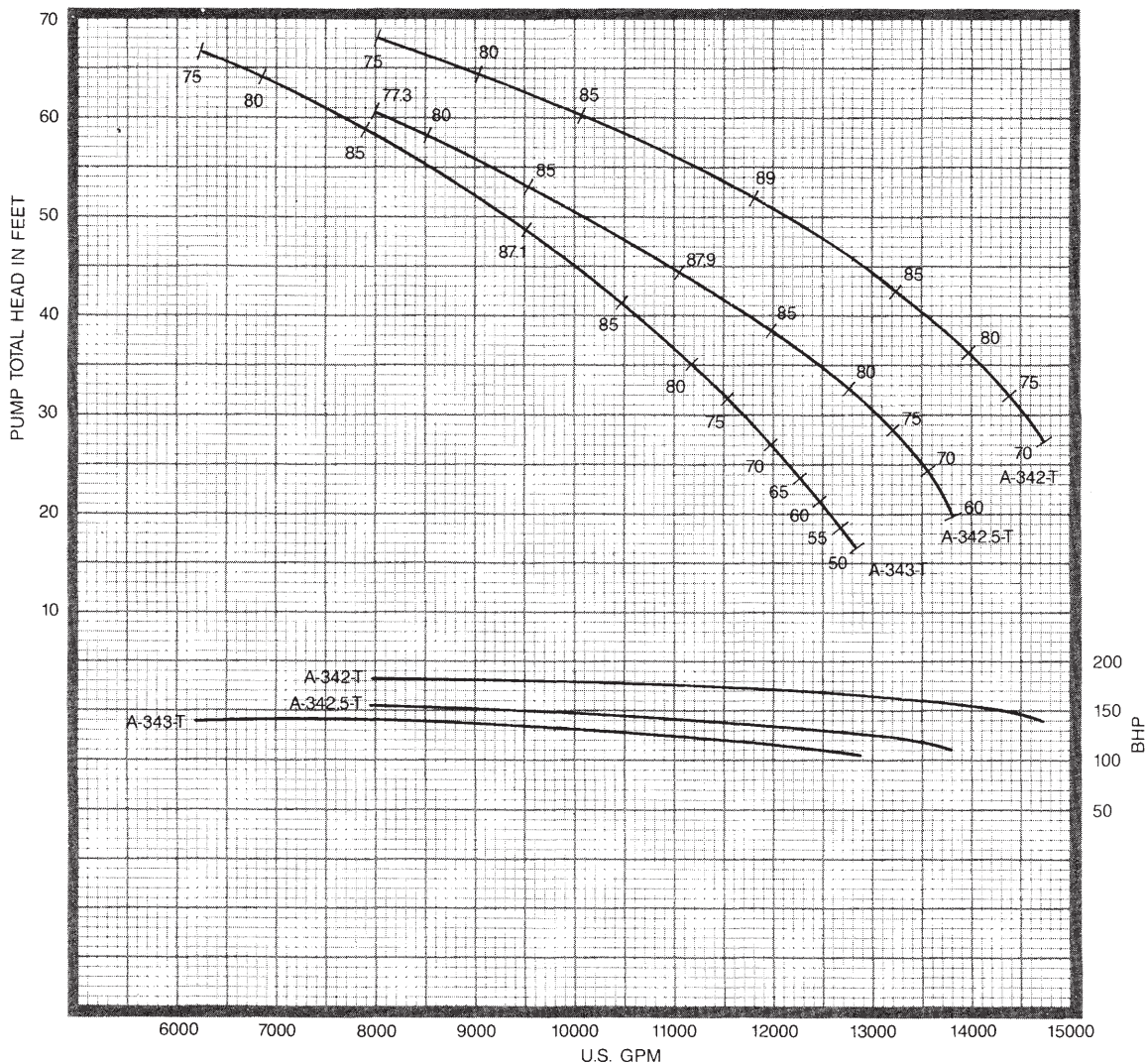
2
STAGE

20"
COLUMN

20"
FABRICATED
STEEL ELBOW

1-15/16"
LINESHAFT

3"
ENCLOSING
TUBE

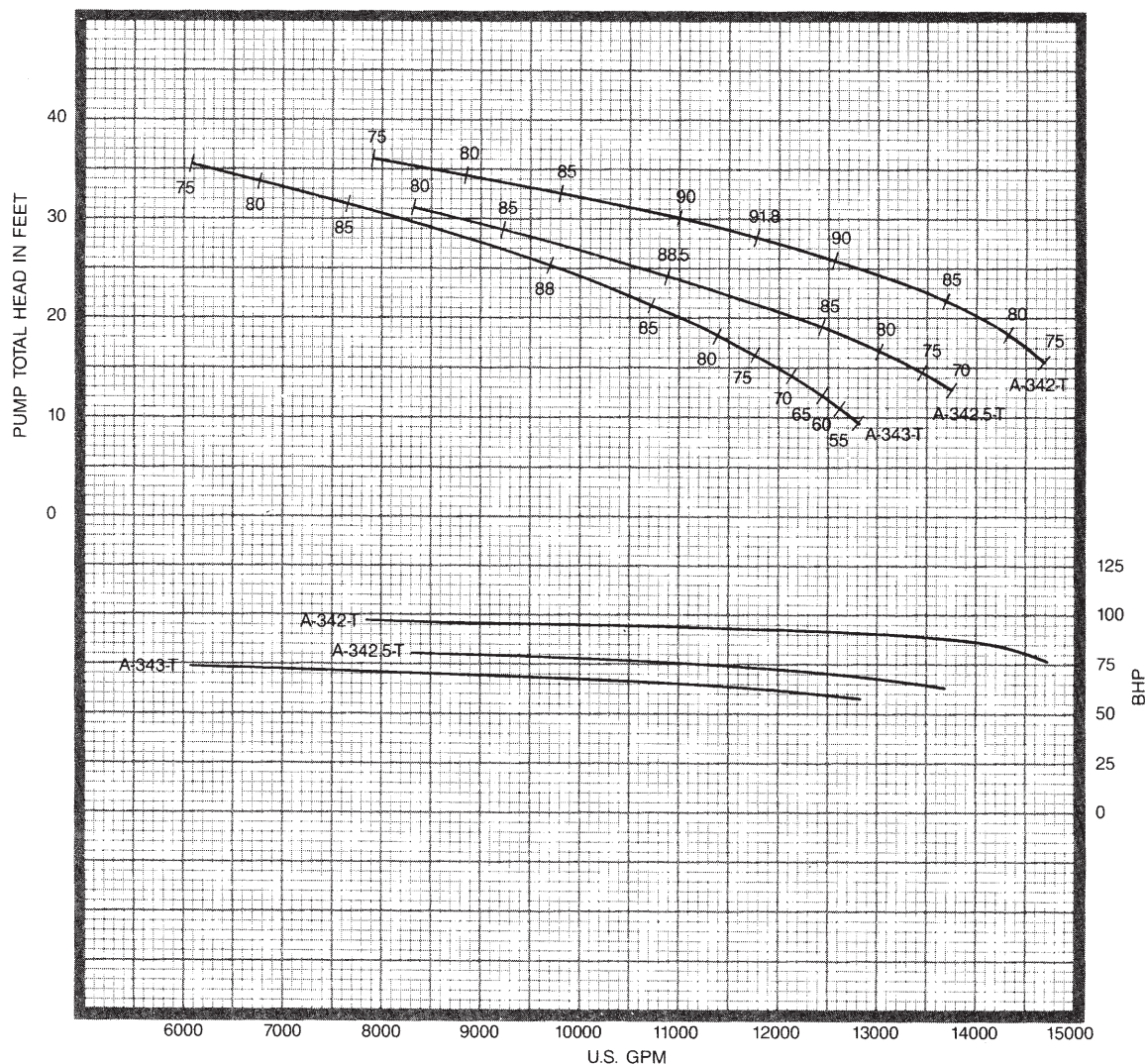


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.9375 IN.
MAXIMUM SPHERE SIZE		3.38 IN.
K _t (THRUST FACTOR)		101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		250 LBS.
K _s (SETTING CONSTANT)		10.0 LBS./FT.
WK ²		86 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		2150 LBS.
EYE AREA: PROPELLER NO. A-342-T	203.0 SQ. IN.	3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN.	3 VANE
PROPELLER NO. A-343-T	203.0 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.

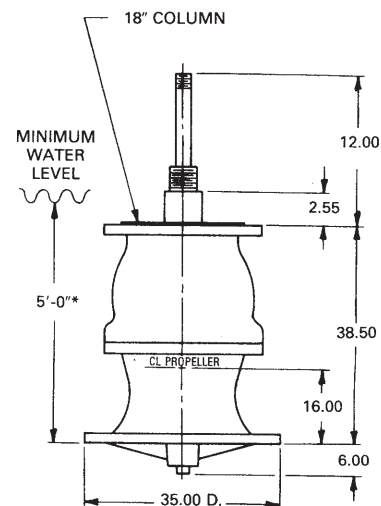
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.

20"
8312**880**
RPM**1**
STAGE**24"**
COLUMN**24"**
FABRICATED
STEEL ELBOW**1-11/16"**
LINESHAFT**2-1/2"**
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.9375 IN.
MAXIMUM SPHERE SIZE	3.38 IN.
K _t (THRUST FACTOR)	101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	125 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	43 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1300 LBS.
EYE AREA: PROPELLER NO. A-342-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T	203.0 SQ. IN. 3 VANE
PROPELLER NO.	
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.



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20"
8312

880
RPM

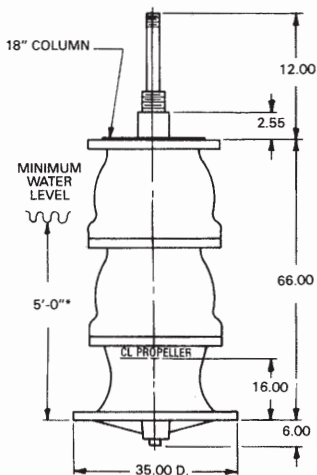
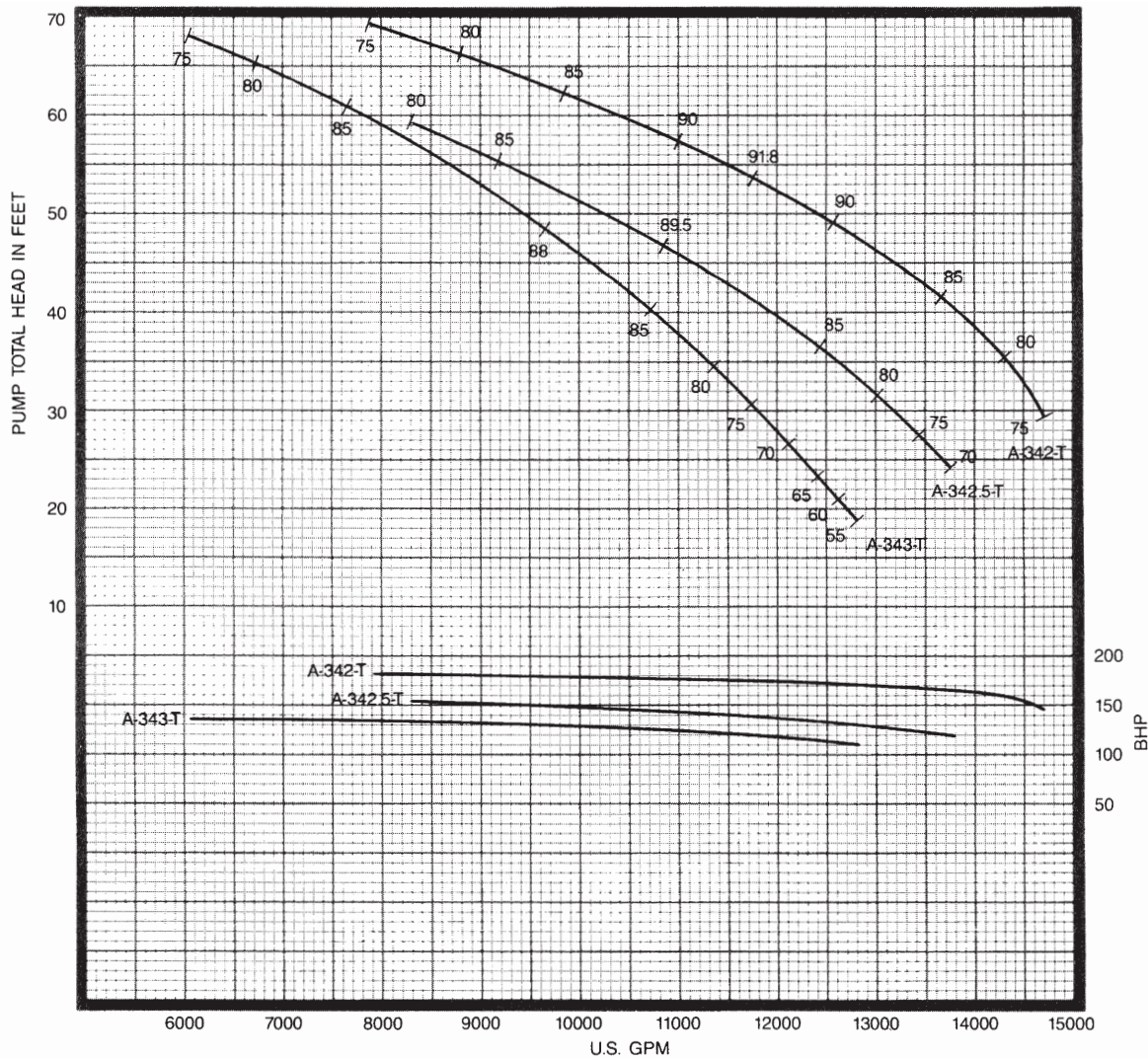
2
STAGE

24"
COLUMN

24"
FABRICATED
STEEL ELBOW

1-15/16"
LINESHAFT

3"
ENCLOSING
TUBE

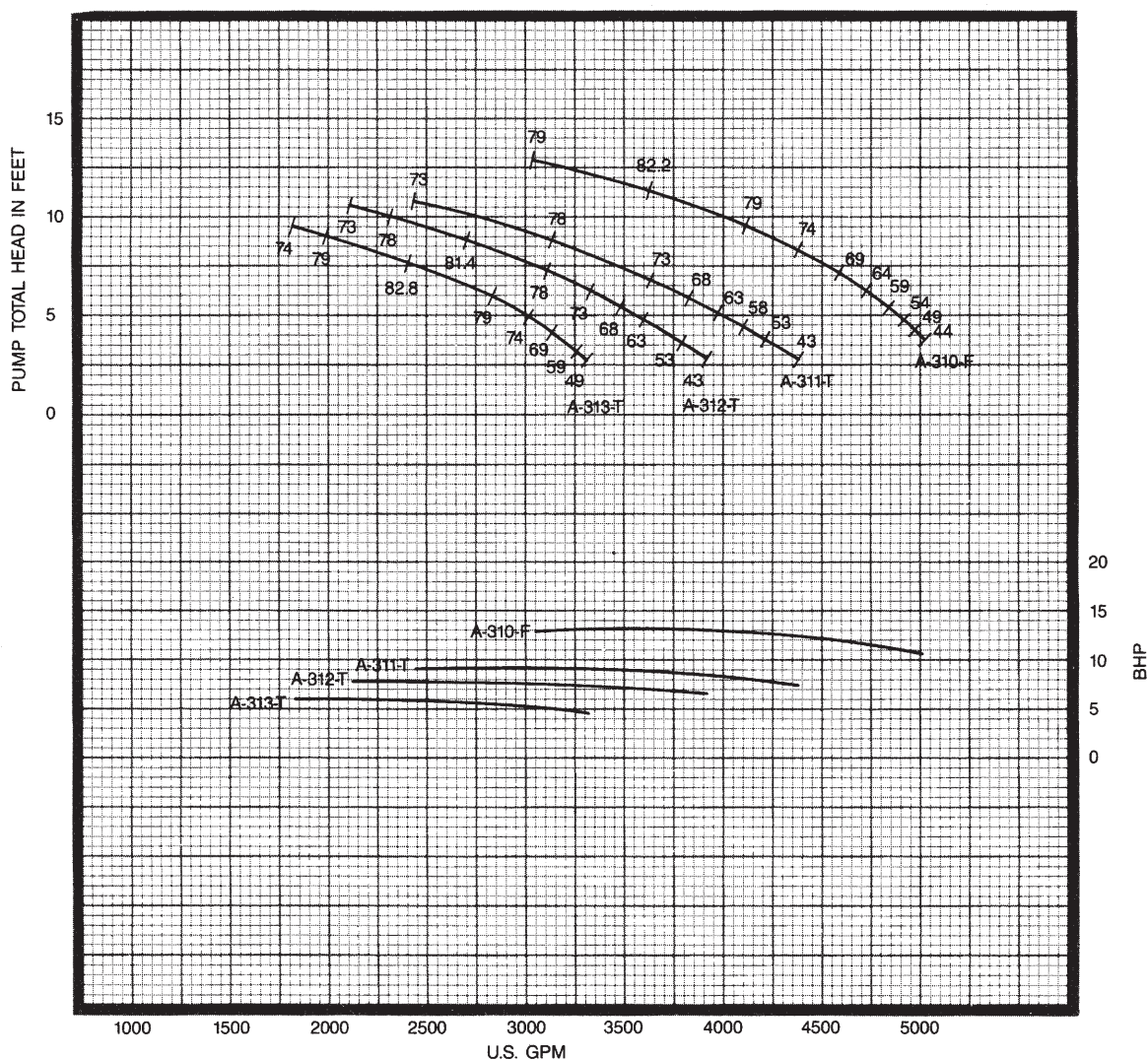


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DATA		VALUE	
PUMP SHAFT DIAMETER		1.9375 IN.	
MAXIMUM SPHERE SIZE		3.38 IN.	
K _t (THRUST FACTOR)		101 LBS./FT.	
K _a (TOTAL ROTOR WEIGHT)		250 LBS.	
K _s (SETTING CONSTANT)		10.0 LBS./FT.	
WK ²		86 LBS.-FT. ²	
BOWL ASSEMBLY WEIGHT		2150 LBS.	
EYE AREA: PROPELLER NO. A-342-T		203.0 SQ. IN.	3 VANE
PROPELLER NO. A-342.5-T		203.0 SQ. IN.	3 VANE
PROPELLER NO. A-343-T		203.0 SQ. IN.	3 VANE
PROPELLER NO.			
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.



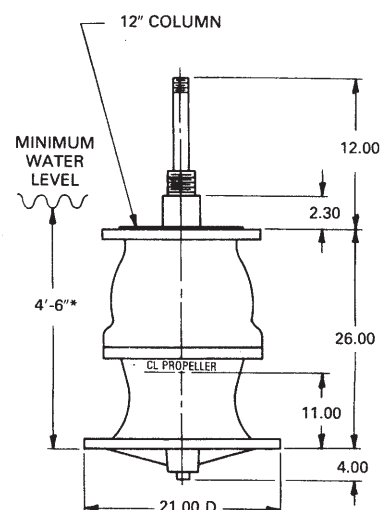
14"
8312
705
RPM
1
STAGE

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 _t (THRUST FACTOR)	46 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	45 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	7.1 LBS.-FT. ²
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.



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14"
8312

705
RPM

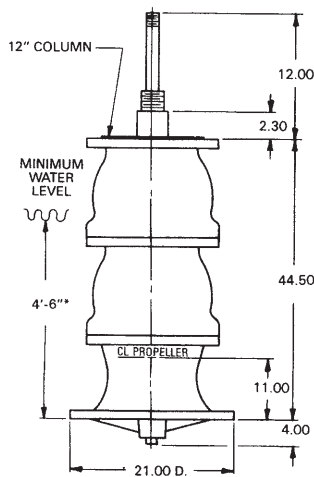
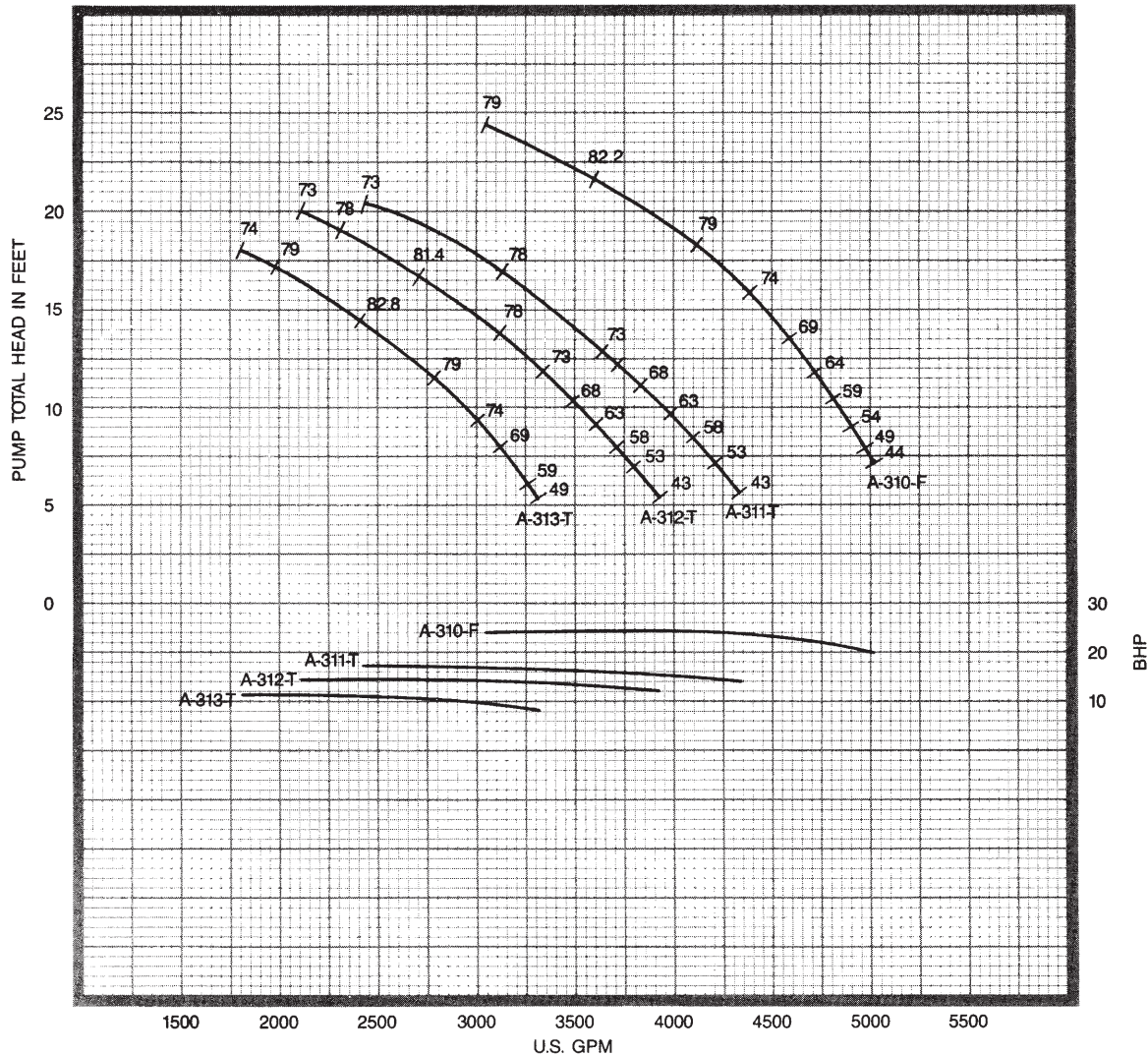
2
STAGE

14"
COLUMN

14"
CAST IRON
ELBOW

1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

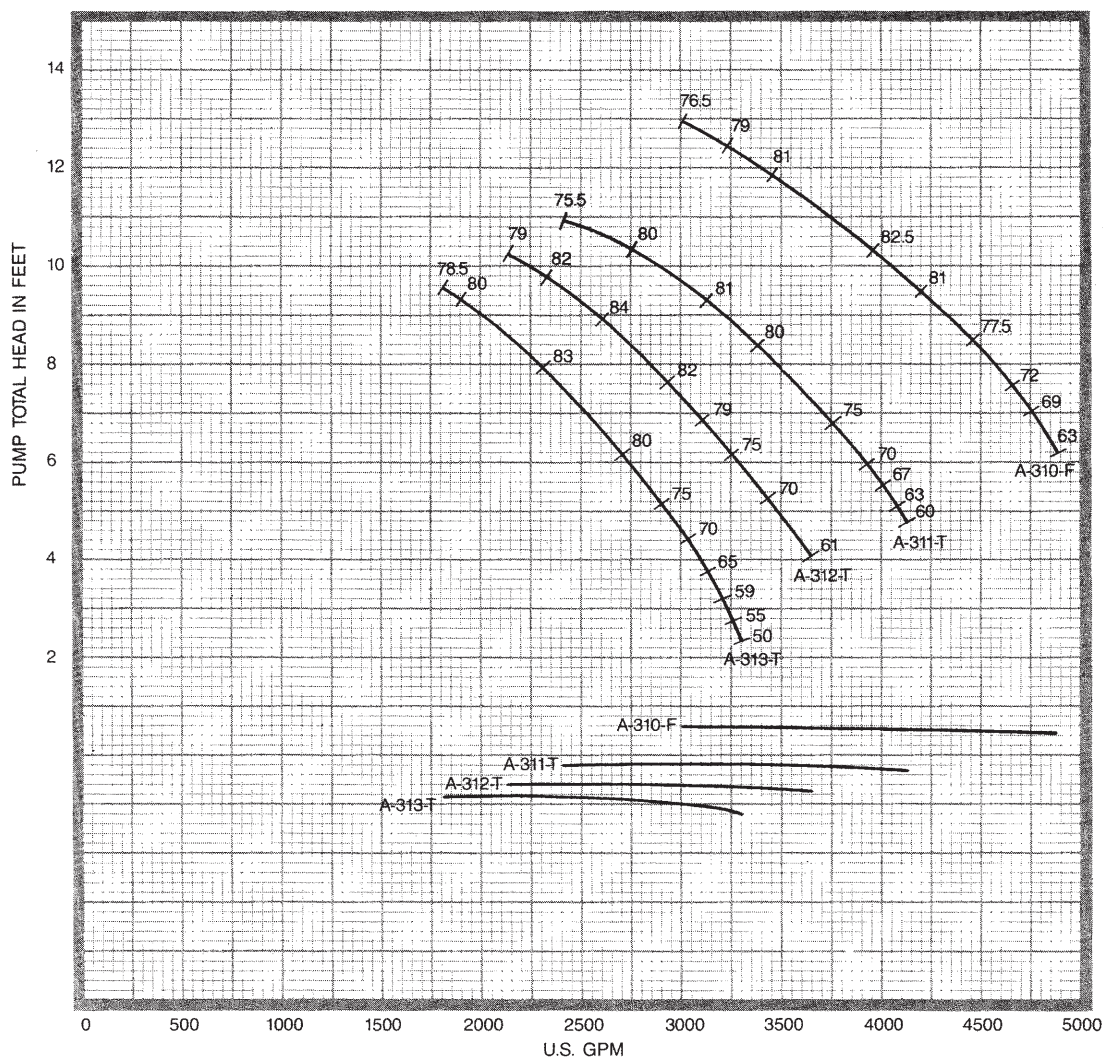


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DATA		VALUE
PUMP SHAFT DIAMETER		1.6875 IN.
MAXIMUM SPHERE SIZE		2.25 IN.
K _t (THRUST FACTOR)		46 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		90 LBS.
K _s (SETTING CONSTANT)		7.6 LBS./FT.
WK ²		14.2 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		770 LBS.
EYE AREA:	PROPELLER 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.



14"
8312

705
RPM

1
STAGE

16"
COLUMN

16"
FABRICATED
STEEL ELBOW

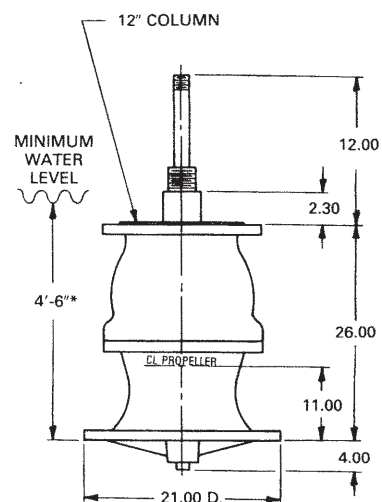
1-1/2"
LINESHAFT

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 _a (TOTAL ROTOR WEIGHT)	45 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	7.1 LBS.-FT. ²
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.



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14"
8312

705
RPM

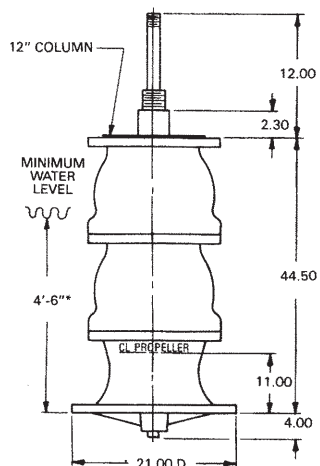
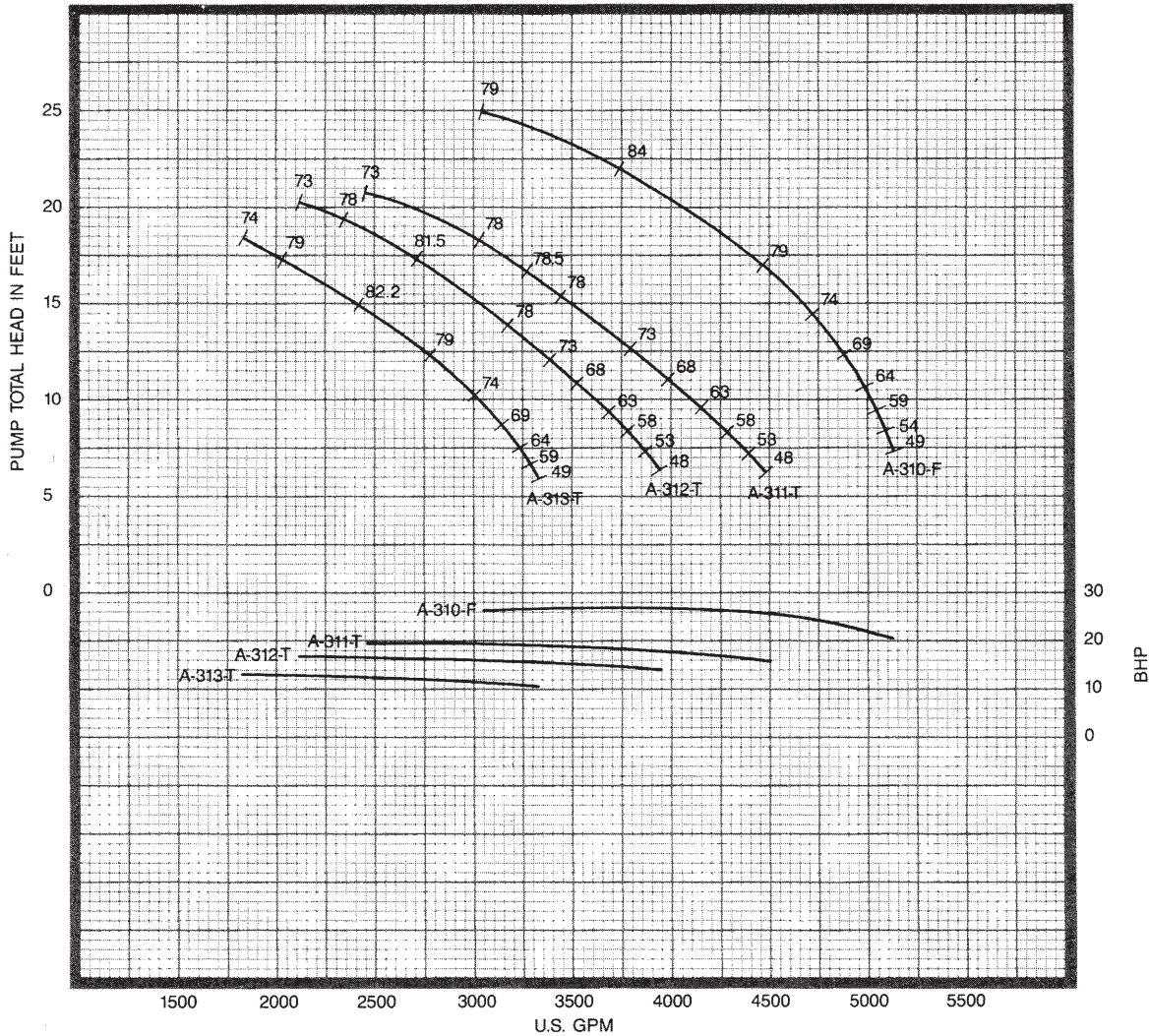
2
STAGE

16"
COLUMN

16"
FABRICATED
STEEL ELBOW

1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

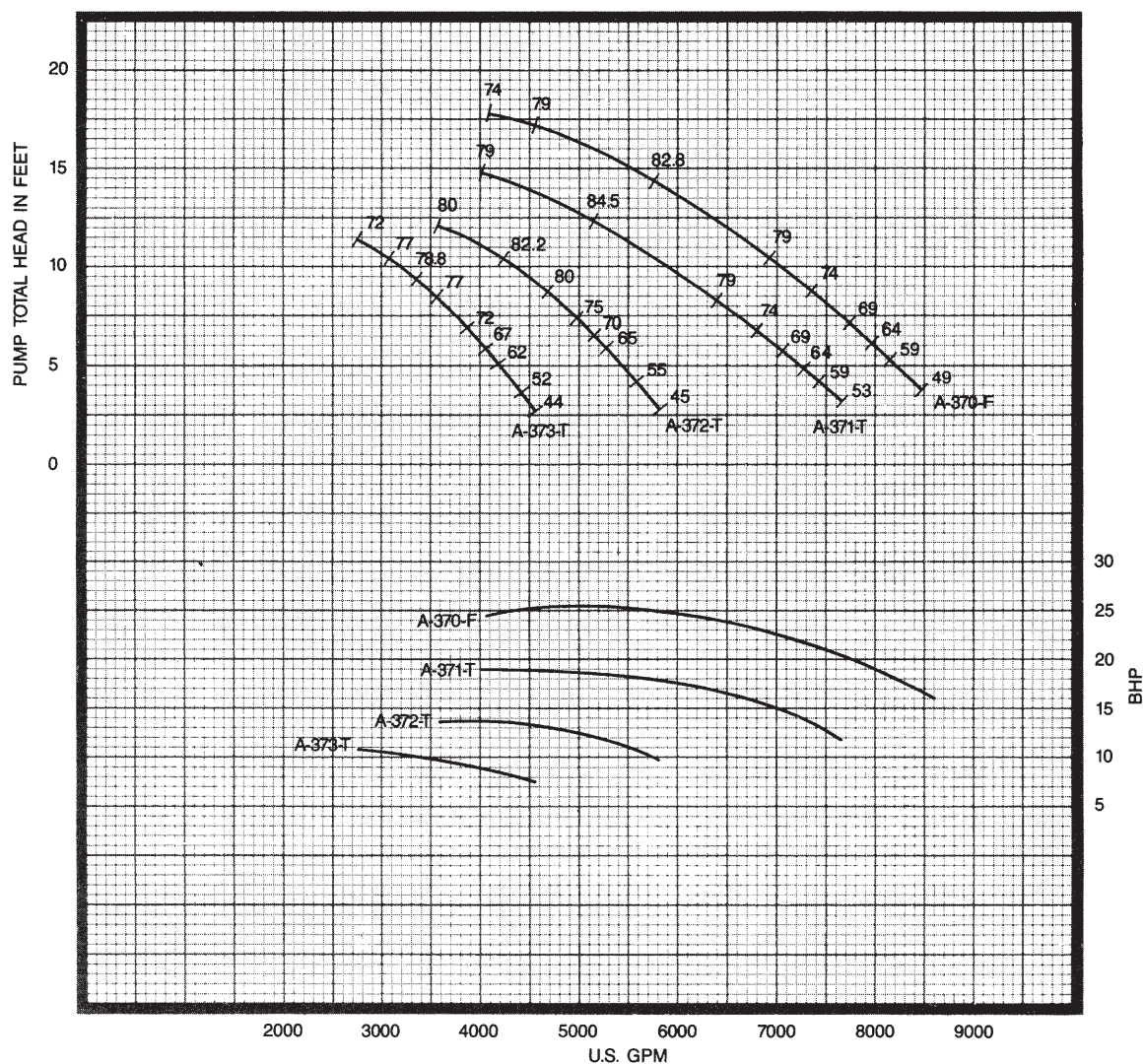


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

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. ²
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.



16"
8312

705
RPM

1
STAGE

16"
COLUMN

16"
FABRICATED
STEEL ELBOW

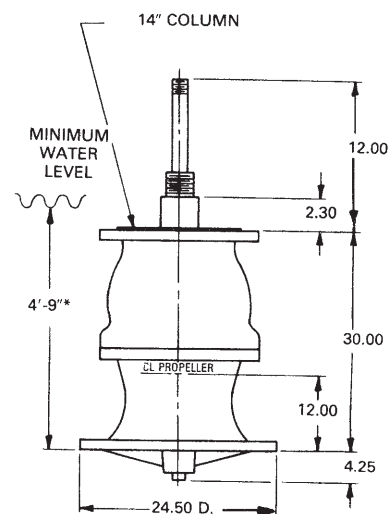
1-1/2"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.63 IN.
K _t (THRUST FACTOR)	62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	66 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	14 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	625 LBS.
EYE AREA: PROPELLER NO. A-372-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-370-F	124.0 SQ. IN. 4 VANE
PROPELLER NO. A-371-T	124.0 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.



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16"
8312

705
RPM

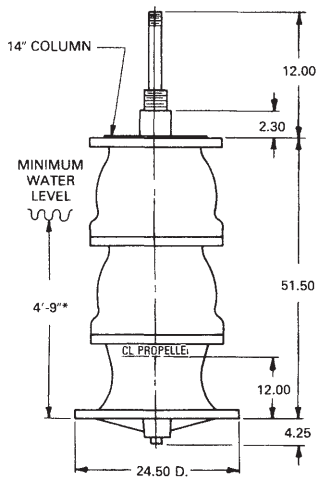
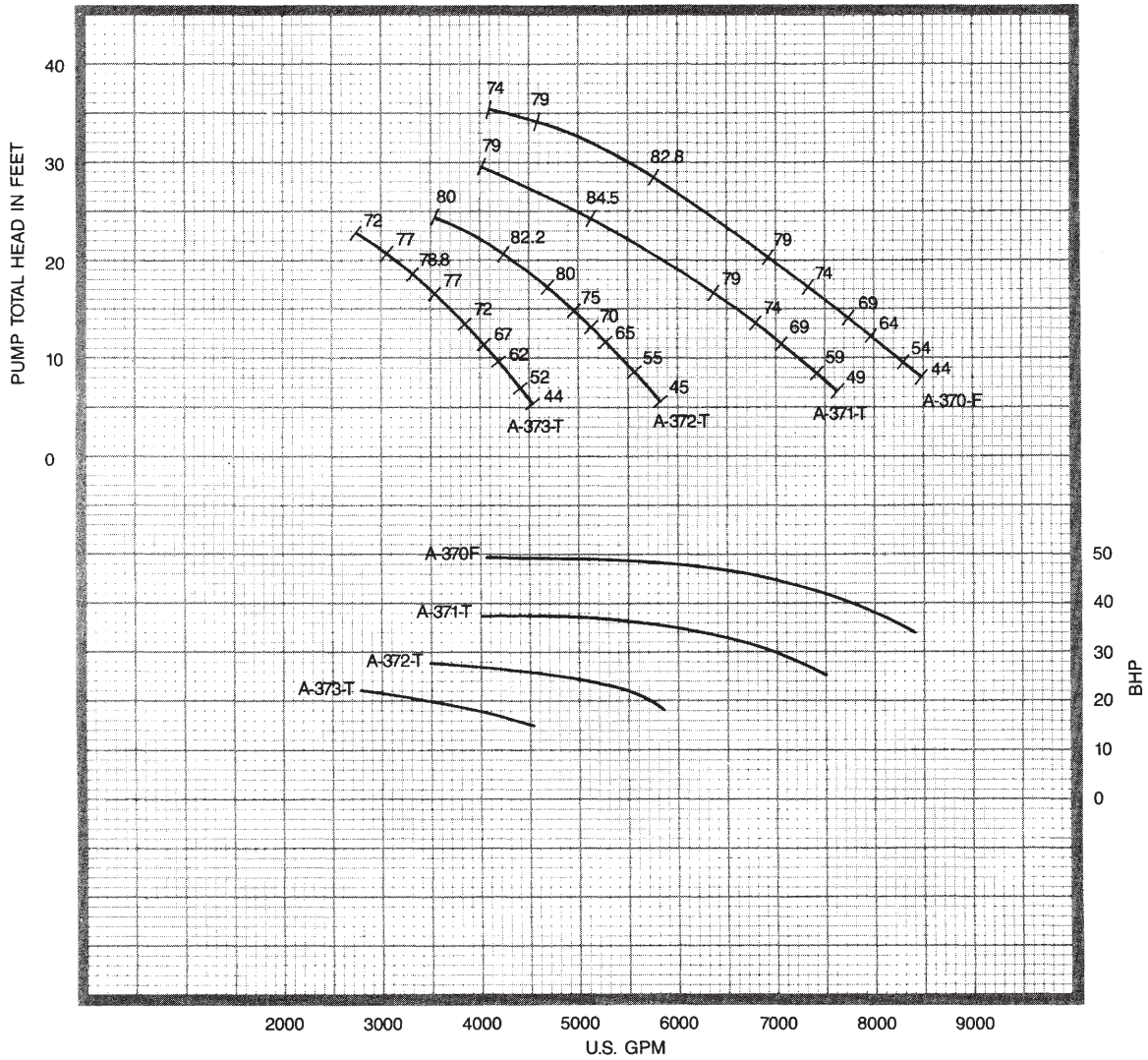
2
STAGE

16"
COLUMN

16"
FABRICATED
STEEL ELBOW

1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

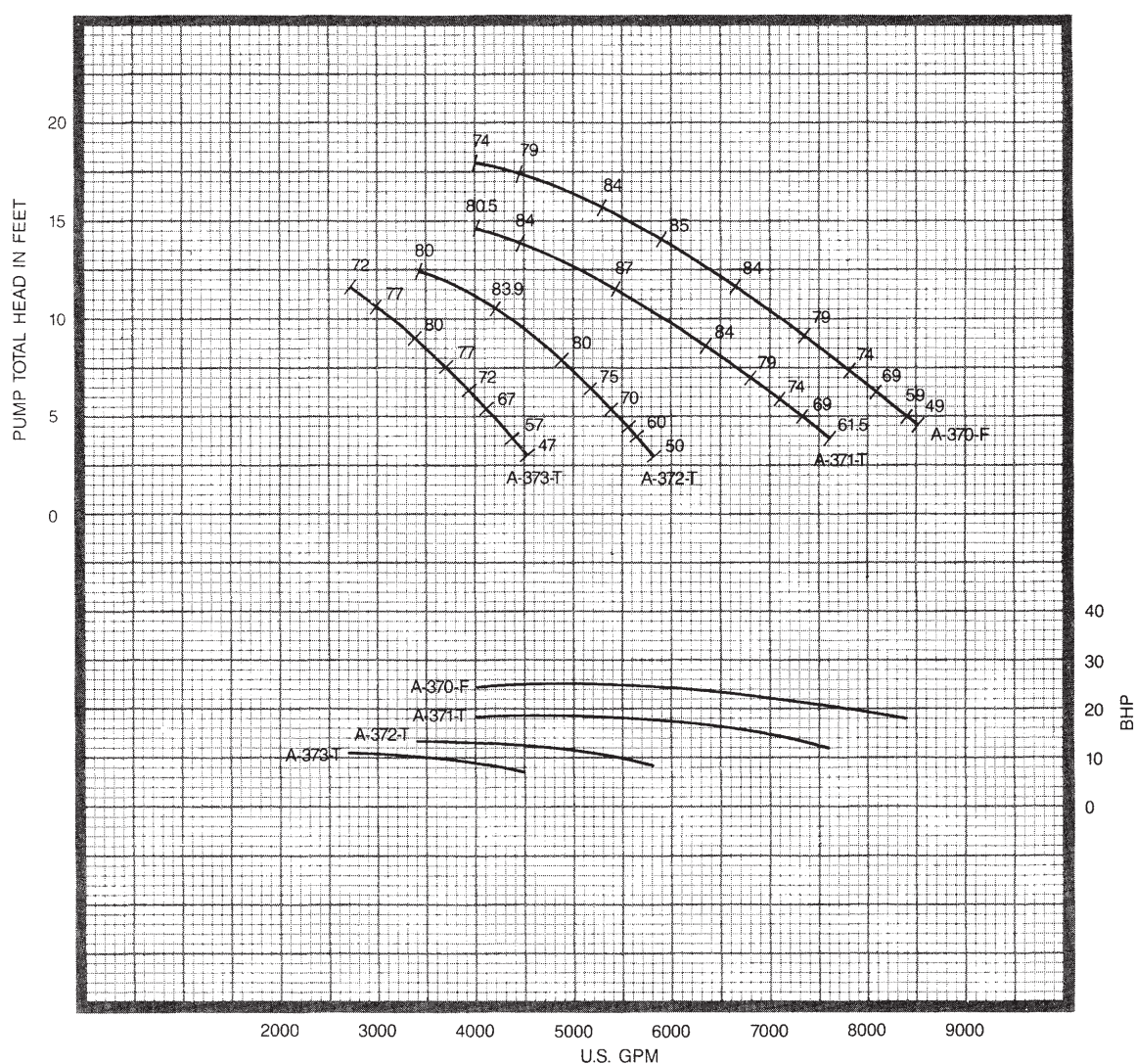


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.6875 IN.
MAXIMUM SPHERE SIZE		2.63 IN.
K _t (THRUST FACTOR)		62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		132 LBS.
K _s (SETTING CONSTANT)		7.6 LBS./FT.
WK ²		28 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		1025 LBS.
EYE AREA: PROPELLER NO. A-372-T	124.0 SQ. IN.	3 VANE
PROPELLER NO. A-373-T	124.0 SQ. IN.	3 VANE
PROPELLER NO. A-370-F	124.0 SQ. IN.	4 VANE
PROPELLER NO. A-371-T	124.0 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.

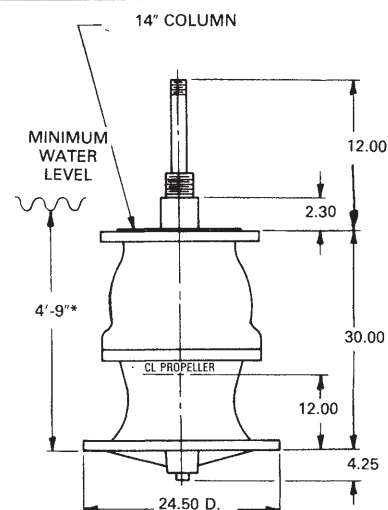
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



DATA	VALUE
PUMP SHAFT DIAMETER	1.6875 IN.
MAXIMUM SPHERE SIZE	2.63 IN.
K _t (THRUST FACTOR)	62 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	66 LBS.
K _s (SETTING CONSTANT)	5.5 LBS./FT.
WK ²	14 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	625 LBS.
EYE AREA: PROPELLER NO. A-372-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-373-T	124.0 SQ. IN. 3 VANE
PROPELLER NO. A-370-F	124.0 SQ. IN. 4 VANE
PROPELLER NO. A-371-T	124.0 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.



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16"
8312

705
RPM

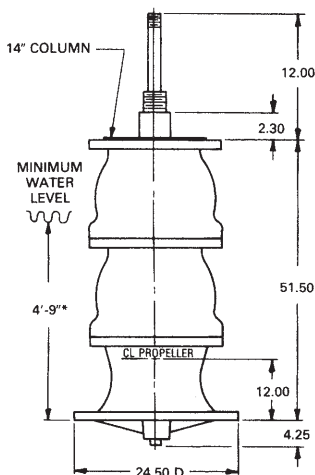
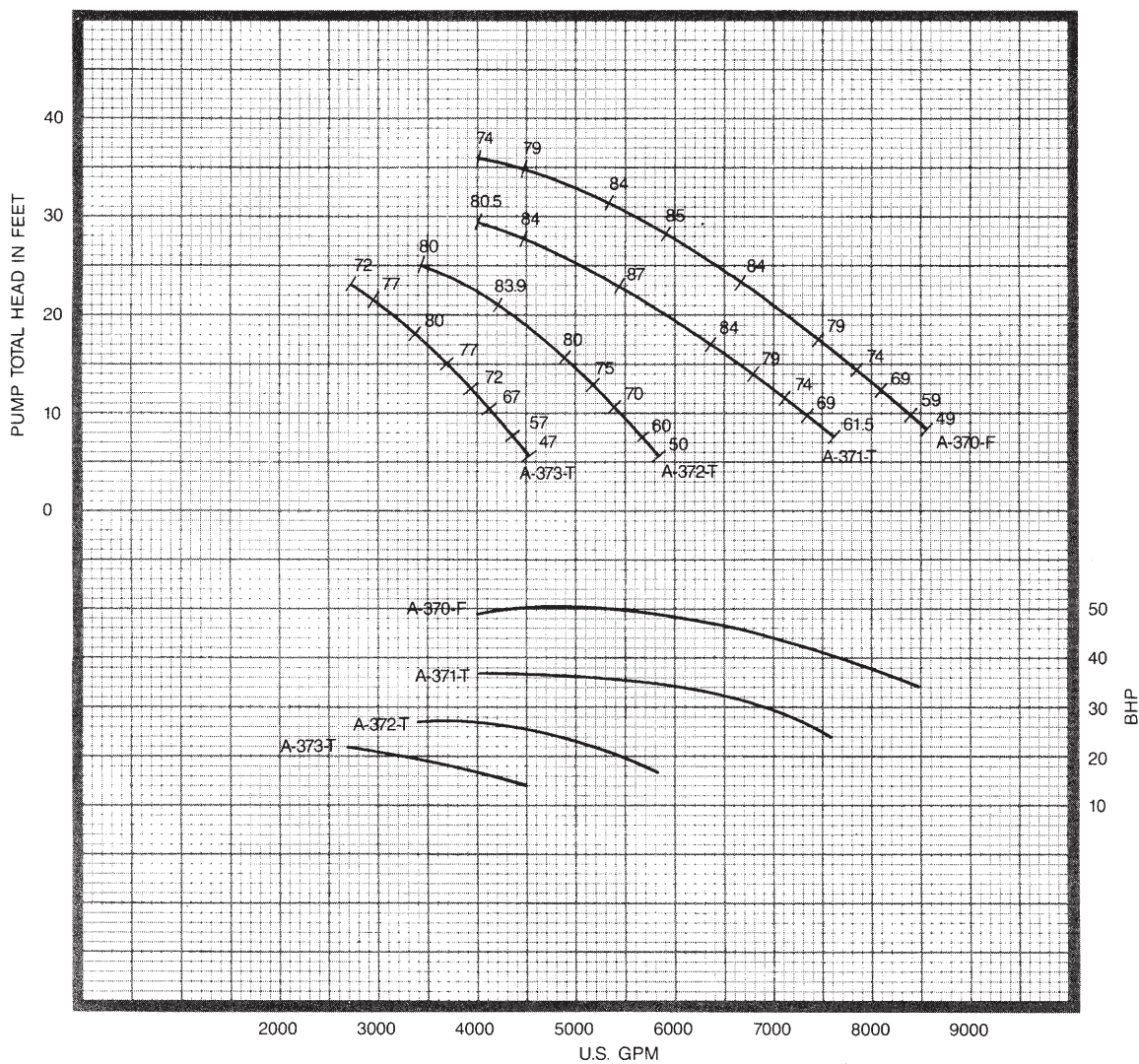
2
STAGE

20"
COLUMN

20"
FABRICATED
STEEL ELBOW

1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

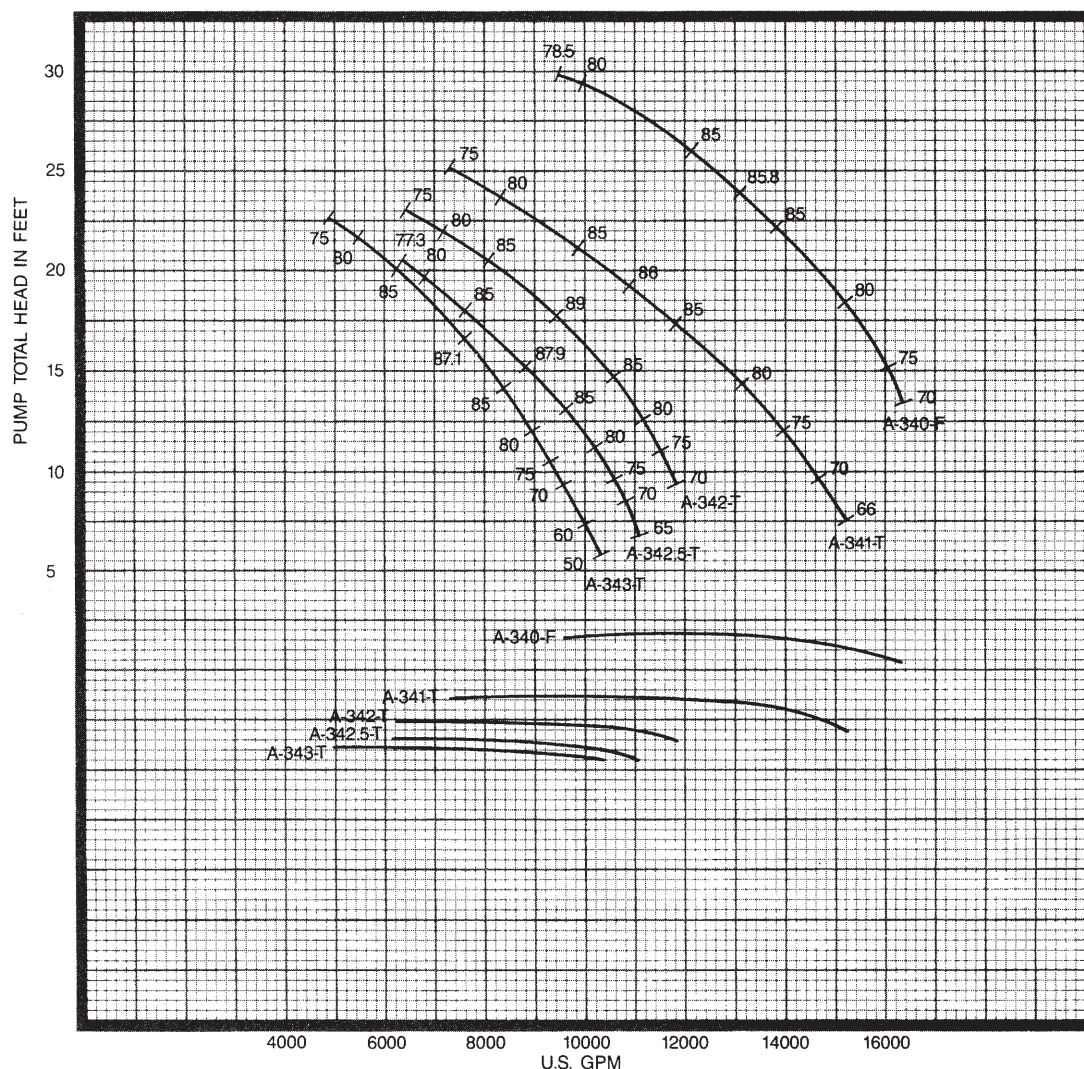


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE	
PUMP SHAFT DIAMETER		1.6875 IN.	
MAXIMUM SPHERE SIZE		2.63 IN.	
K _t (THRUST FACTOR)		62 LBS./FT.	
K _a (TOTAL ROTOR WEIGHT)		132 LBS.	
K _s (SETTING CONSTANT)		7.6 LBS./FT.	
WK ²		28 LBS.-FT. ²	
BOWL ASSEMBLY WEIGHT		1025 LBS.	
EYE AREA: PROPELLER NO. A-372-T		124.0 SQ. IN.	3 VANE
PROPELLER NO. A-373-T		124.0 SQ. IN.	3 VANE
PROPELLER NO. A-370-F		124.0 SQ. IN.	4 VANE
PROPELLER NO. A-371-T		124.0 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.



20"
8312

705
RPM

1
STAGE

20"
COLUMN

20"
FABRICATED
STEEL
ELBOW

1-11/16"
LINESHAFT

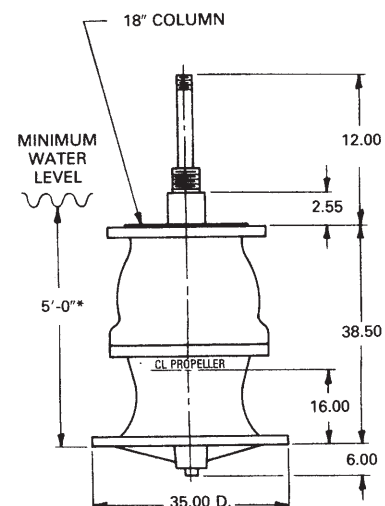
2-1/2"
ENCLOSING
TUBE

100
75
50
25
BHP

DATA	VALUE
PUMP SHAFT DIAMETER	1.9375 IN.
MAXIMUM SPHERE SIZE	3.38 IN.
K _t (THRUST FACTOR)	101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	125 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	43 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1300 LBS.
EYE AREA: PROPELLER NO. A-340-F	203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T	203.0 SQ. IN. 3 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.



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20"
8312

705
RPM

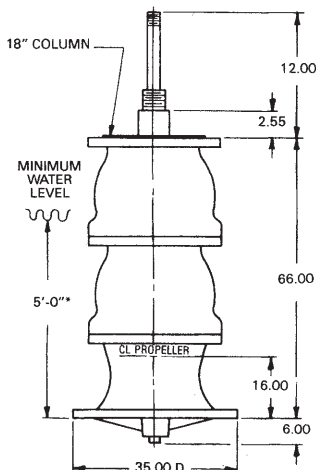
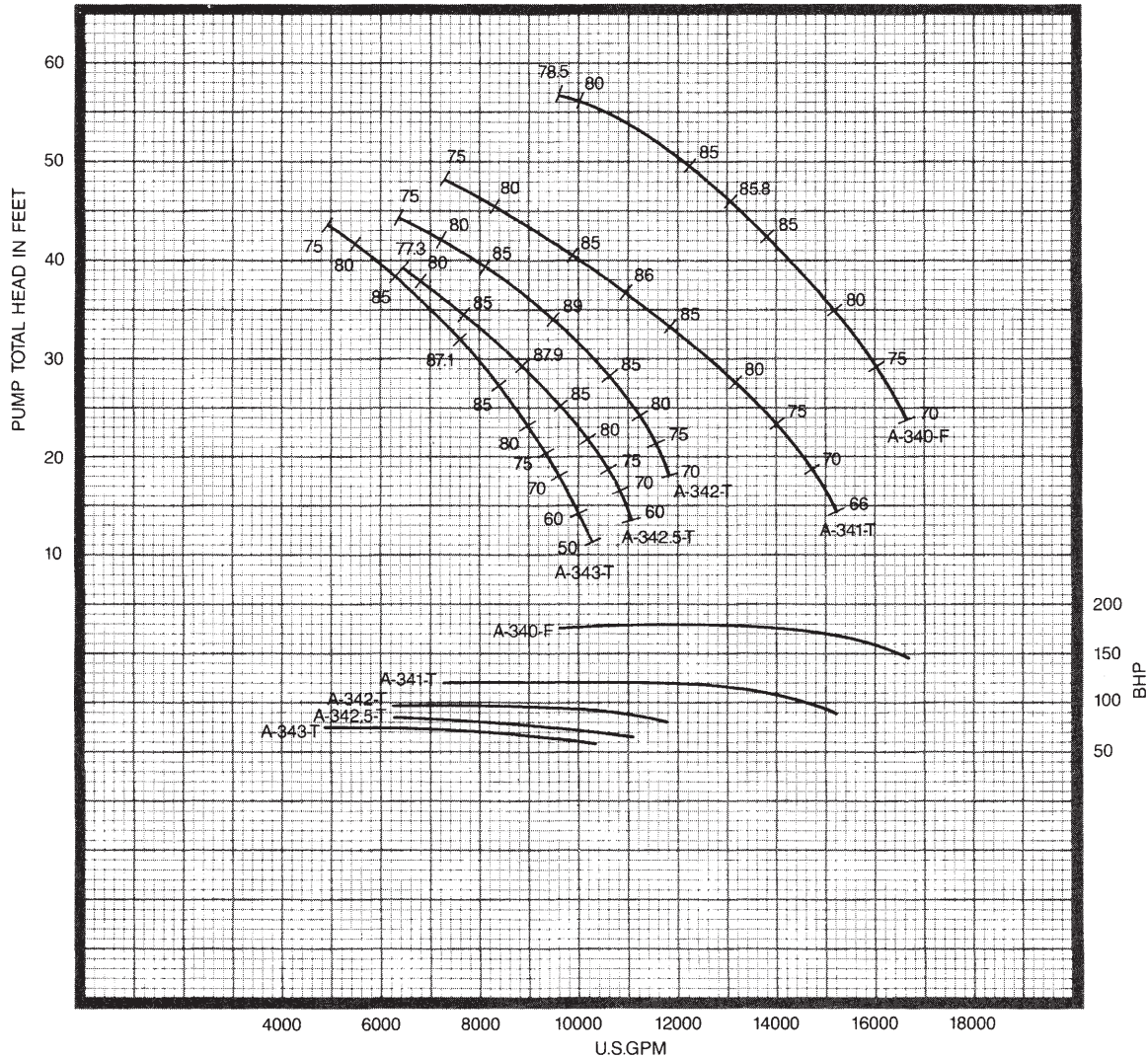
2
STAGE

20"
COLUMN

20"
FABRICATED
STEEL
ELBOW

1-15/16"
LINESHAFT

3"
ENCLOSING
TUBE

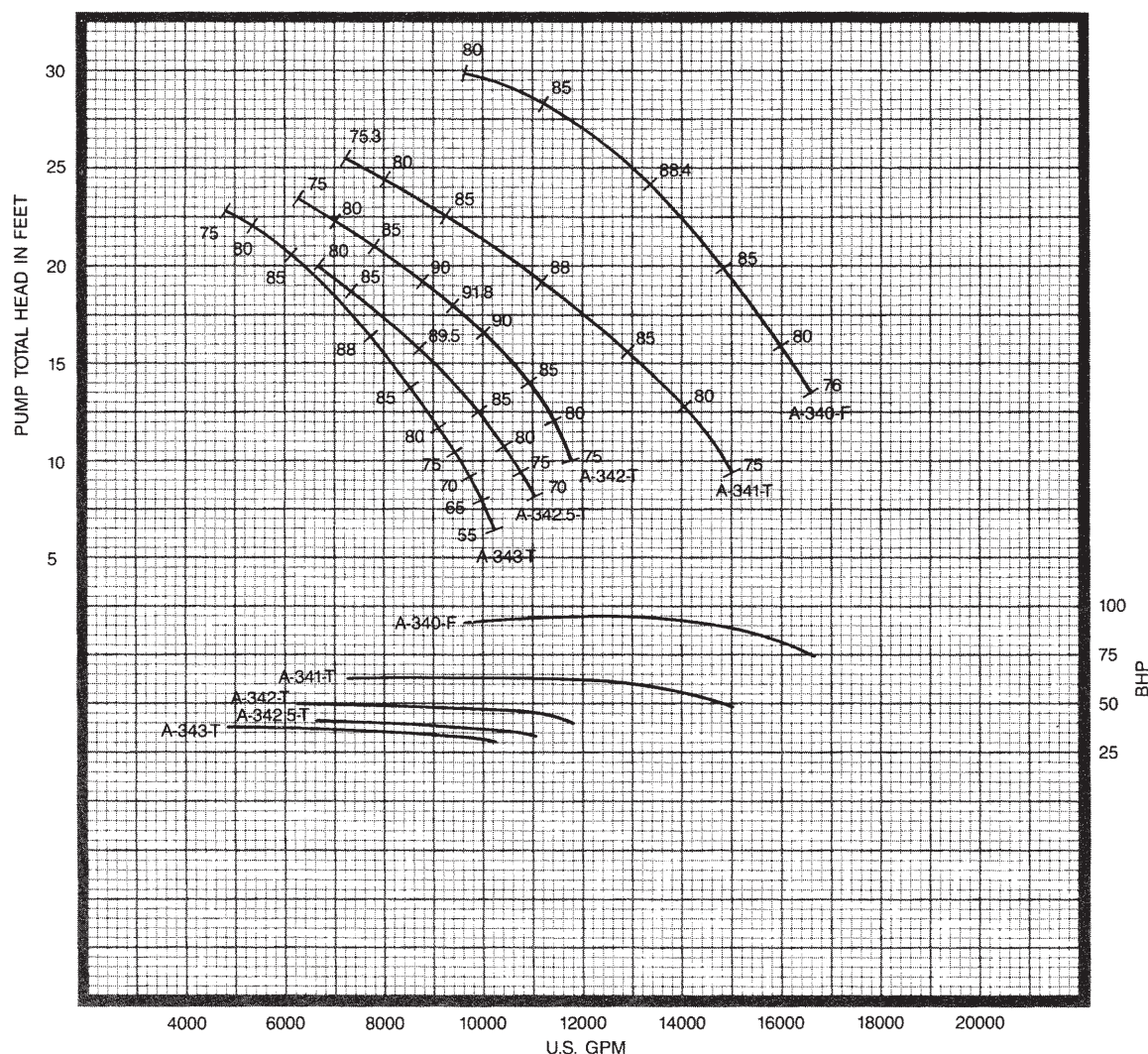


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DATA		VALUE
PUMP SHAFT DIAMETER		1.9375 IN.
MAXIMUM SPHERE SIZE		3.38 IN.
K _t (THRUST FACTOR)		101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		250 LBS.
K _s (SETTING CONSTANT)		10.0 LBS./FT.
WK ²		86 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		2150 LBS.
EYE AREA: PROPELLER NO. A-340-F		203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T		203.0 SQ. IN. 3 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.



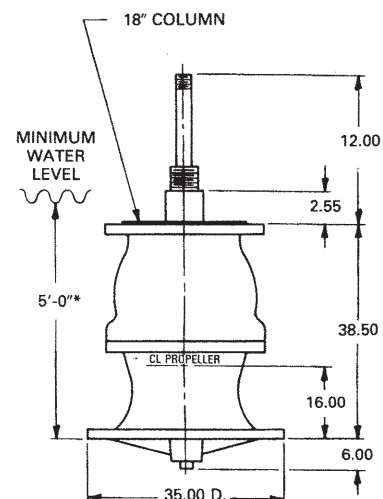
20"
8312
705
RPM
1
STAGE

24"
COLUMN
24"
FABRICATED
STEEL
ELBOW
1-11/16"
LINESHAFT
2-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.9375 IN.
MAXIMUM SPHERE SIZE	3.38 IN.
K _t (THRUST FACTOR)	101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	125 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	43 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1300 LBS.
EYE AREA: PROPELLER NO. A-340-F	203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T	203.0 SQ. IN. 3 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.



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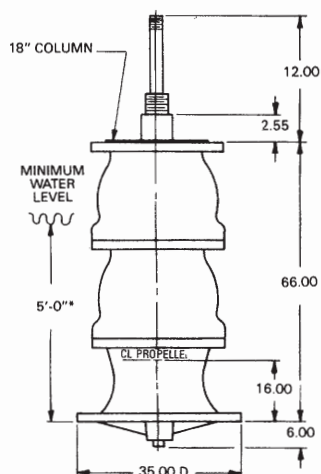
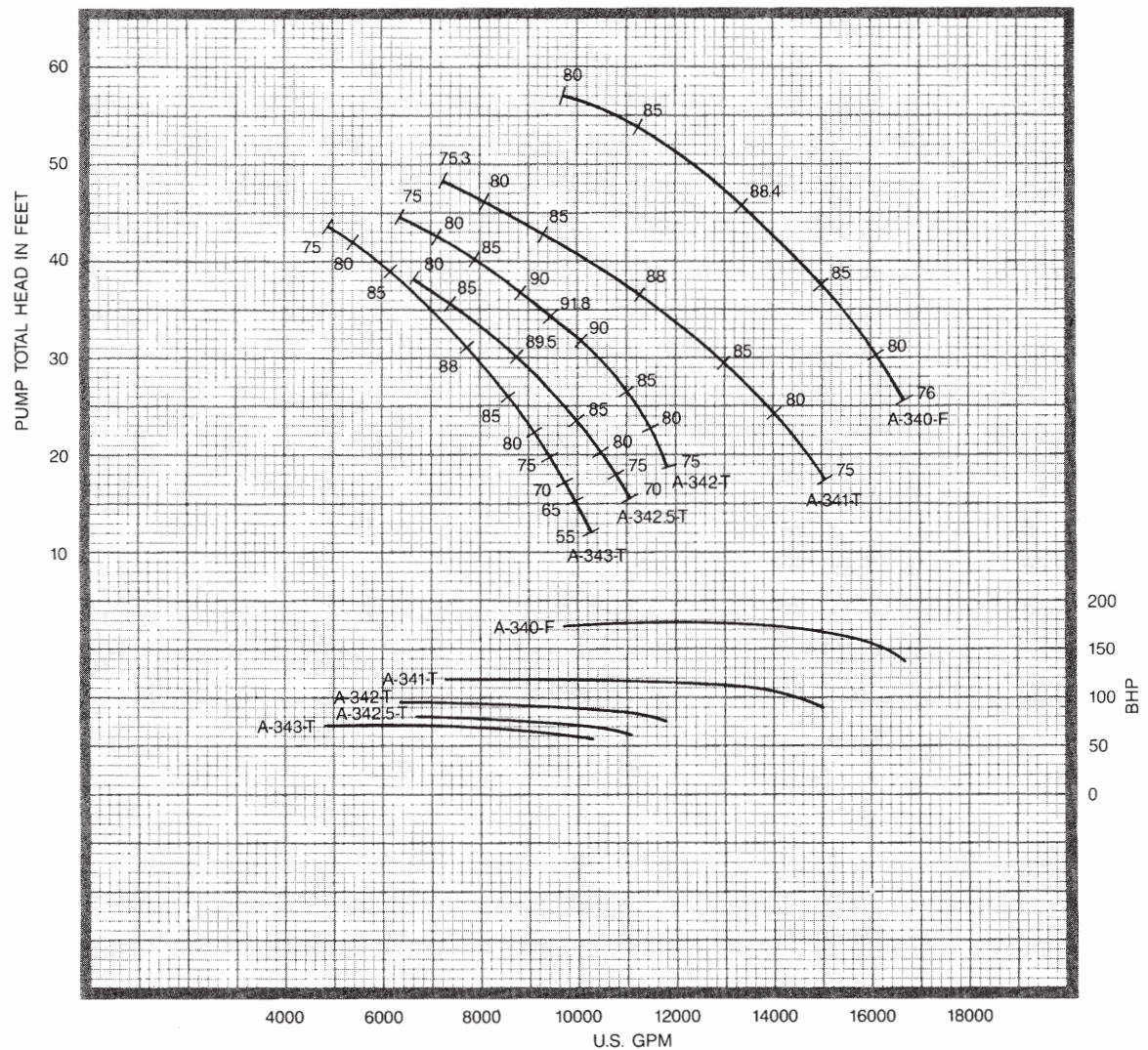
20"
8312
705
RPM
2
STAGE

24"
COLUMN

24"
FABRICATED
STEEL
ELBOW

1-15/16"
LINESHAFT

3"
ENCLOSING
TUBE

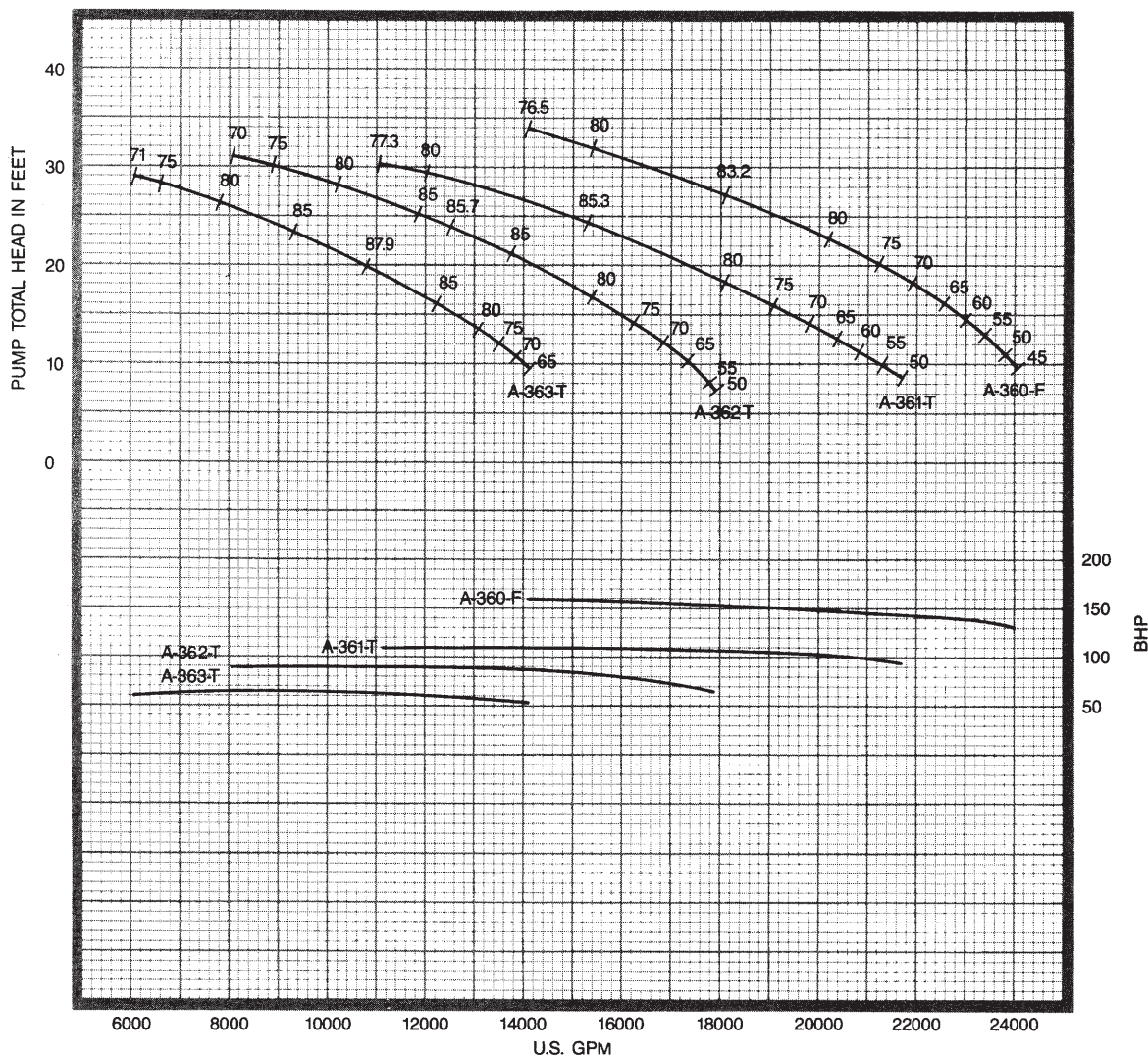


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DATA	VALUE
PUMP SHAFT DIAMETER	1.9375 IN.
MAXIMUM SPHERE SIZE	3.38 IN.
K _t (THRUST FACTOR)	101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	250 LBS.
K _s (SETTING CONSTANT)	10.0 LBS./FT.
WK ²	86 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	2150 LBS.
EYE AREA: PROPELLER NO. A-340-F	203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T	203.0 SQ. IN. 3 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.



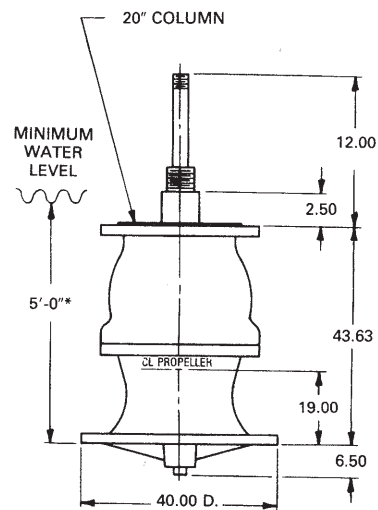
24"
8312
705
RPM
1
STAGE

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 _t (THRUST FACTOR)	127 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	175 LBS.
K _s (SETTING CONSTANT)	12.8 LBS./FT.
WK ²	77 LBS.-FT. ²
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.



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24"
8312

705
RPM

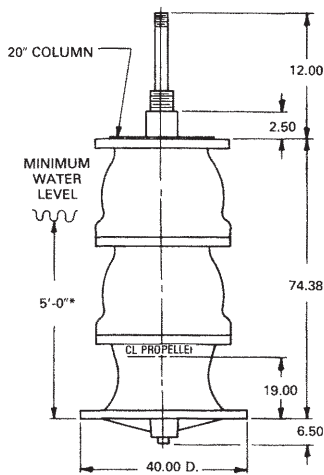
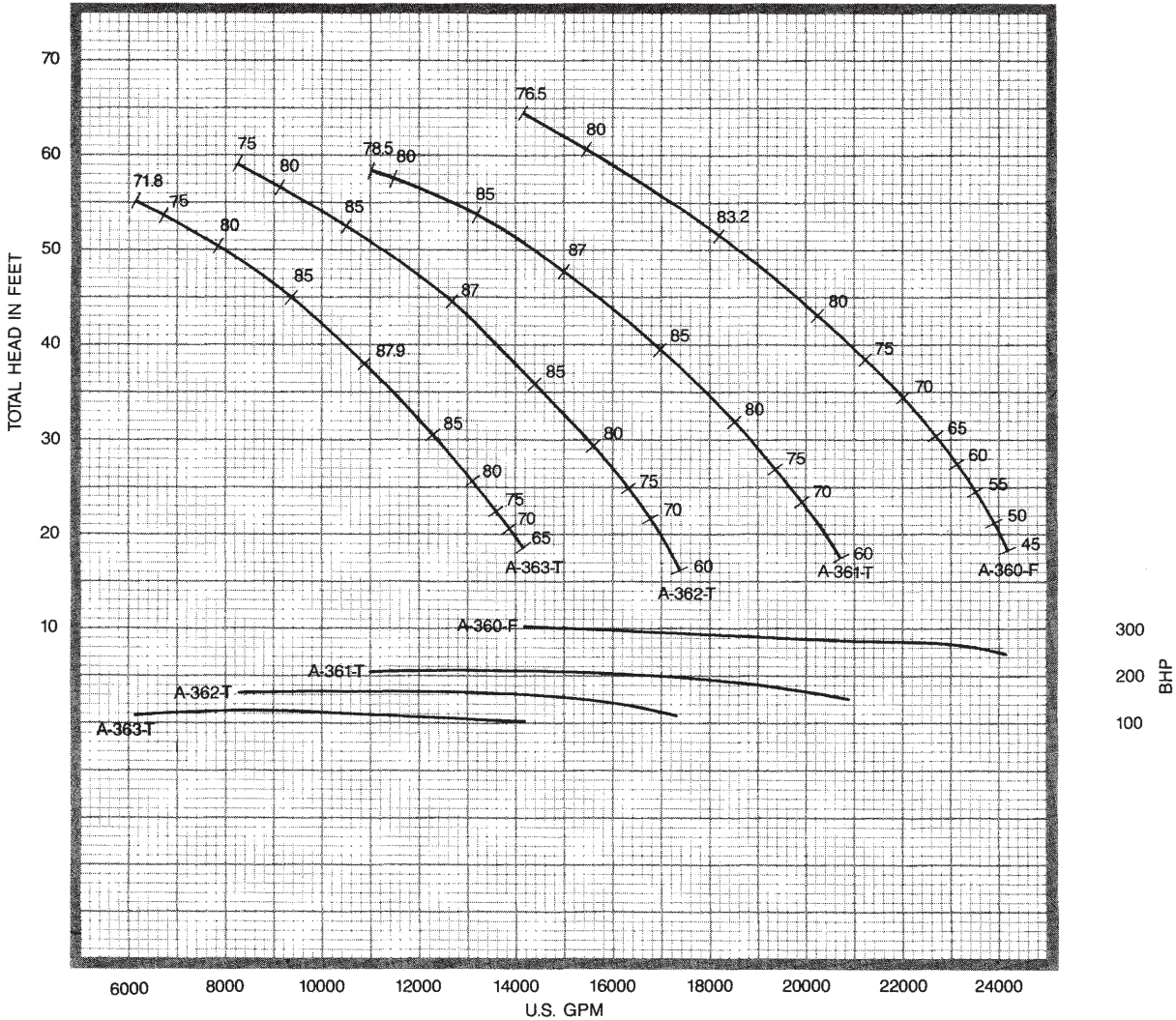
2
STAGE

24"
COLUMN

24"
FABRICATED
STEEL
ELBOW

2-7/16"
LINESHAFT

3-1/2"
ENCLOSING
TUBE

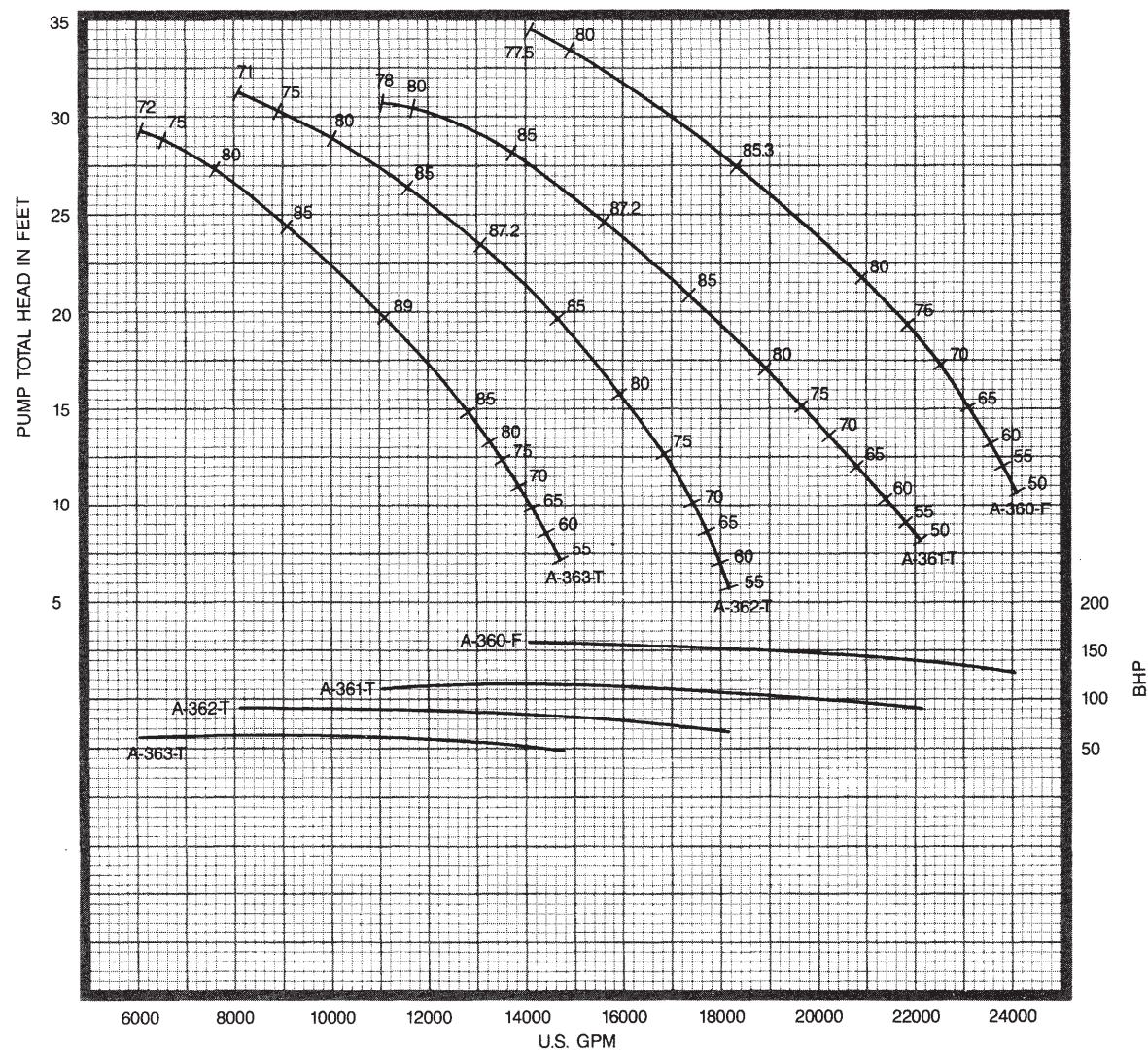


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE	
PUMP SHAFT DIAMETER		2.4375 IN.	
MAXIMUM SPHERE SIZE		3.75 IN.	
K _t (THRUST FACTOR)		127 LBS./FT.	
K _a (TOTAL ROTOR WEIGHT)		350 LBS.	
K _s (SETTING CONSTANT)		15.9 LBS./FT.	
WK ²		154 LBS.-FT. ²	
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.

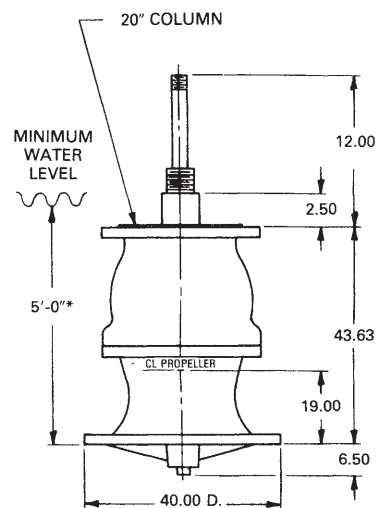
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K _t (THRUST FACTOR)	127 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	175 LBS.
K _s (SETTING CONSTANT)	12.8 LBS./FT.
WK ²	77 LBS.-FT. ²
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.



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24"
8312

705
RPM

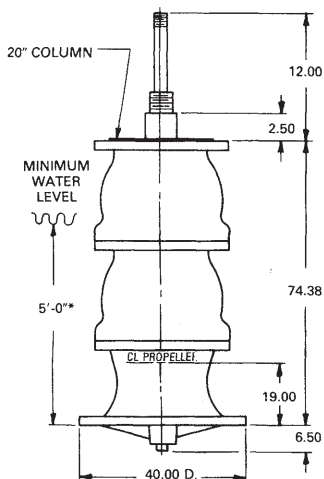
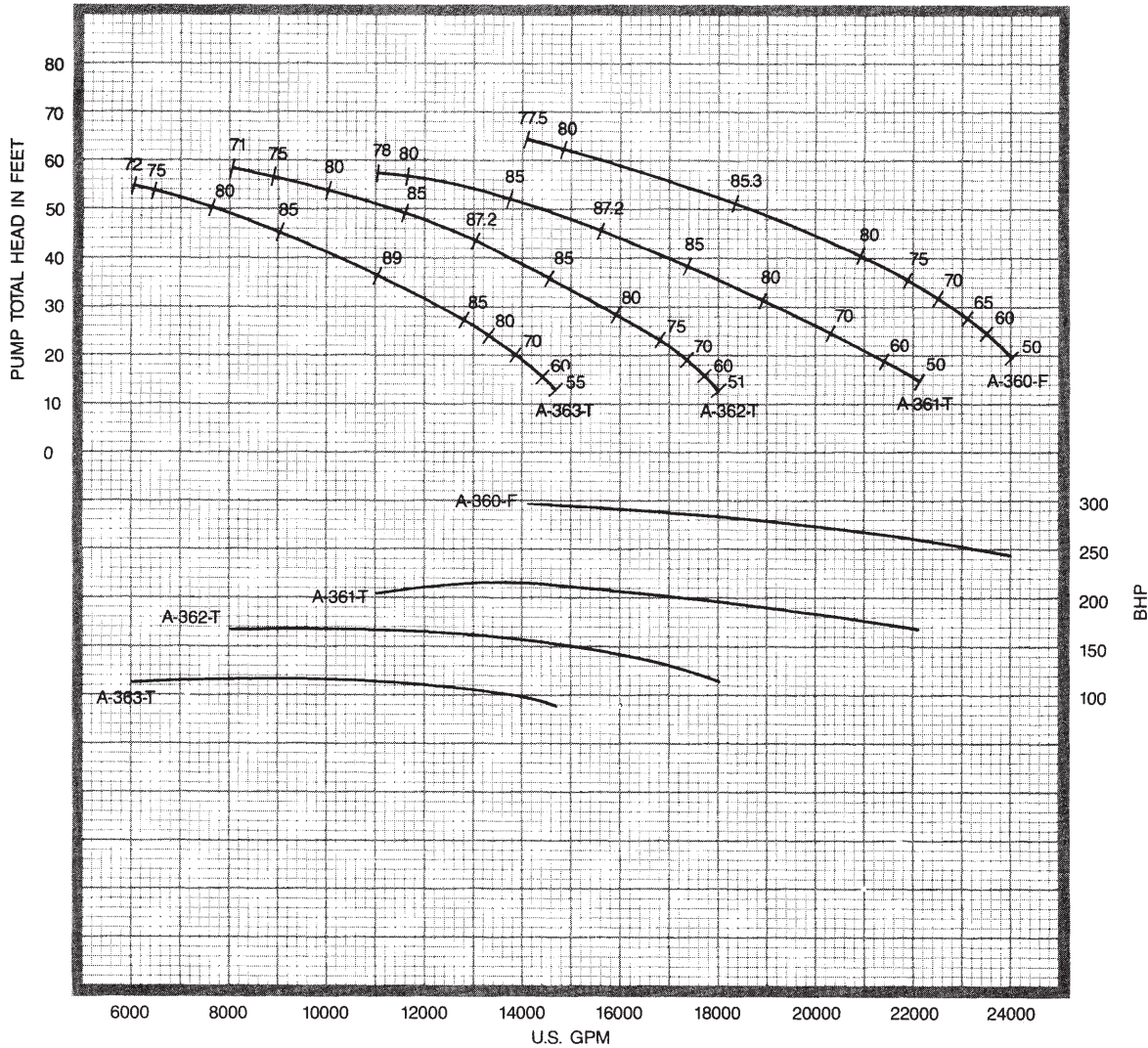
2
STAGE

30"
COLUMN

30"
FABRICATED
STEEL
ELBOW

2-7/16"
LINESHAFT

3-1/2"
ENCLOSING
TUBE

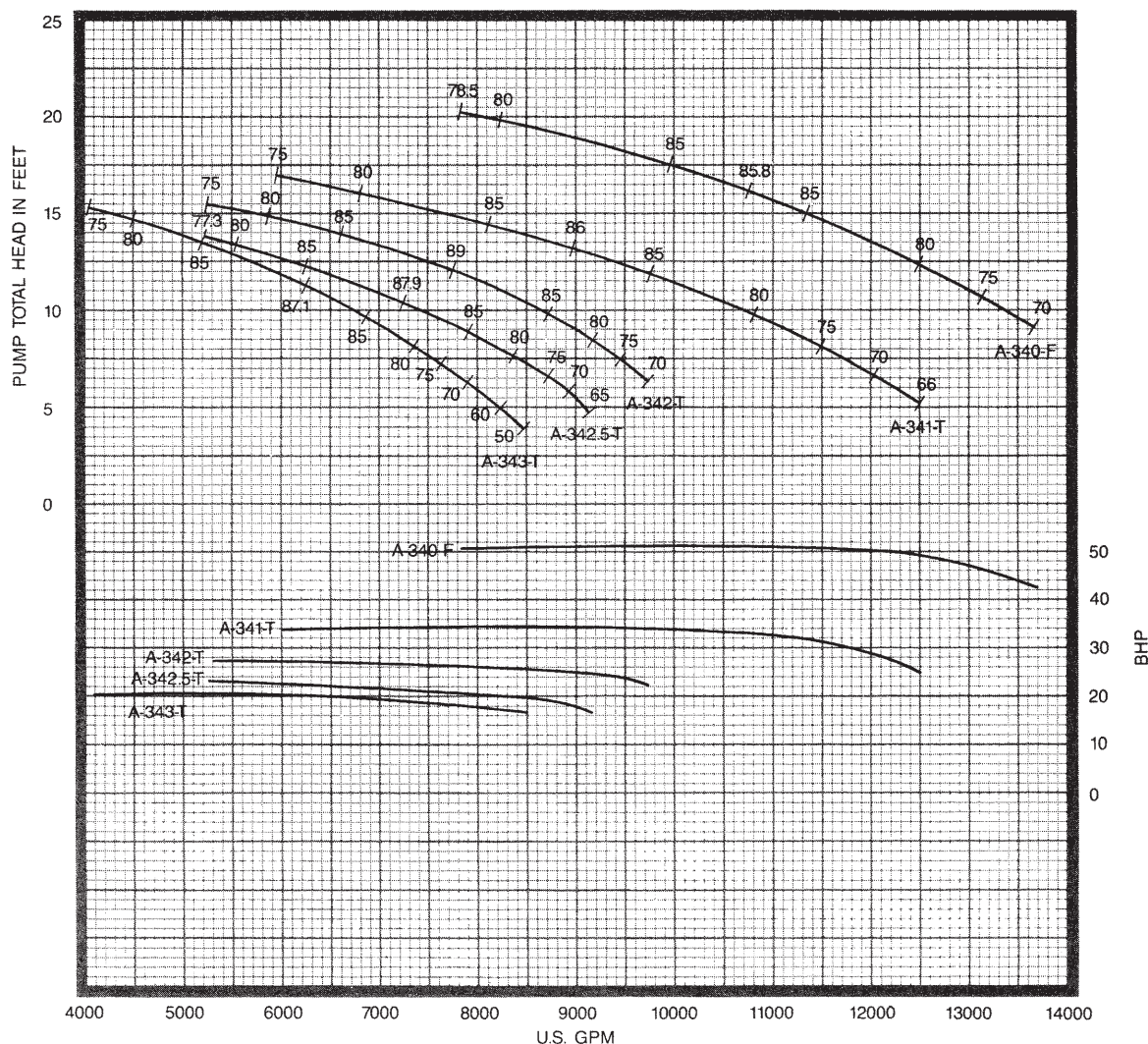


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K _t (THRUST FACTOR)	127 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	350 LBS.
K _s (SETTING CONSTANT)	15.9 LBS./FT.
WK ²	154 LBS.-FT. ²
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.



20"
8312

580
RPM

1
STAGE

20"
COLUMN

20"
FABRICATED
STEEL
ELBOW

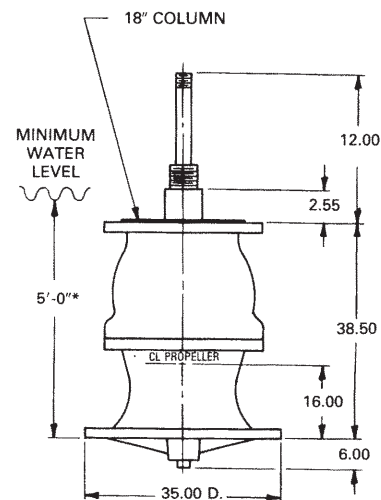
1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.9375 IN.
MAXIMUM SPHERE SIZE	3.38 IN.
K _t (THRUST FACTOR)	101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	125 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	43 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1300 LBS.
EYE AREA: PROPELLER NO. A-340-F	203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T	203.0 SQ. IN. 3 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.



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20"
8312

580
RPM

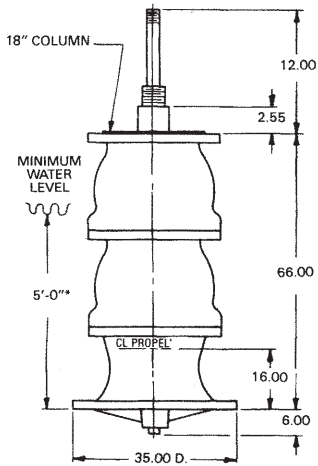
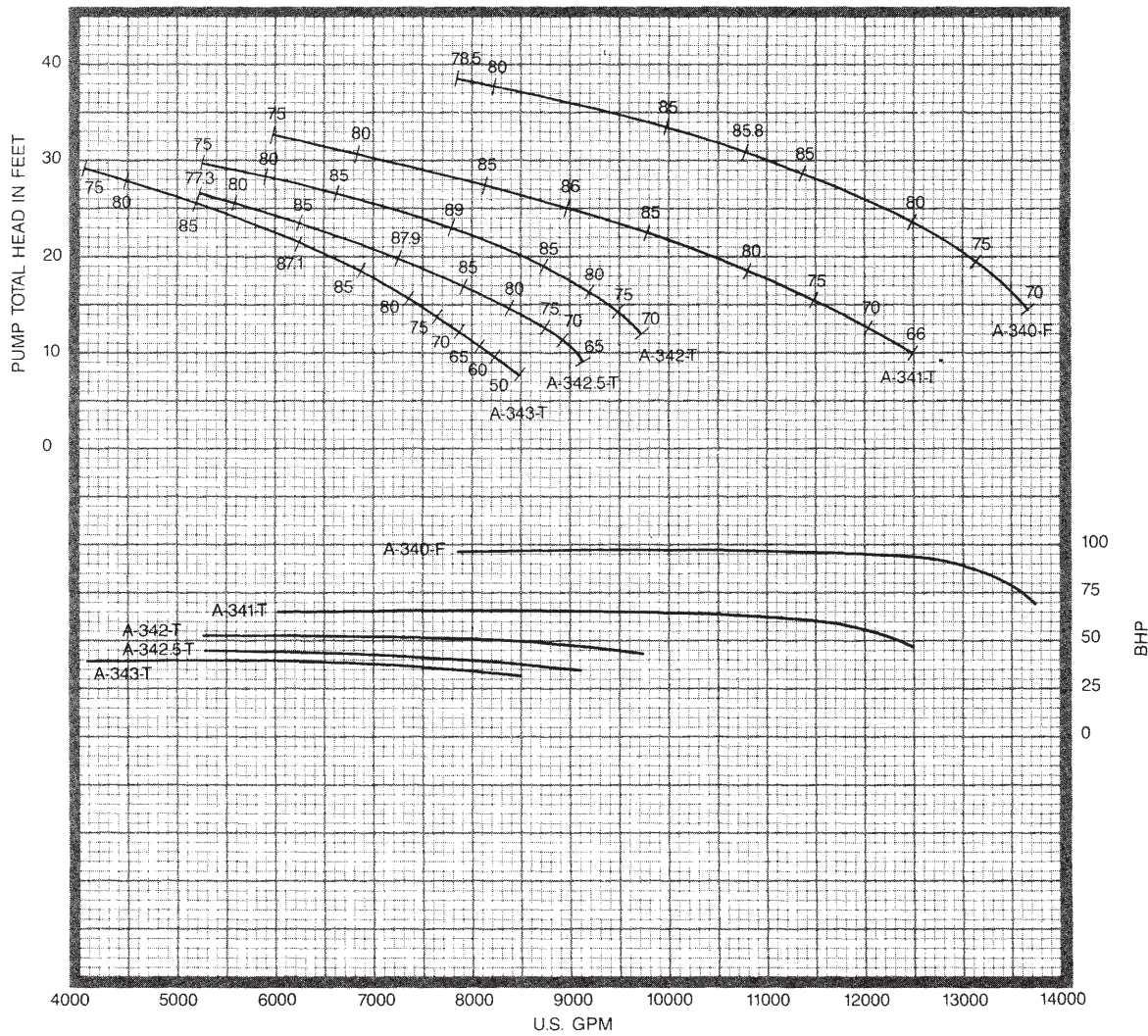
2
STAGE

20"
COLUMN

20"
FABRICATED
STEEL
ELBOW

1-15/16"
LINESHAFT

3"
ENCLOSING
TUBE

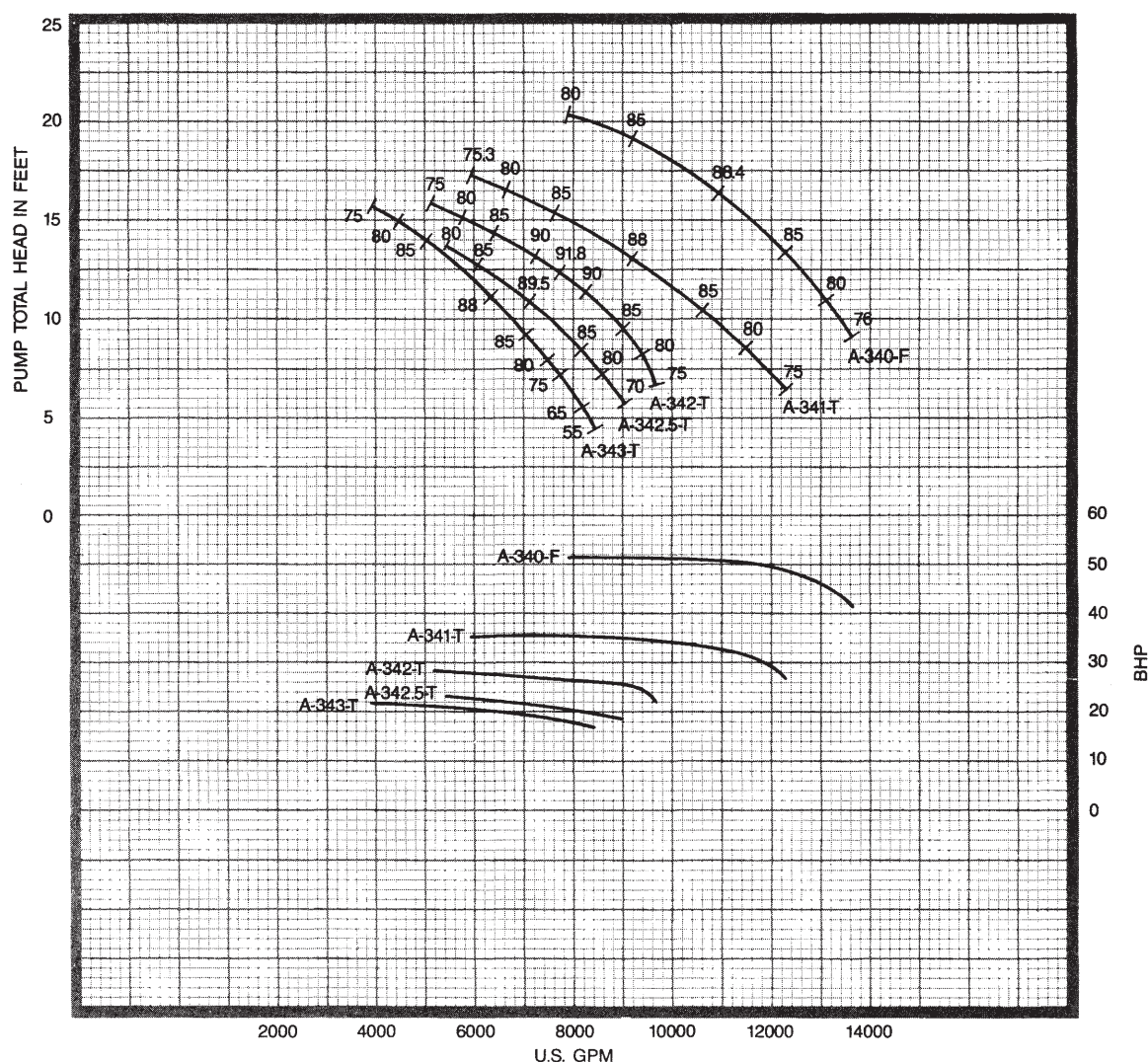


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA		VALUE
PUMP SHAFT DIAMETER		1.9375 IN.
MAXIMUM SPHERE SIZE		3.38 IN.
Kt (THRUST FACTOR)		101 LBS./FT.
Ka (TOTAL ROTOR WEIGHT)		250 LBS.
Ks (SETTING CONSTANT)		10.0 LBS./FT.
WK ²		86 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		2150 LBS.
EYE AREA: PROPELLER NO. A-340-F		203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T		203.0 SQ. IN. 3 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.



20"
8312

580
RPM

1
STAGE

24"
COLUMN

24"
FABRICATED
STEEL
ELBOW

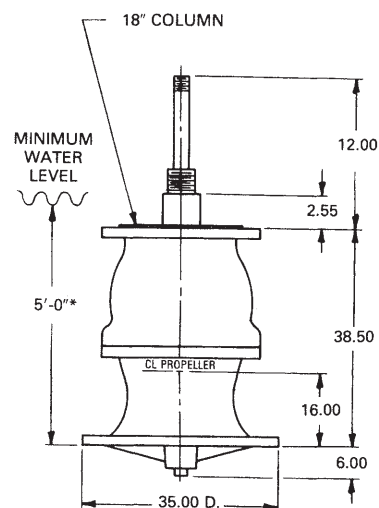
1-11/16"
LINESHAFT

2-1/2"
ENCLOSING
TUBE

DATA	VALUE
PUMP SHAFT DIAMETER	1.9375 IN.
MAXIMUM SPHERE SIZE	3.38 IN.
K _t (THRUST FACTOR)	101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	125 LBS.
K _s (SETTING CONSTANT)	7.6 LBS./FT.
WK ²	43 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1300 LBS.
EYE AREA: PROPELLER NO. A-340-F	203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T	203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T	203.0 SQ. IN. 3 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.



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20"
8312

580
RPM

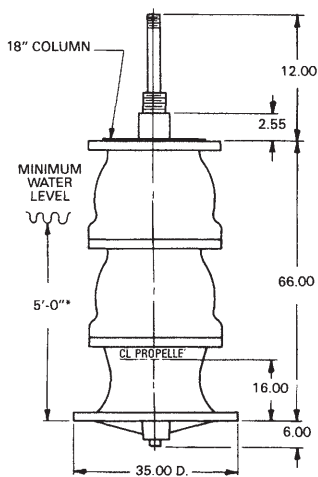
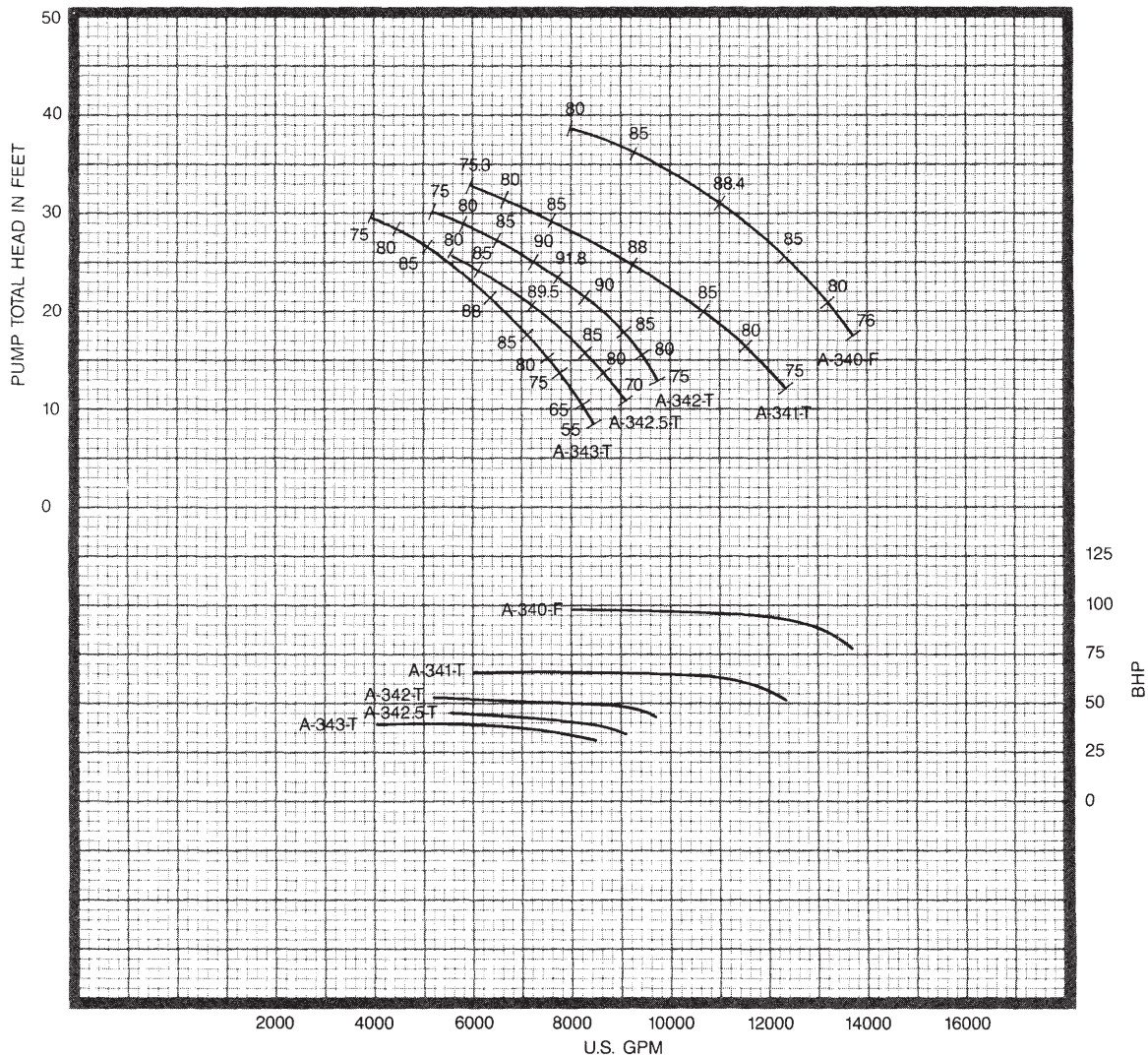
2
STAGE

24"
COLUMN

24"
FABRICATED
STEEL
ELBOW

1-15/16"
LINESHAFT

3"
ENCLOSING
TUBE

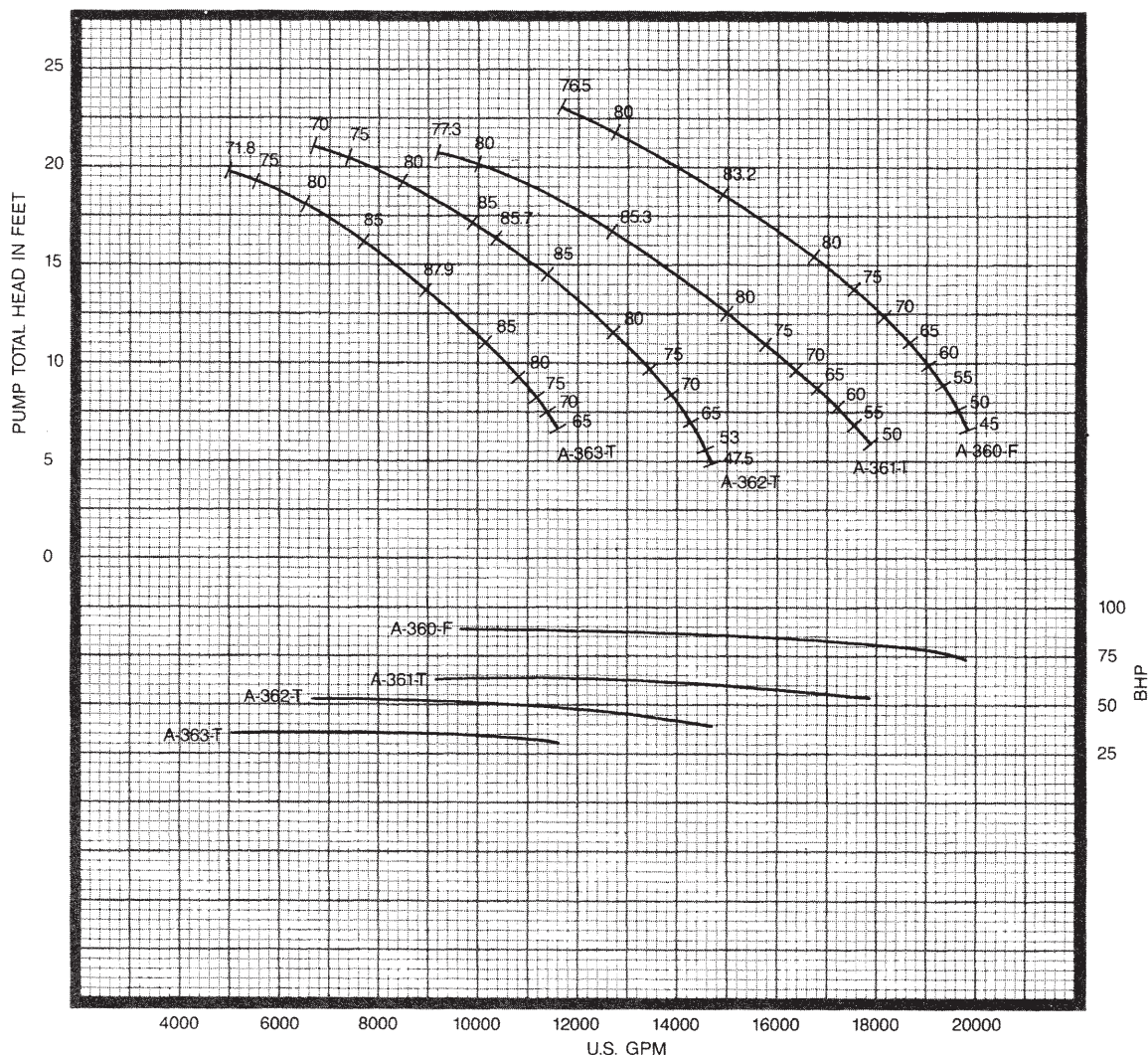


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DATA		VALUE
PUMP SHAFT DIAMETER		1.9375 IN.
MAXIMUM SPHERE SIZE		3.38 IN.
K _t (THRUST FACTOR)		101 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		250 LBS.
K _s (SETTING CONSTANT)		10.0 LBS./FT.
WK ²		86 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		2150 LBS.
EYE AREA: PROPELLER NO. A-340-F		203.0 SQ. IN. 4 VANE
PROPELLER NO. A-341-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-342.5-T		203.0 SQ. IN. 3 VANE
PROPELLER NO. A-343-T		203.0 SQ. IN. 3 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.

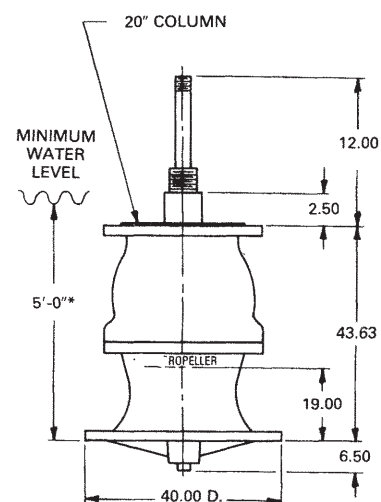
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K _t (THRUST FACTOR)	127 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	175 LBS.
K _s (SETTING CONSTANT)	12.8 LBS./FT.
WK ²	77 LBS.-FT. ²
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.	

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24"
8312

580
RPM

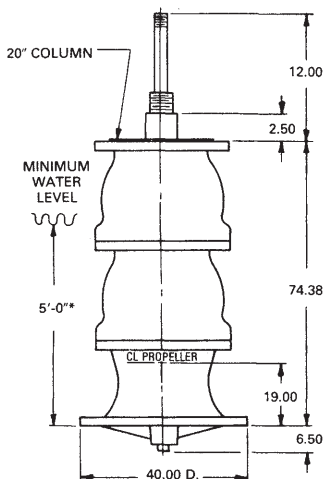
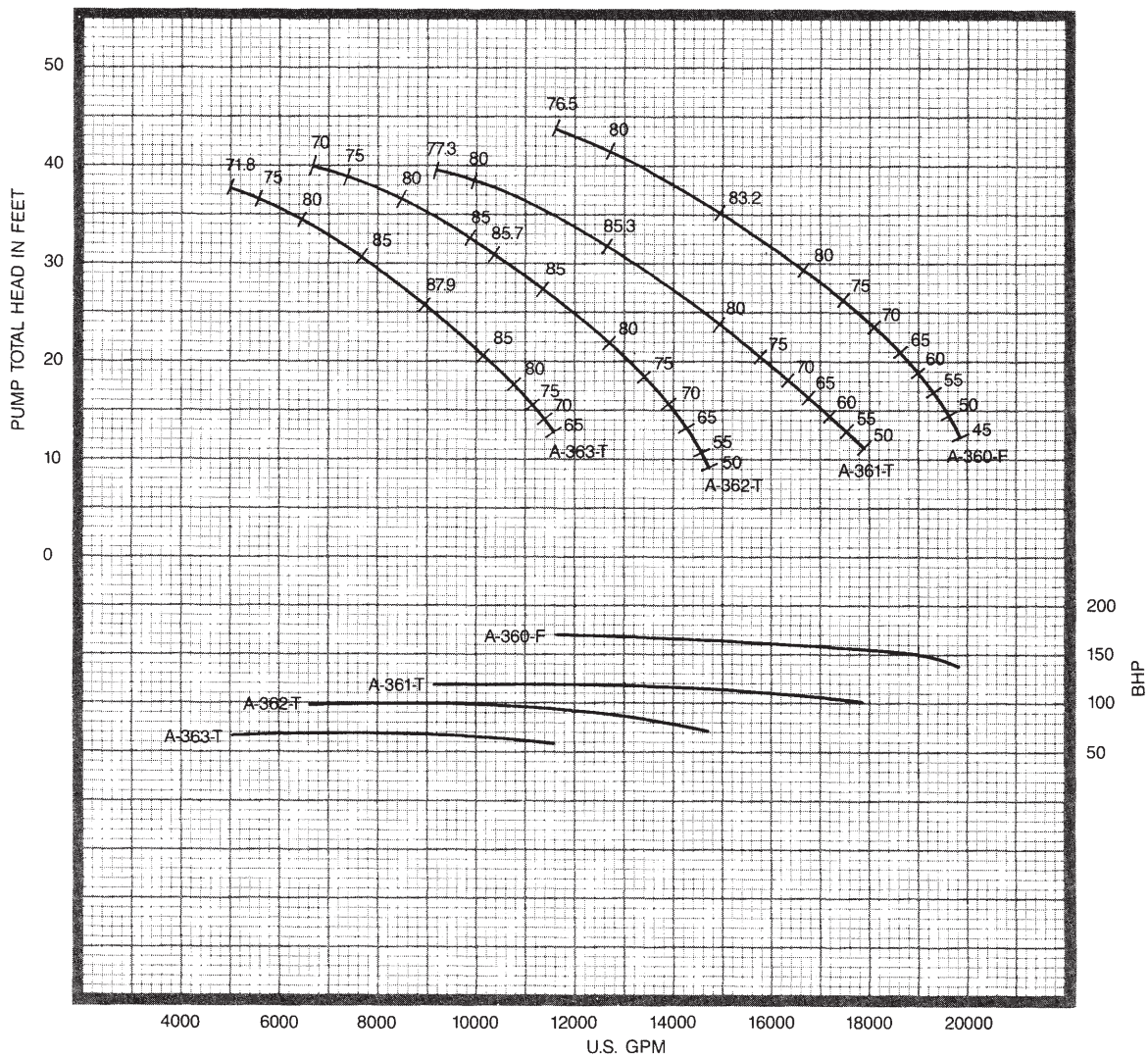
2
STAGE

24"
COLUMN

24"
FABRICATED
STEEL
ELBOW

2-7/16"
LINESHAFT

3-1/2"
ENCLOSING
TUBE

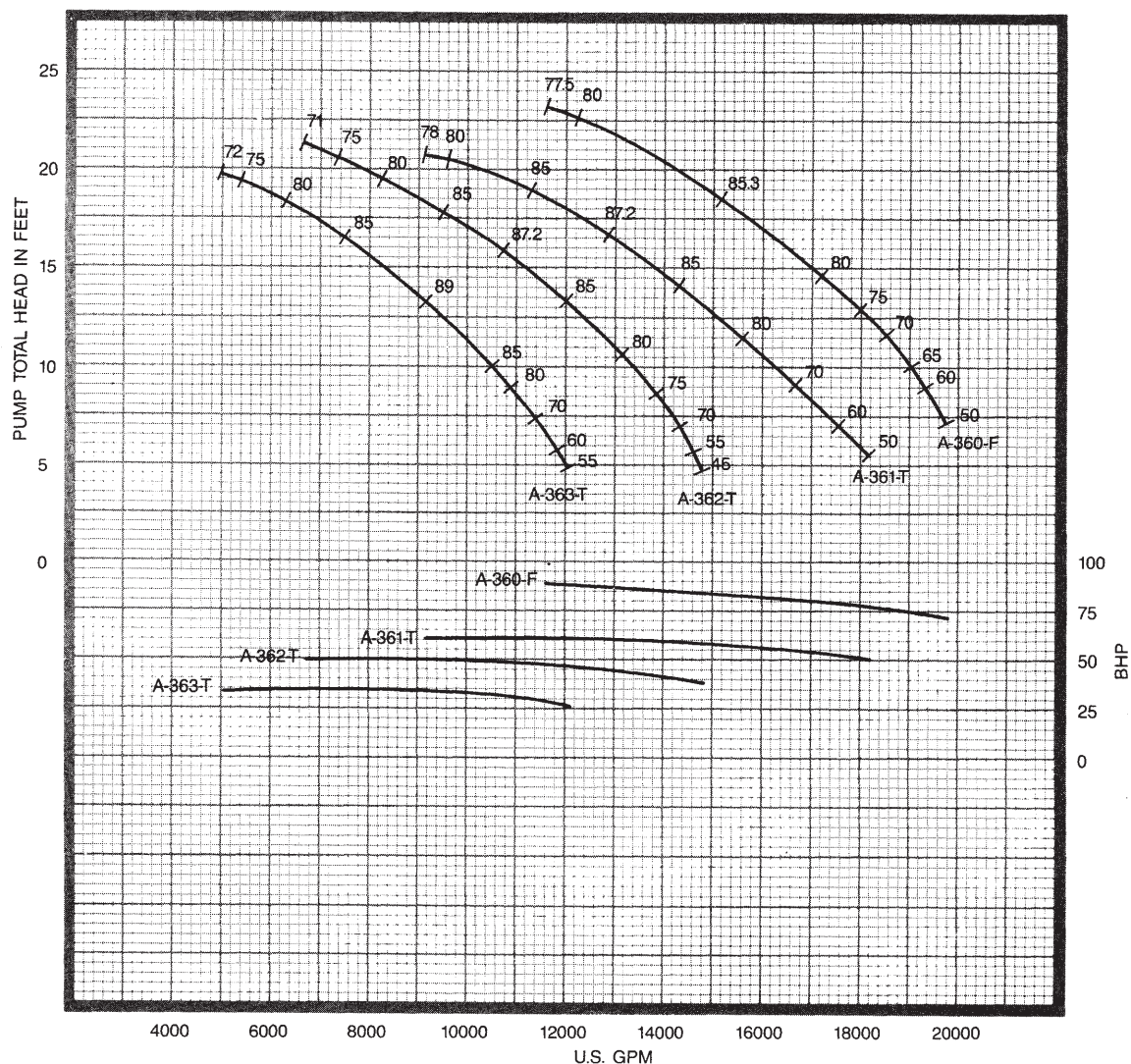


DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K _t (THRUST FACTOR)	127 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	350 LBS.
K _s (SETTING CONSTANT)	15.9 LBS./FT.
WK ²	154 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	2800 LBS.
EYE AREA: PROPELLER NO. A-360-F	256.3 SQ. IN. 4 VANE
PROPELLER NO. A-361-T	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.

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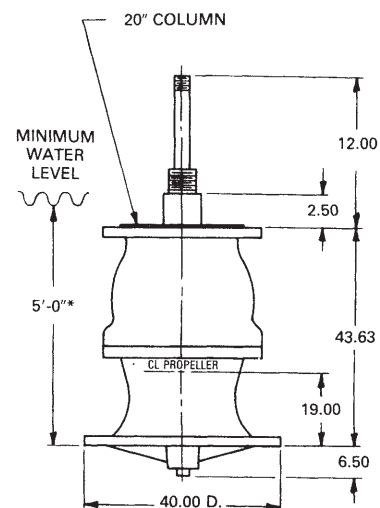
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DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K _t (THRUST FACTOR)	127 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	175 LBS.
K _s (SETTING CONSTANT)	12.8 LBS./FT.
WK ²	77 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	1700 LBS.
EYE AREA: PROPELLER 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.	

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24"
8312

580
RPM

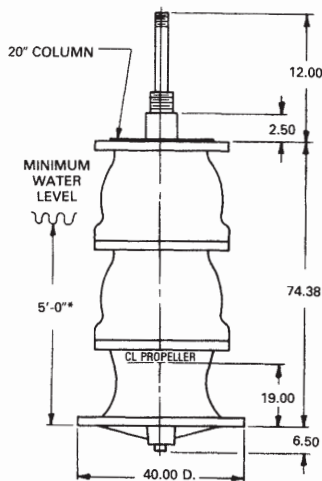
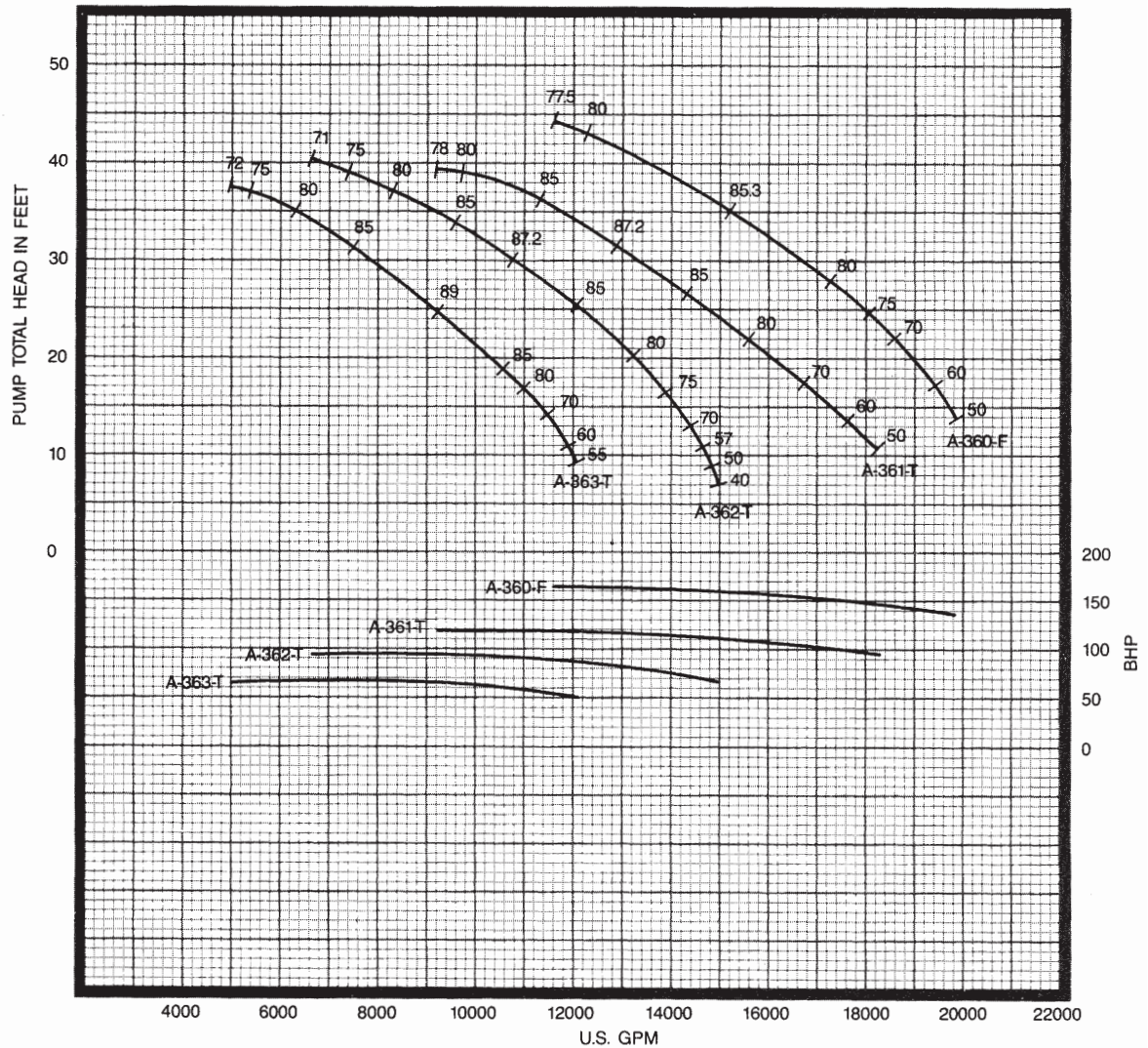
2
STAGE

30"
COLUMN

30"
FABRICATED
STEEL ELBOW

2-7/16"
LINESHAFT

3-1/2"
ENCLOSING
TUBE

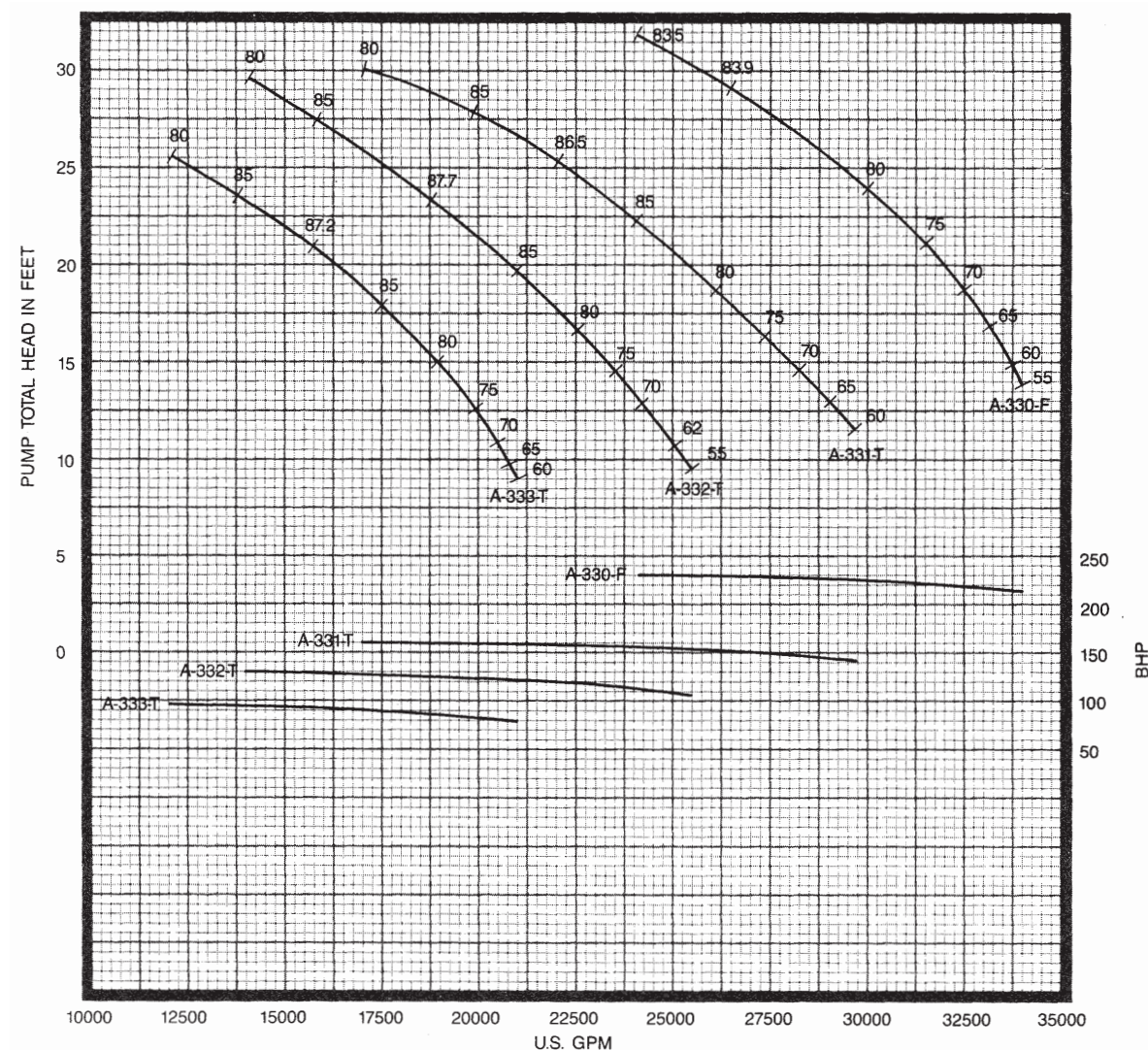


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DATA	VALUE
PUMP SHAFT DIAMETER	2.4375 IN.
MAXIMUM SPHERE SIZE	3.75 IN.
K _t (THRUST FACTOR)	127 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	350 LBS.
K _s (SETTING CONSTANT)	15.9 LBS./FT.
WK ²	154 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	2800 LBS.
EYE AREA: PROPELLER 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.

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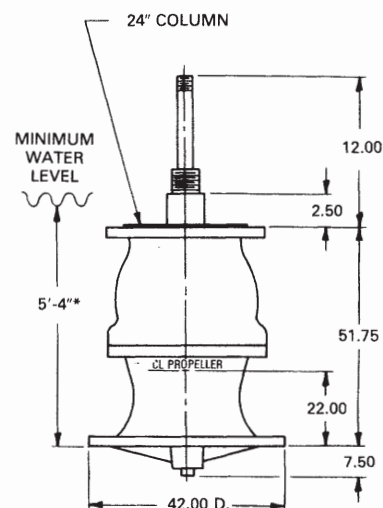
30"
8312
580
RPM
1
STAGE

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

DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 IN.
MAXIMUM SPHERE SIZE	4.50 IN.
K _t (THRUST FACTOR)	185 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	310 LBS.
K _s (SETTING CONSTANT)	15.9 LBS./FT.
WK ²	195 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	2500 LBS.
EYE AREA: PROPELLER NO. A-330-F	367.8 SQ. IN. 4 VANE
PROPELLER NO. A-331-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-332-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-333-T	367.8 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.

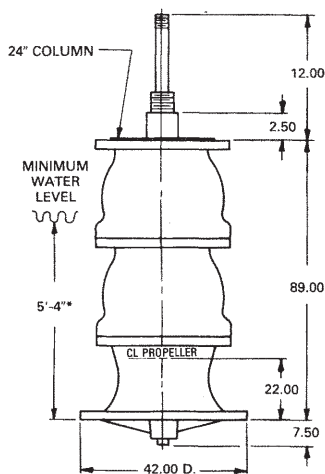
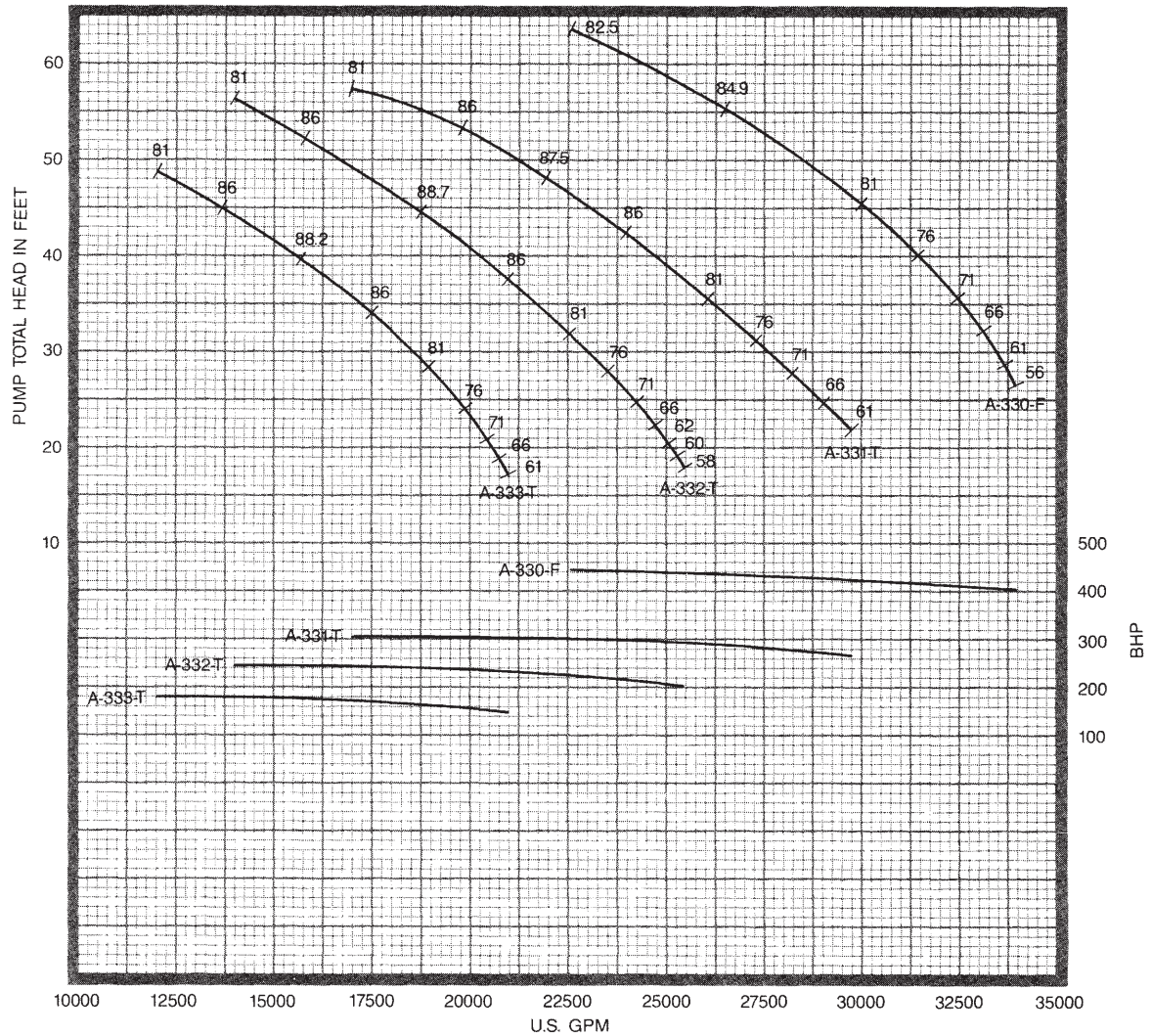
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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30"
8312
580
RPM
2
STAGE

30"
COLUMN
30"
FABRICATED
STEEL ELBOW
2-15/16"
LINESHAFT
5"
ENCLOSING
TUBE

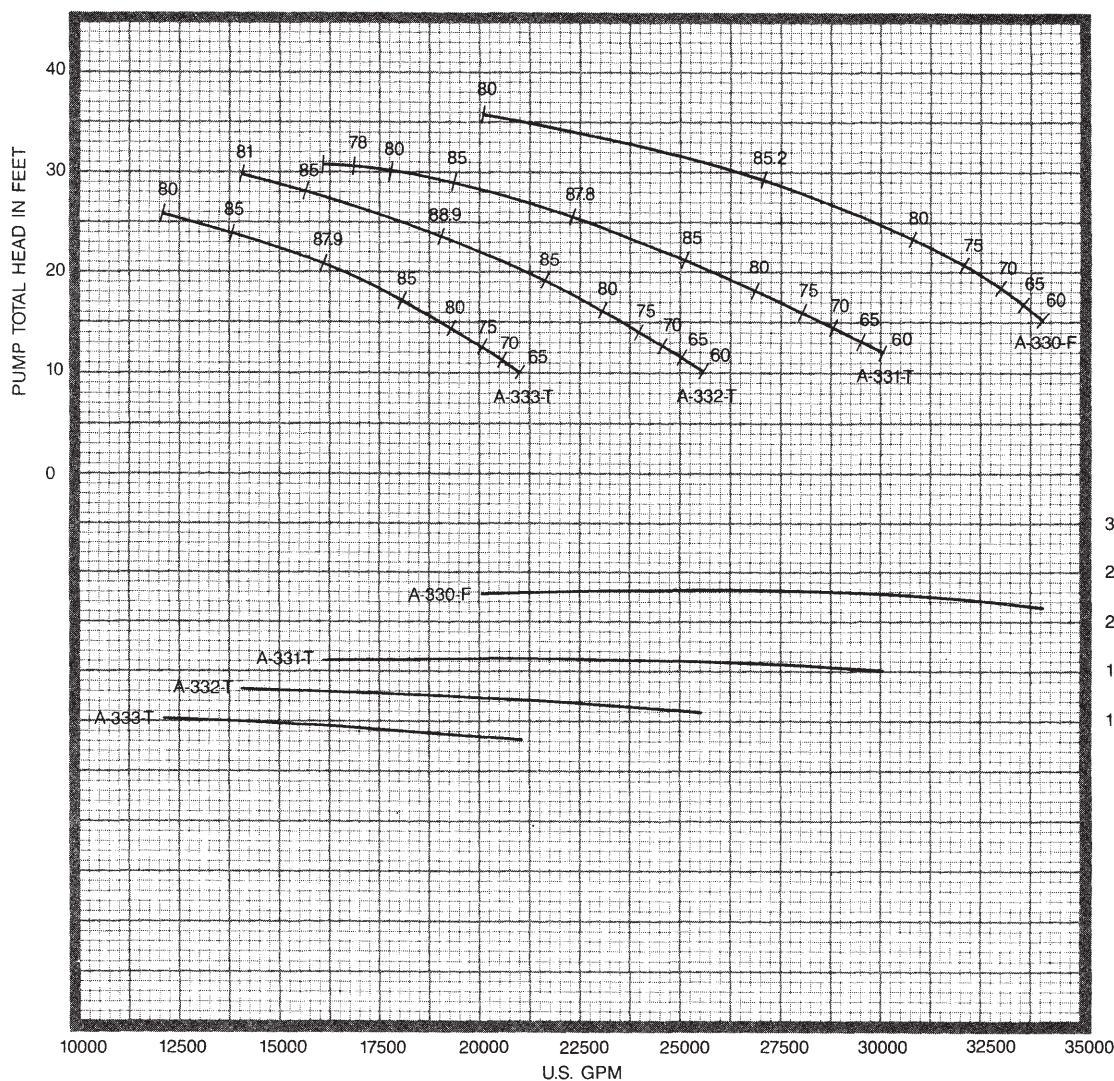


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DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 IN.
MAXIMUM SPHERE SIZE	4.50 IN.
K _t (THRUST FACTOR)	185 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	620 LBS.
K _s (SETTING CONSTANT)	23.0 LBS./FT.
WK ²	390 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	4300 LBS.
EYE AREA: PROPELLER NO. A-330-F	367.8 SQ. IN. 4 VANE
PROPELLER NO. A-331-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-332-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-333-T	367.8 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.

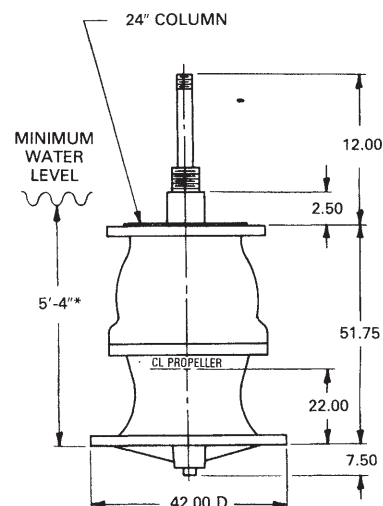
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 IN.
MAXIMUM SPHERE SIZE	4.50 IN.
K _t (THRUST FACTOR)	185 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	310 LBS.
K _s (SETTING CONSTANT)	15.9 LBS./FT.
WK ²	195 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	2500 LBS.
EYE AREA: PROPELLER NO. A-330-F	367.8 SQ. IN. 4 VANE
PROPELLER NO. A-331-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-332-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-333-T	367.8 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.

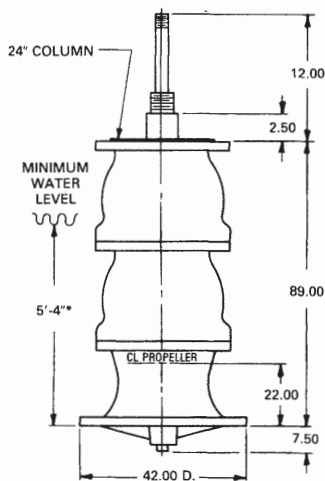
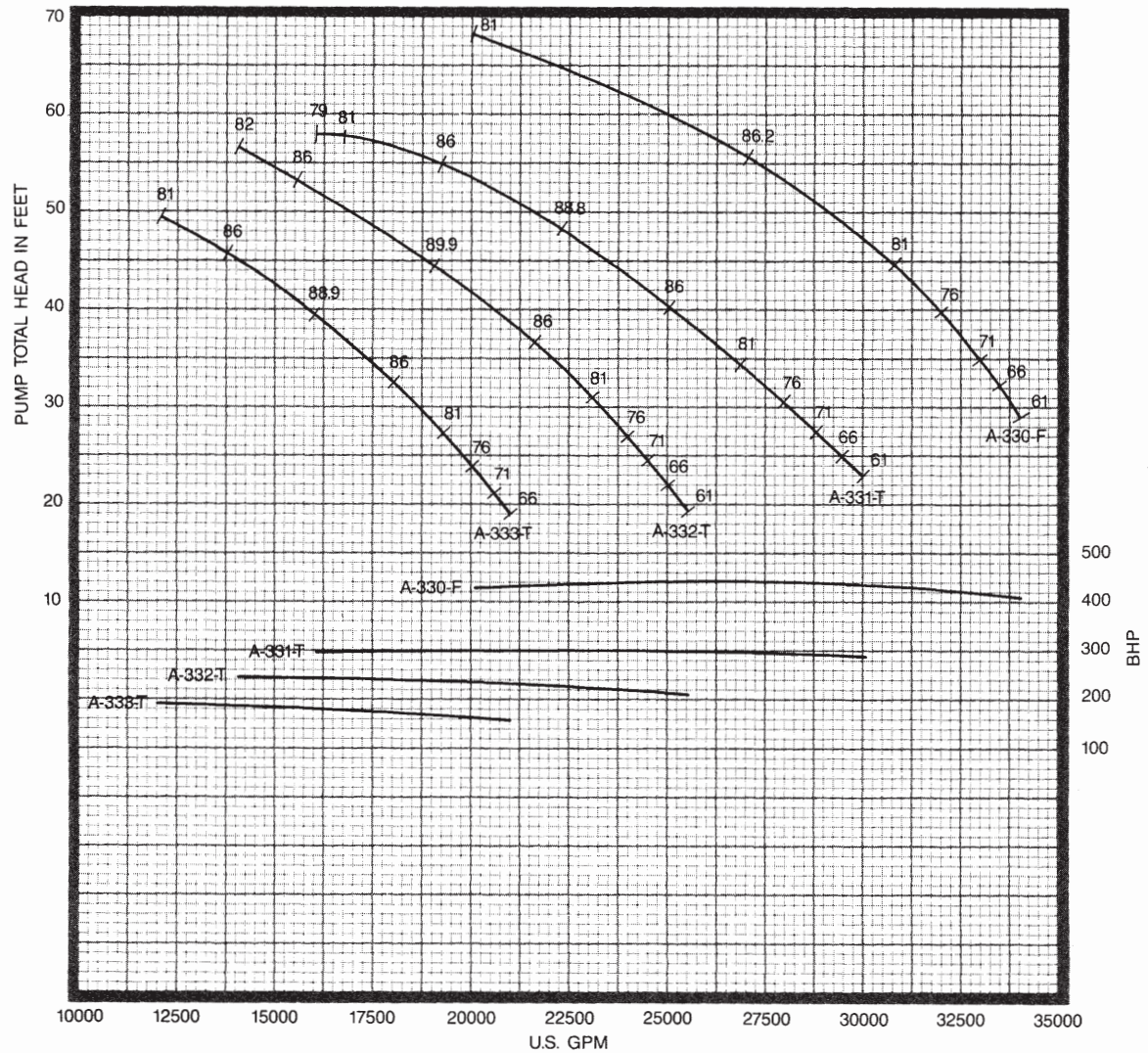
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30"
8312
580
RPM
2
STAGE

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

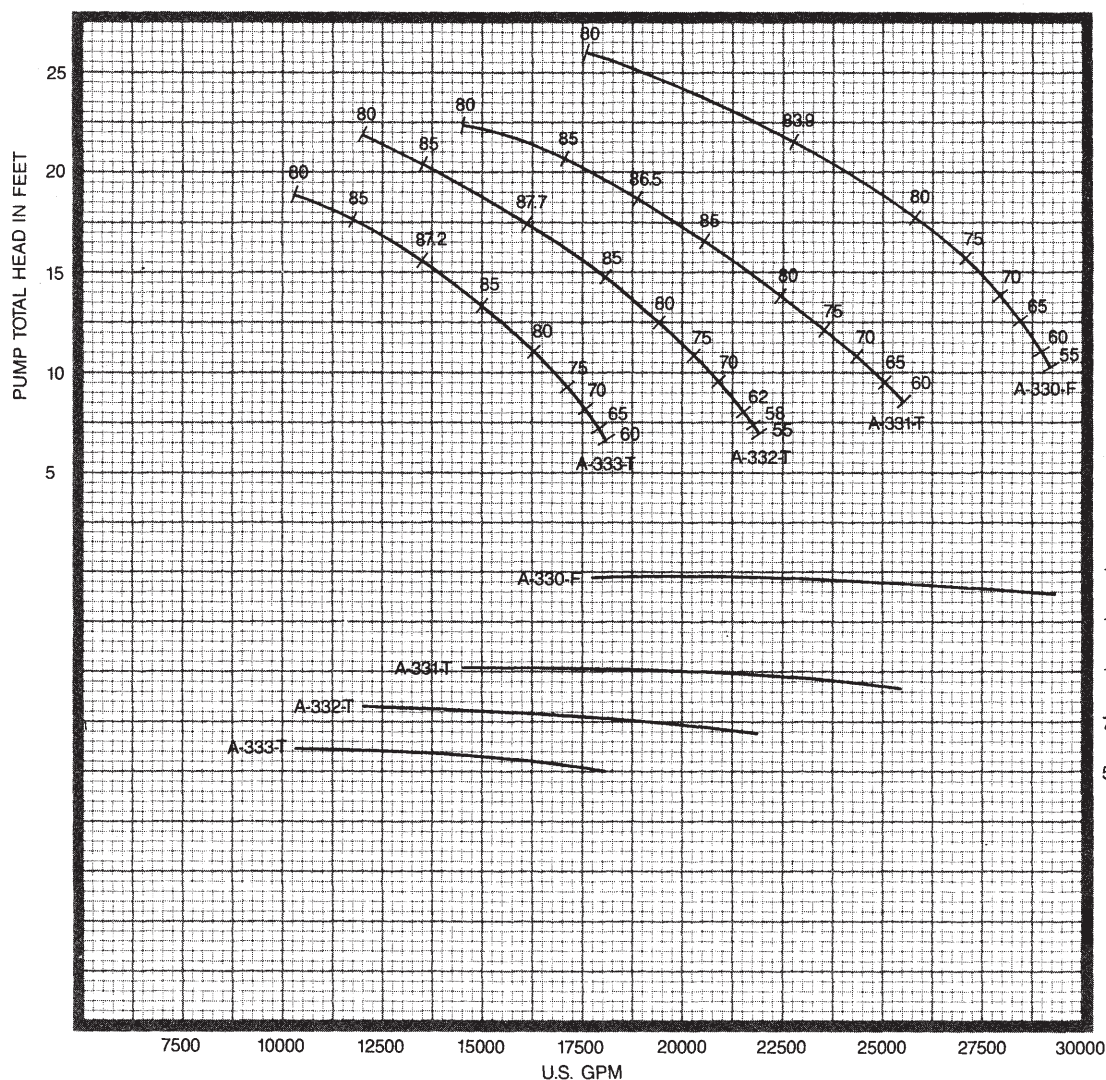


*This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 in.
MAXIMUM SPHERE SIZE	4.50 in.
K _t (THRUST FACTOR)	185 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	620 LBS.
K _s (SETTING CONSTANT)	23.0 LBS./FT.
WK ²	390 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	4300 LBS.
EYE AREA: PROPELLER NO. A-330-F	367.8 SQ. IN. 4 VANE
PROPELLER NO. A-331-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-332-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-333-T	367.8 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.



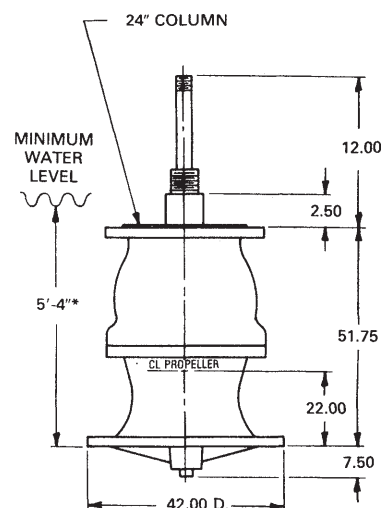
30"
8312
500
RPM
1
STAGE

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

DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 IN.
MAXIMUM SPHERE SIZE	4.50 IN.
K _t (THRUST FACTOR)	185 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	310 LBS.
K _s (SETTING CONSTANT)	15.9 LBS./FT.
WK ²	195 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	2500 LBS.
EYE AREA: PROPELLER NO. A-330-F	367.8 SQ. IN. 4 VANE
PROPELLER NO. A-331-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-332-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-333-T	367.8 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.

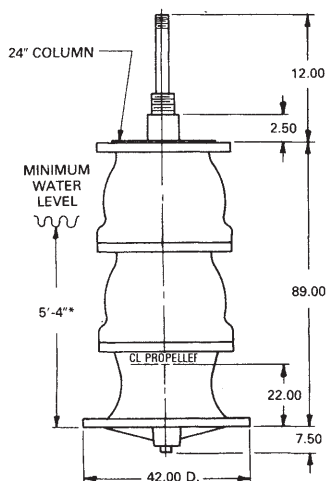
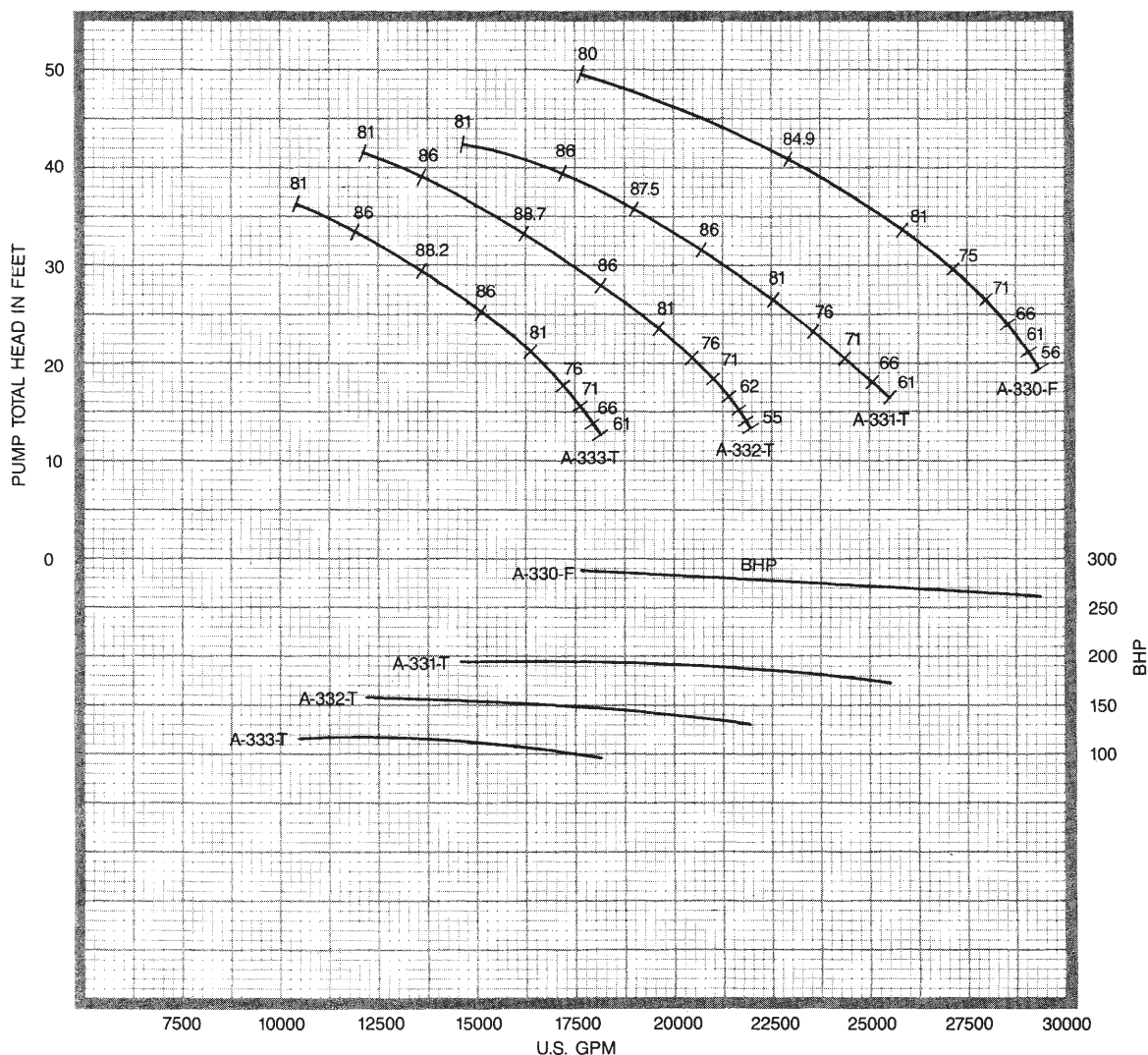
PUMP PERFORMANCE SHOWN IS BOWL ASSEMBLY WITH 10 FEET OF COLUMN INCLUDING A STANDARD ABOVE GROUND DISCHARGE ELBOW. ADDITIONAL COLUMN LOSSES SHOULD BE ADDED WHEN SETTINGS ARE DEEPER THAN 10 FEET AND/OR FOR OTHER DISCHARGE ARRANGEMENTS.



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

30"
8312
500
RPM
2
STAGE

30"
COLUMN
30"
FABRICATED
STEEL ELBOW
2-15/16"
LINESHAFT
5"
ENCLOSING
TUBE



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

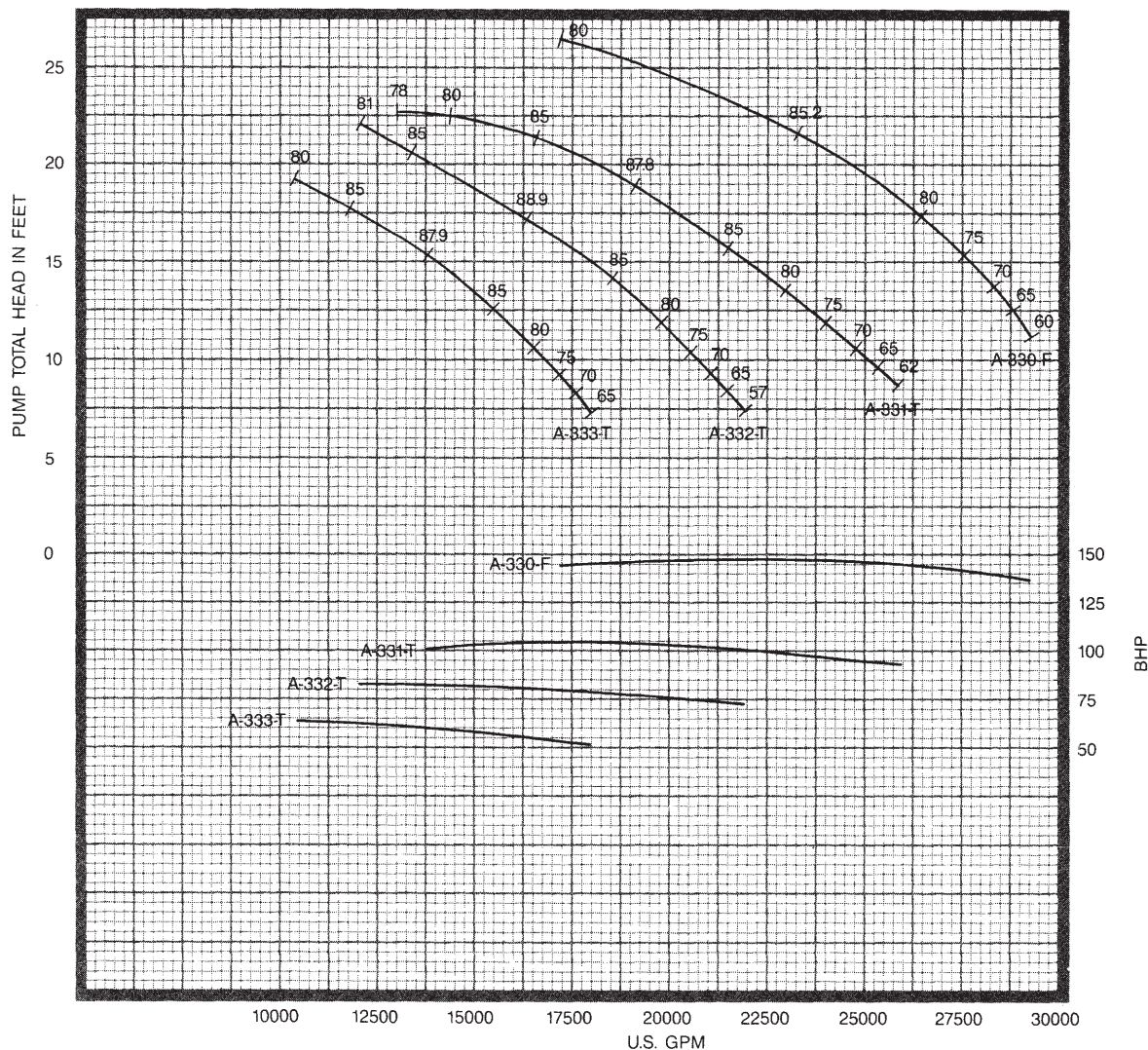
DATA		VALUE
PUMP SHAFT DIAMETER		2.9375 IN.
MAXIMUM SPHERE SIZE		4.50 IN.
K _t (THRUST FACTOR)		185 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)		620 LBS.
K _s (SETTING CONSTANT)		23.0 LBS./FT.
WK ²		390 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT		4300 LBS.
EYE AREA: PROPELLER NO. A-330-F		367.8 SQ. IN. 4 VANE
PROPELLER NO. A-331-T		367.8 SQ. IN. 3 VANE
PROPELLER NO. A-332-T		367.8 SQ. IN. 3 VANE
PROPELLER NO. A-333-T		367.8 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.

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30"
8312
500
RPM
1
STAGE

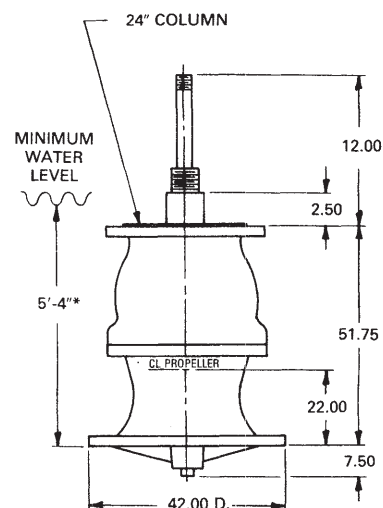
36"
COLUMN
36"
FABRICATED
STEEL ELBOW
2-7/16"
LINESHAFT
3-1/2"
ENCLOSING
TUBE



DATA	VALUE
PUMP SHAFT DIAMETER	2.9375 IN.
MAXIMUM SPHERE SIZE	4.50 IN.
K _t (THRUST FACTOR)	185 LBS./FT.
K _a (TOTAL ROTOR WEIGHT)	310 LBS.
K _s (SETTING CONSTANT)	15.9 LBS./FT.
WK ²	195 LBS.-FT. ²
BOWL ASSEMBLY WEIGHT	2500 LBS.
EYE AREA: PROPELLER NO. A-330-F	367.8 SQ. IN. 4 VANE
PROPELLER NO. A-331-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-332-T	367.8 SQ. IN. 3 VANE
PROPELLER NO. A-333-T	367.8 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.

30"
8312

500
RPM

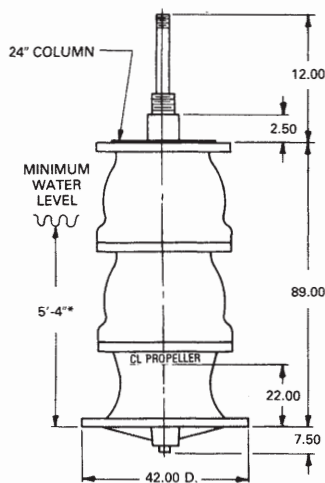
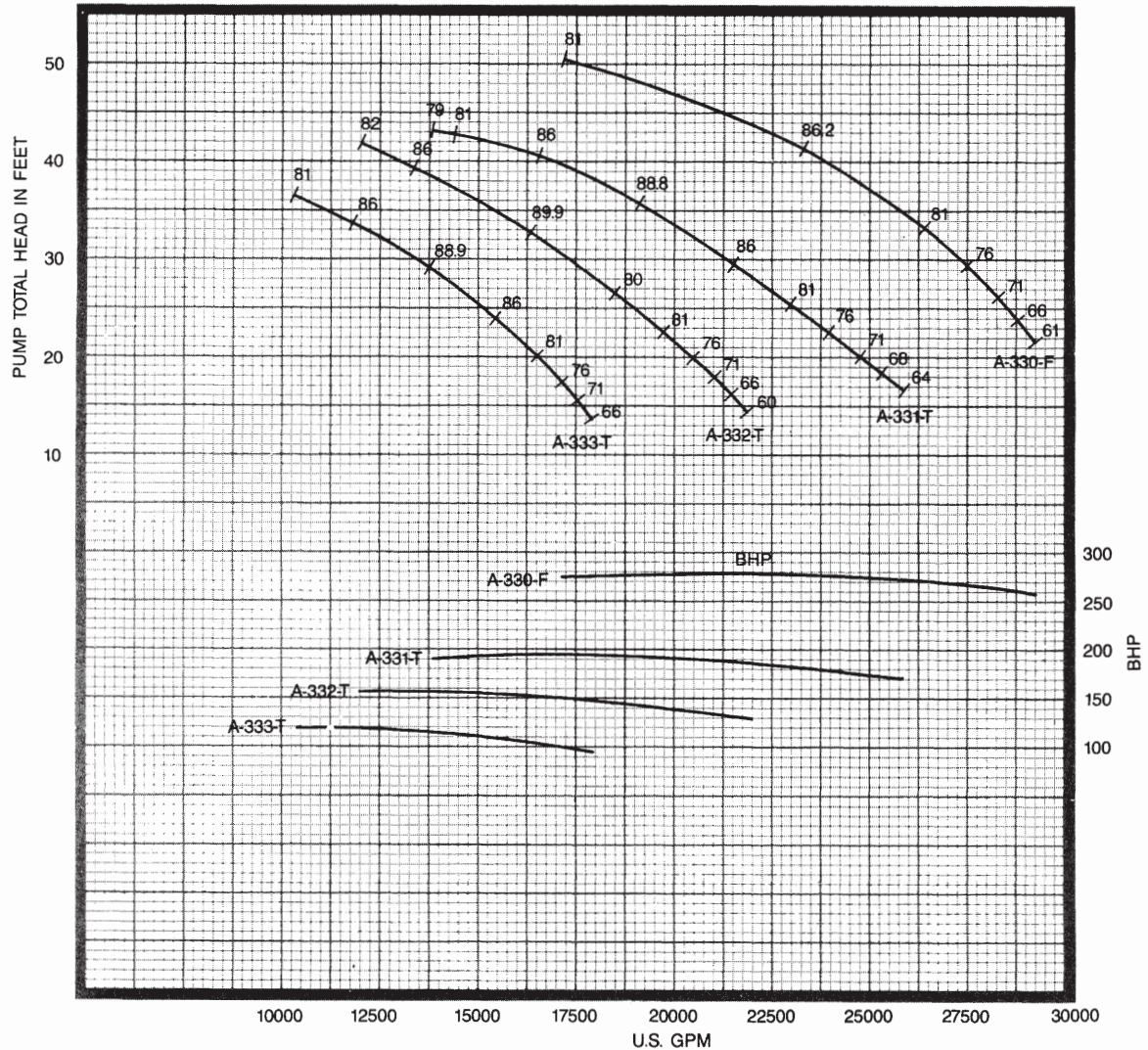
2
STAGE

36"
COLUMN

36"
FABRICATED
STEEL ELBOW

2-15/16"
LINESHAFT

5"
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	2.9375 IN.
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PROPELLER NO. A-333-T	367.8 SQ. IN. 3 VANE
PROPELLER NO.	

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