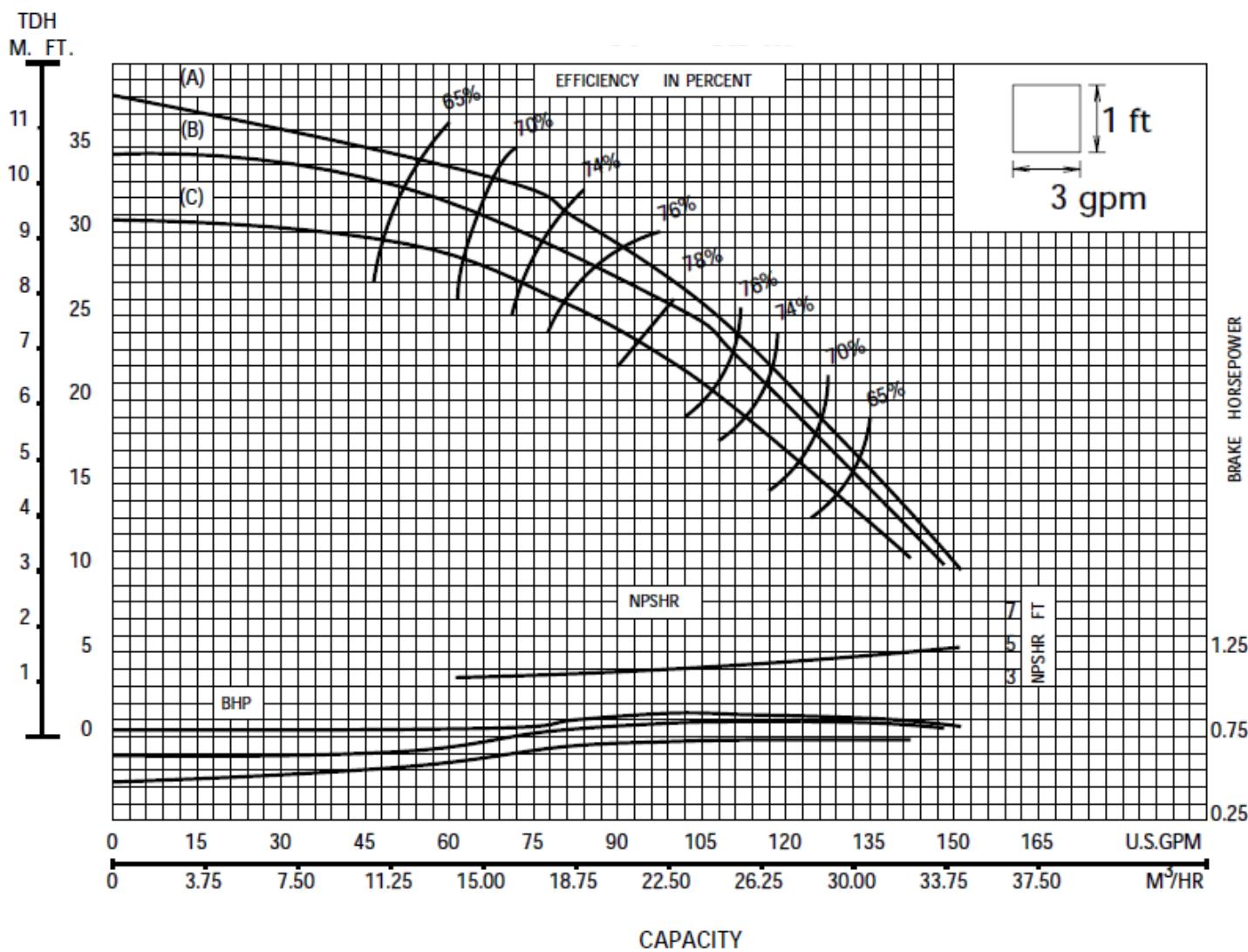


Wilo-Vertical Turbine Pump Curve

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W8JS

1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	3692	TRIM:	(A) 6.313" x 0°
MATERIAL	BRONZE		(B) 6.000" X 0°
TYPE	SEMI-OPEN		(C) 5.625" X 0°
THRUST FACTOR	K=3.52		
EYE AREA	3.18 SQ. IN.		Minimum submergence above eye of bottom impeller: 14 IN.
WEIGHT	3.55 LB.		

BOWL DATA	
BOWL NUMBER	3629 C.I./ENAM.
BOWL MAX. DIAMETER	7.813 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	42
ONE STAGE WEIGHT	130 LB.
ADD STAGE WEIGHT	30 LB.
STD. SHAFT DIA.	1.000 IN.
STD. LATERAL	0.438 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION SIZE	5 - 6 IN.
MAX. SPHERE SIZE	0.250 IN
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	
CHANGE AS FOLLOWS:	-3	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

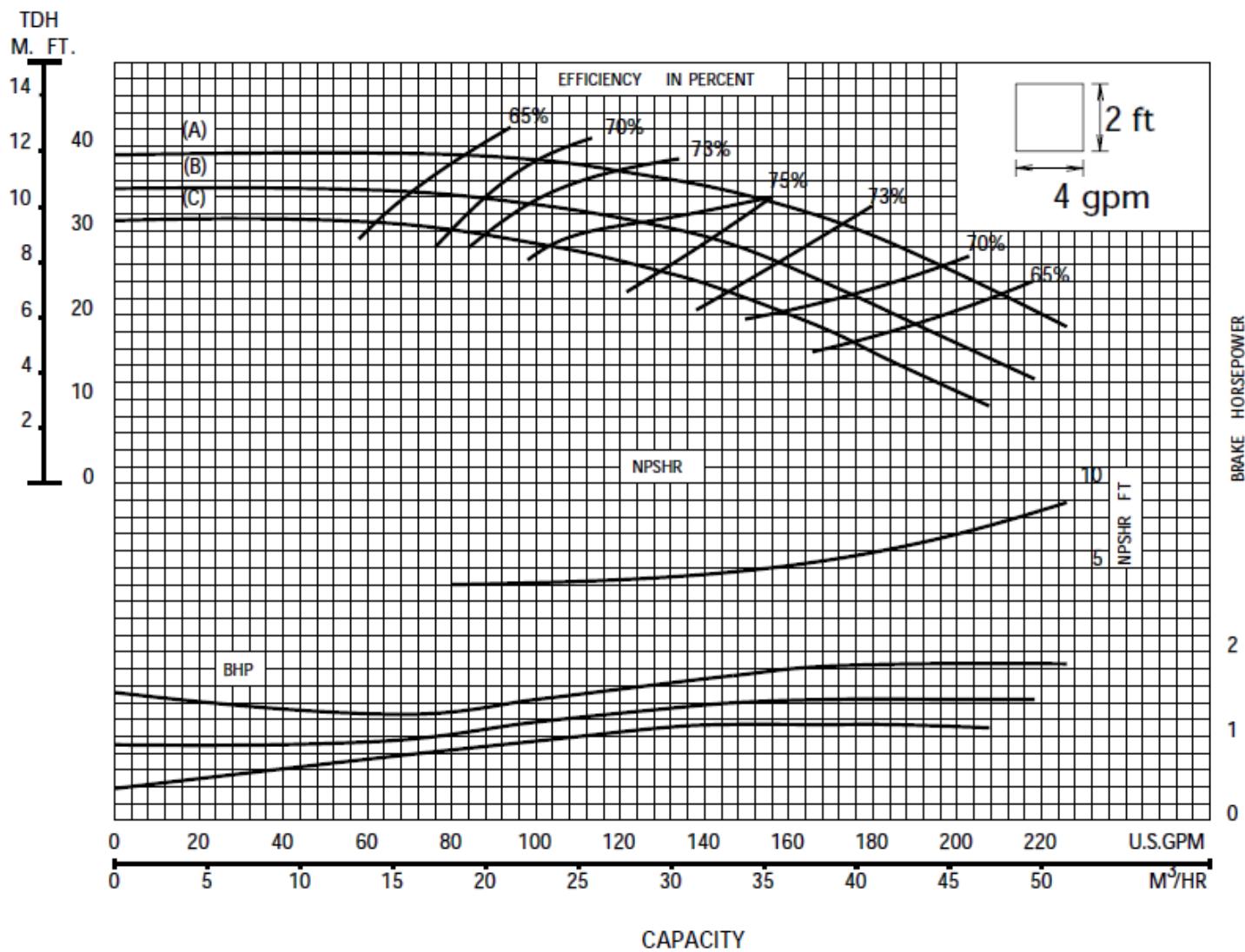
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3641	TRIM:	(A) 6.313" x 0°
MATERIAL	BRONZE		(B) 6.000" X 0°
TYPE	SEMI-OPEN		(C) 5.625" X 0°
THRUST FACTOR	K=3.34		
EYE AREA	4.64 SQ. IN.		Minimum submergence above eye of bottom impeller: 14 IN.
WEIGHT	4.25 LB.		

BOWL DATA	
BOWL NUMBER	3629 C.I./ENAM.
BOWL MAX. DIAMETER	7.813 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	37
ONE STAGE WEIGHT	130 LB.
ADD STAGE WEIGHT	30 LB.
STD. SHAFT DIA.	1.000 IN.
STD. LATERAL	0.438 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION SIZE	5 - 6 IN.
MAX. SPHERE SIZE	0.250 IN
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	
CHANGE AS FOLLOWS:	-4	-2	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

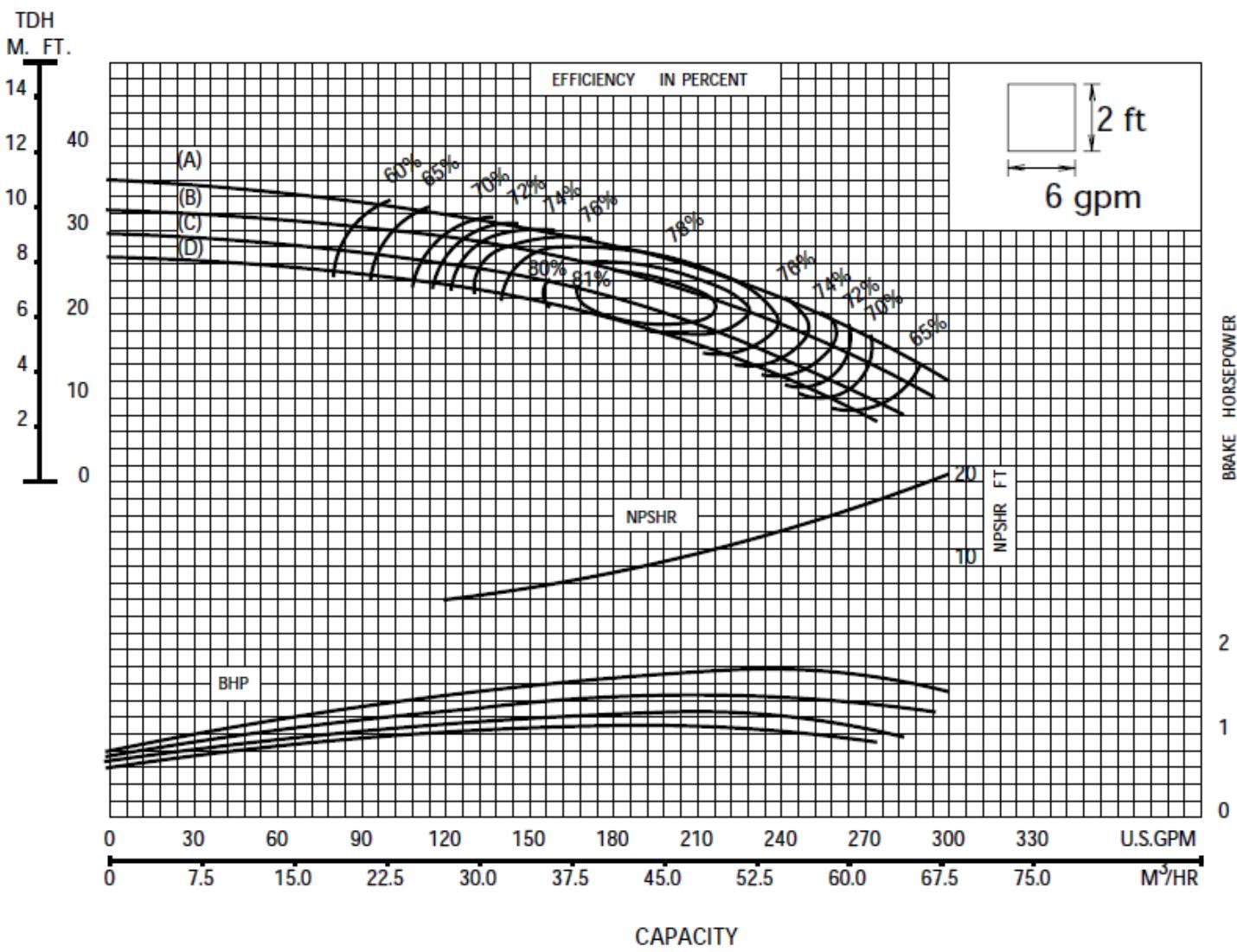
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3693	TRIM:	(A) 6.313" x 0°
MATERIAL	BRONZE		(B) 6.000" X 0°
TYPE	SEMI-OPEN		(C) 5.625" X 0°
THRUST FACTOR	K=4.42		
EYE AREA	5.72 SQ. IN.		Minimum submergence above eye of bottom impeller: 14 IN.
WEIGHT	3.75 LB.		

BOWL DATA	
BOWL NUMBER	3591-S C.I./ENAM.
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	37
ONE STAGE WEIGHT	130 LB.
ADD STAGE WEIGHT	30 LB.
STD. SHAFT DIA.	1.000 IN.
STD. LATERAL	0.438 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION SIZE	5 - 6 IN.
MAX. SPHERE SIZE	0.375 IN
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	
CHANGE AS FOLLOWS:	-3	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

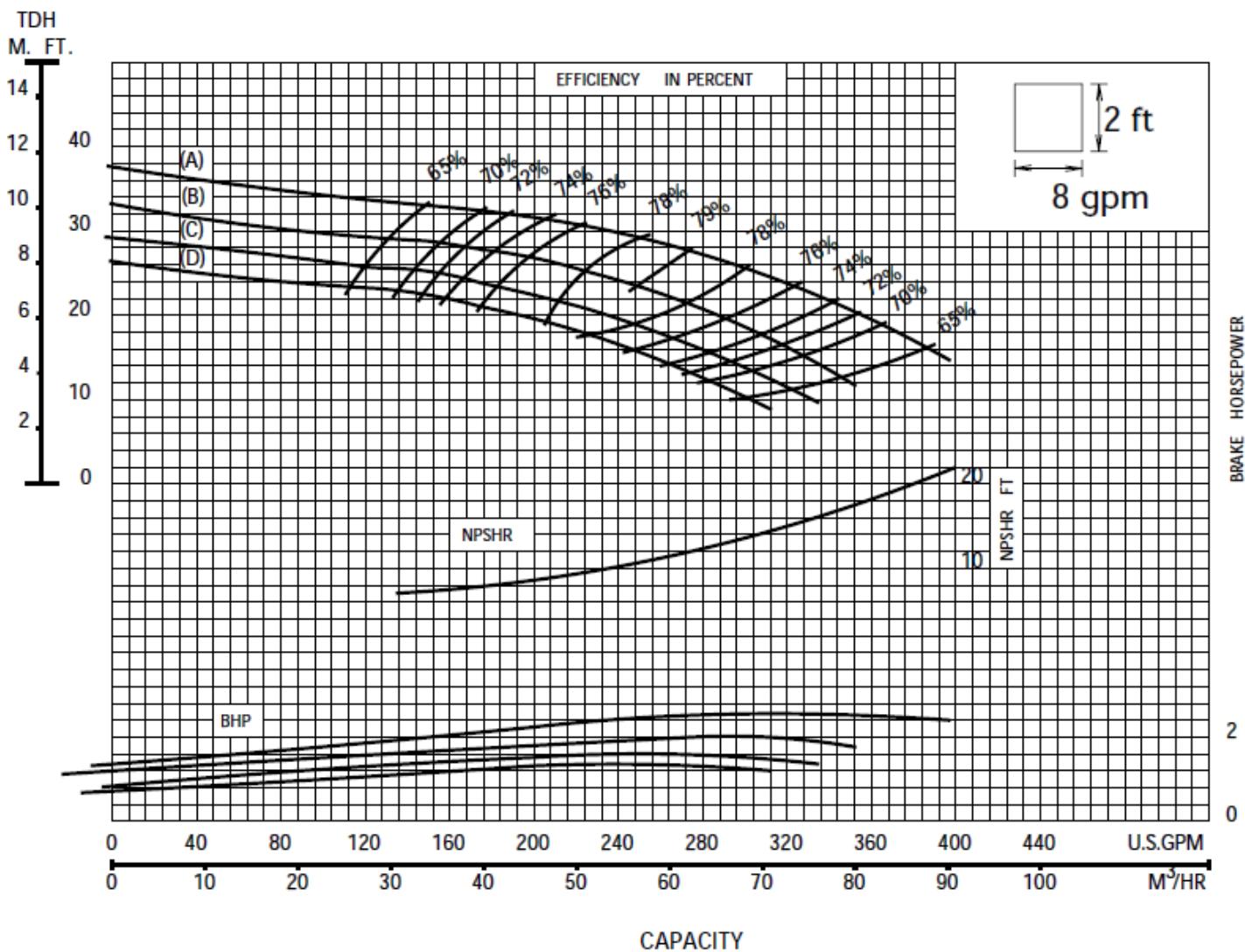
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3590	TRIM:	(A) 6.313" X 27.5°
MATERIAL	BRONZE		(B) 6.000" X 27.5°
TYPE	SEMI-OPEN		(C) 5.750" X 27.5°
THRUST FACTOR	K=4.280		(D) 5.500" X 27.5°
EYE AREA	6.600 SQ. IN.		Minimum submergence above eye of bottom impeller: 14 IN.
WEIGHT	4.125 LB.		

BOWL DATA	
BOWL NUMBER	3591-S C.I./ENAM.
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	23
ONE STAGE WEIGHT	130 LB.
ADD STAGE WEIGHT	30 LB.
STD. SHAFT DIA.	1.000 IN.
STD. LATERAL	0.438 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION SIZE	5 - 6 IN.
MAX. SPHERE SIZE	0.375 IN
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	5
CHANGE AS FOLLOWS:	-4	-3	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

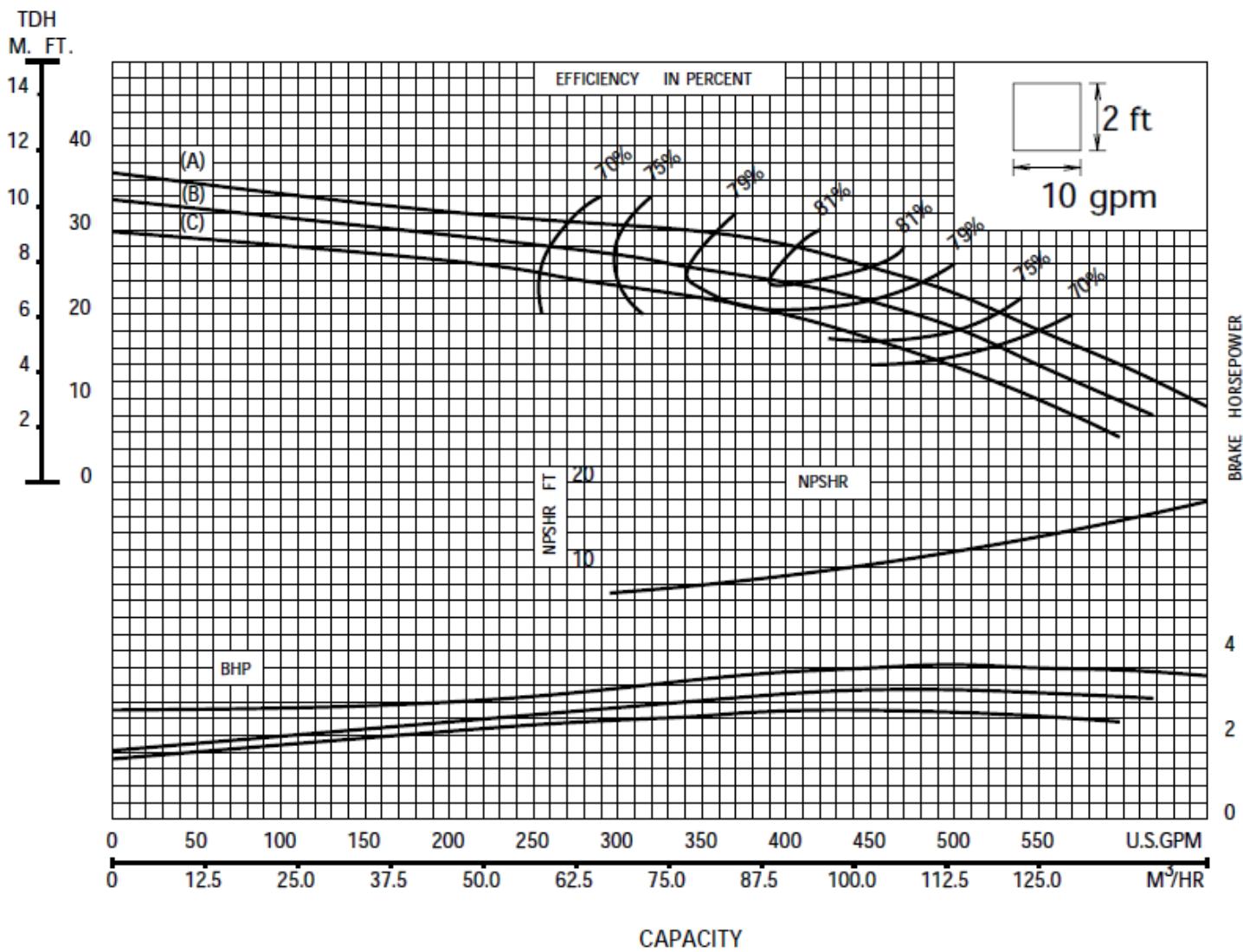
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	2981	TRIM:	(A) 6.313" X 29.5°
MATERIAL	BRONZE		(B) 6.000" X 29.5°
TYPE	SEMI-OPEN		(C) 5.750" X 29.5°
THRUST FACTOR	K=5.40		
EYE AREA	8.48 SQ. IN.		Minimum submergence above eye of bottom impeller: 14 IN.
WEIGHT	3.25 LB.		

BOWL DATA	
BOWL NUMBER	2883 C.I./ENAM.
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	18
ONE STAGE WEIGHT	1.000 LB.
ADD STAGE WEIGHT	30 LB.
STD. SHAFT DIA.	1.000 IN.
STD. LATERAL	0.375 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION SIZE	5 - 6 IN.
MAX. SPHERE SIZE	0.625 IN
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-3	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

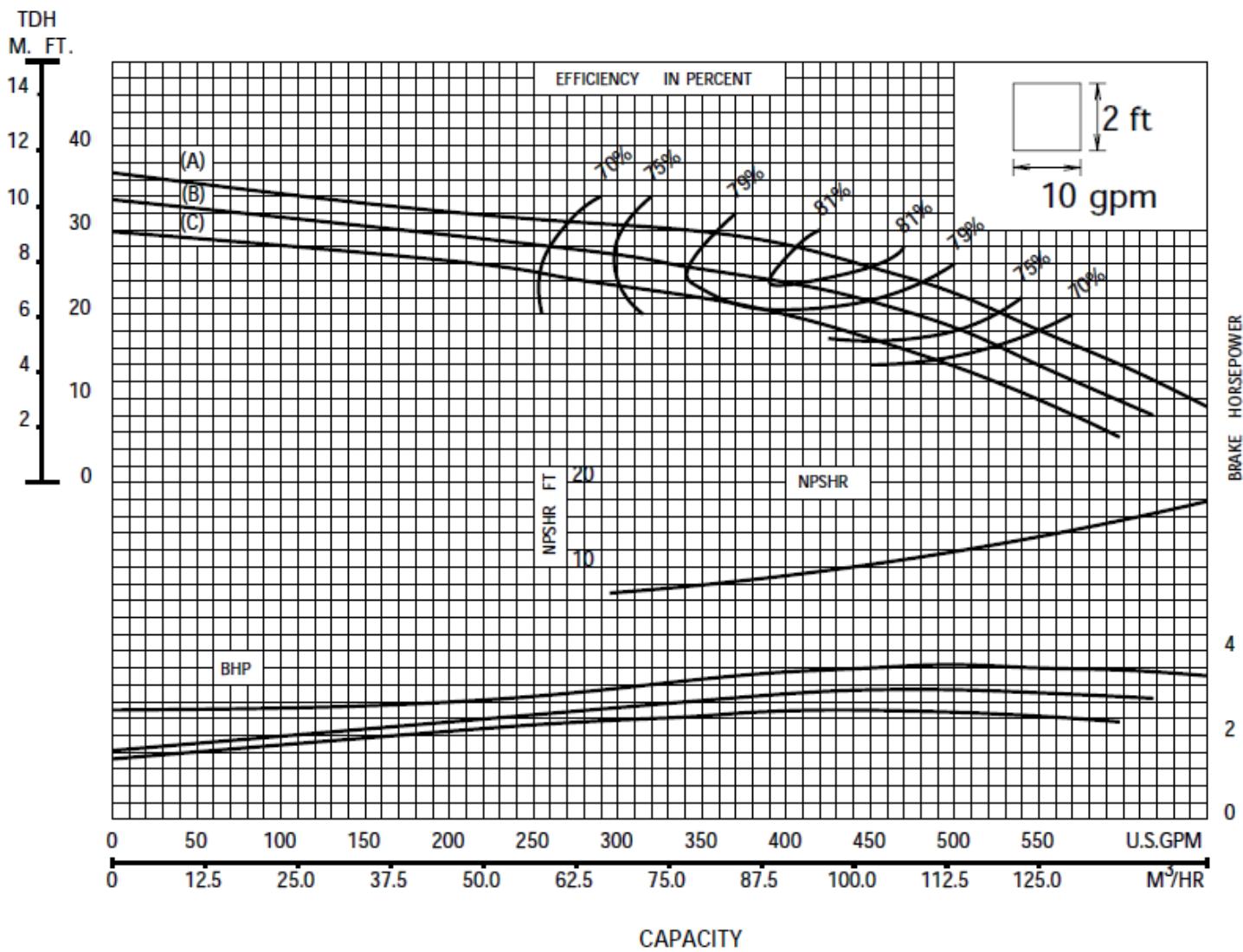
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	5506	TRIM:	(A) 6.344" X 37°
MATERIAL	BRONZE		(B) 6.063" X 37°
TYPE	SEMI-OPEN		(C) 5.750" X 37°
THRUST FACTOR	K=8.00		
EYE AREA	15.90 SQ. IN.		Minimum submergence above eye of bottom impeller: 20 IN.
WEIGHT	5.00 LB.		

BOWL DATA	
BOWL NUMBER	2883 C.I./ENAM.
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	18
ONE STAGE WEIGHT	1.000 LB.
ADD STAGE WEIGHT	30 LB.
STD. SHAFT DIA.	1.000 IN.
STD. LATERAL	0.375 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION SIZE	5 - 6 IN.
MAX. SPHERE SIZE	0.625 IN
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-3	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

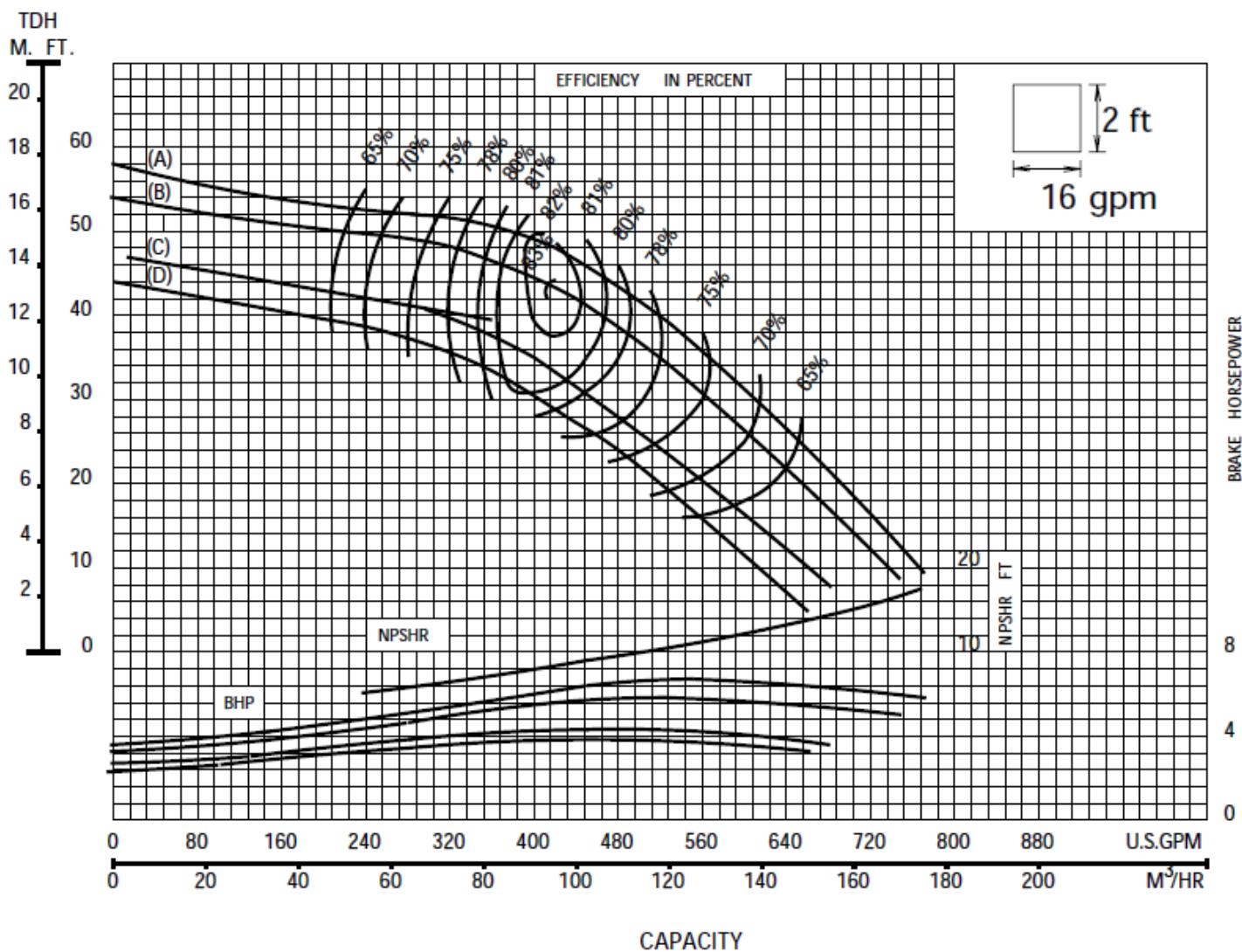
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3103	TRIM:	(A) 7.688" X 20°
MATERIAL	BRONZE		(B) 7.500" X 20°
TYPE	SEMI-OPEN		(C) 7.125" X 20°
THRUST FACTOR	K=7.50		(D) 6.875" X 20°
EYE AREA	11.74 SQ. IN.		Minimum submergence above eye of bottom impeller: 22 IN.
WEIGHT	6.25 LB.		

BOWL DATA	
BOWL NUMBER	3098-S C.I./ENAM.
BOWL MAX. DIAMETER	9.500 IN.
BOWL MIN. DIAMETER	9.250 IN.
MAX. NO. STAGES	34
ONE STAGE WEIGHT	230 LB.
ADD STAGE WEIGHT	55 LB.
STD. SHAFT DIA.	1.500 IN.
STD. LATERAL	0.625 IN.
DISCHARGE SIZE	6 - 8 IN.
SUCTION SIZE	6 - 8 IN.
MAX. SPHERE SIZE	0.500 IN
MAX. OPERATIONAL P.S.I.	595 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-4	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

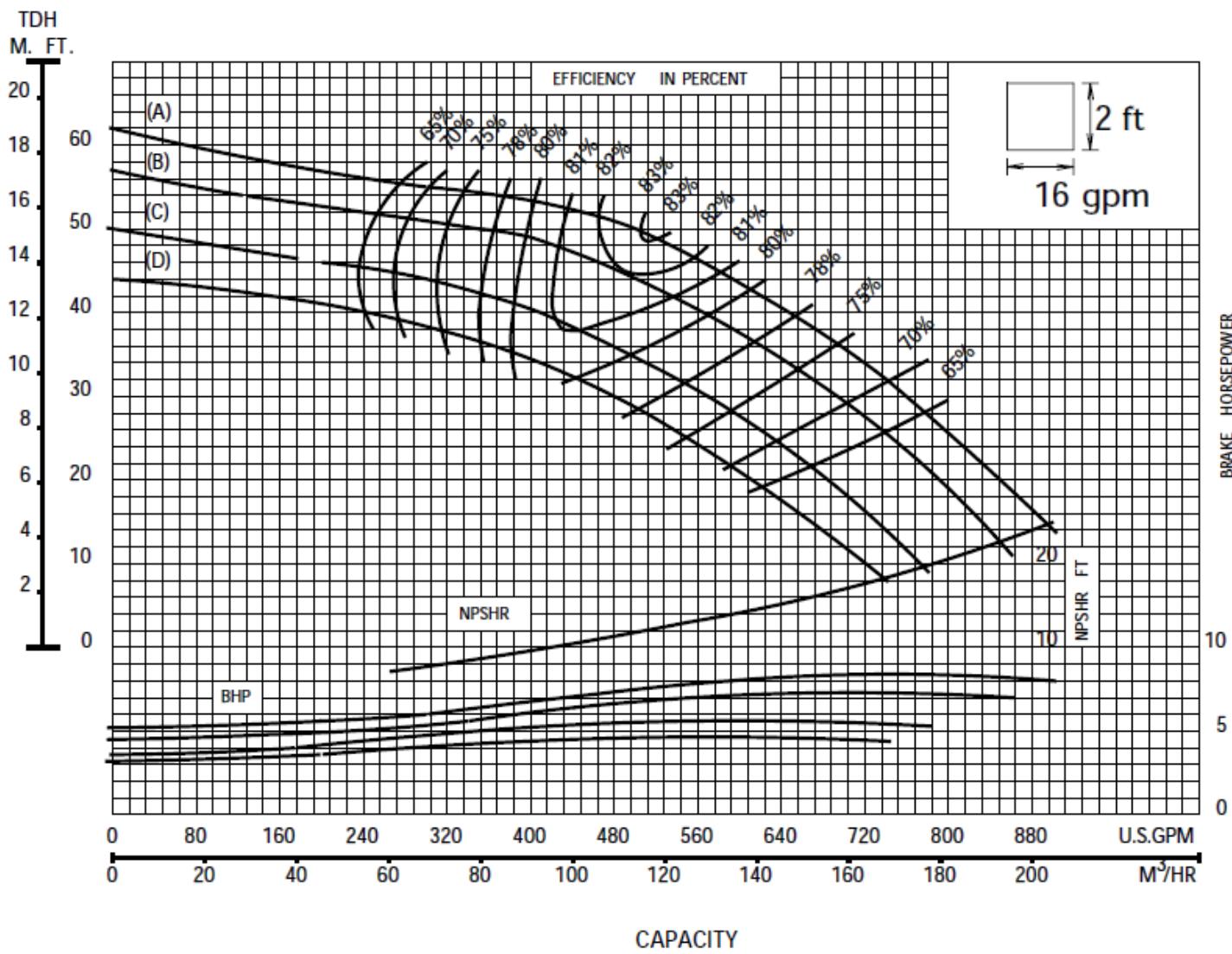
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3099	TRIM:	(A) 7.688" X 26°
MATERIAL	BRONZE		(B) 7.500" X 26°
TYPE	SEMI-OPEN		(C) 7.125" X 26°
THRUST FACTOR	K=7.50		(D) 6.875" X 26°
EYE AREA	11.74 SQ. IN.	Minimum submergence above eye of bottom impeller: 24 IN.	
WEIGHT	5.75 LB.		

BOWL DATA	
BOWL NUMBER	3098-S C.I./ENAM.
BOWL MAX. DIAMETER	9.500 IN.
BOWL MIN. DIAMETER	9.250 IN.
MAX. NO. STAGES	30
ONE STAGE WEIGHT	230 LB.
ADD STAGE WEIGHT	55 LB.
STD. SHAFT DIA.	1.500 IN.
STD. LATERAL	0.625 IN.
DISCHARGE SIZE	6 - 8 IN.
SUCTION SIZE	6 - 8 IN.
MAX. SPHERE SIZE	0.625 IN
MAX. OPERATIONAL P.S.I.	595 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-4	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

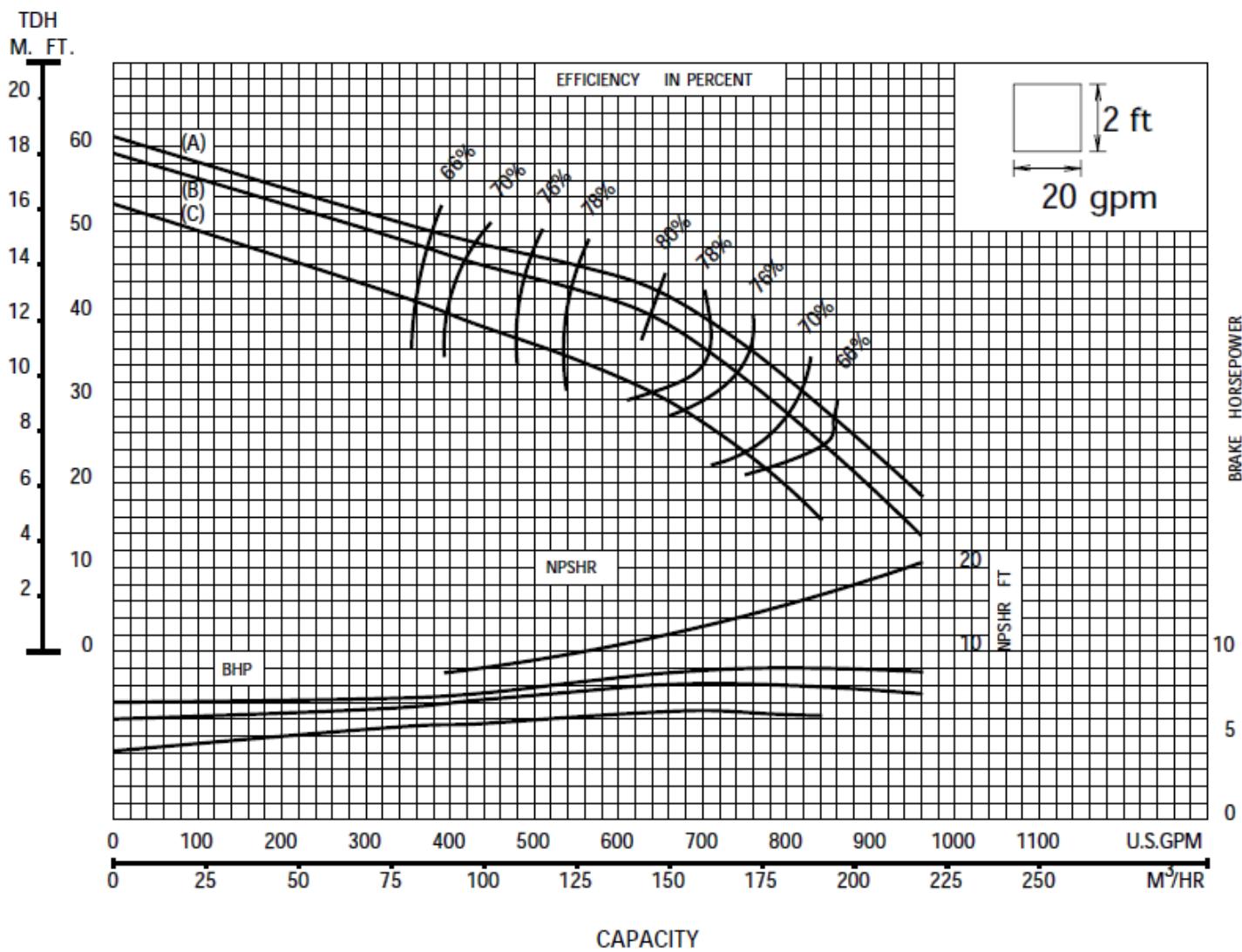
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	2969	TRIM:	(A) 7.688" X 27°
MATERIAL	BRONZE		(B) 7.500" X 27°
TYPE	SEMI-OPEN		(C) 7.125" X 27°
THRUST FACTOR	K=9.20		
EYE AREA	14.90 SQ. IN.		Minimum submergence above eye of bottom impeller: 27 IN.
WEIGHT	5.25 LB.		

BOWL DATA	
BOWL NUMBER	2968-S C.I./ENAM.
BOWL MAX. DIAMETER	9.500 IN.
BOWL MIN. DIAMETER	9.250 IN.
MAX. NO. STAGES	28
ONE STAGE WEIGHT	230 LB.
ADD STAGE WEIGHT	55 LB.
STD. SHAFT DIA.	1.500 IN.
STD. LATERAL	0.625 IN.
DISCHARGE SIZE	6 - 8 IN.
SUCTION SIZE	6 - 8 IN.
MAX. SPHERE SIZE	0.500 IN
MAX. OPERATIONAL P.S.I.	595 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-4	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

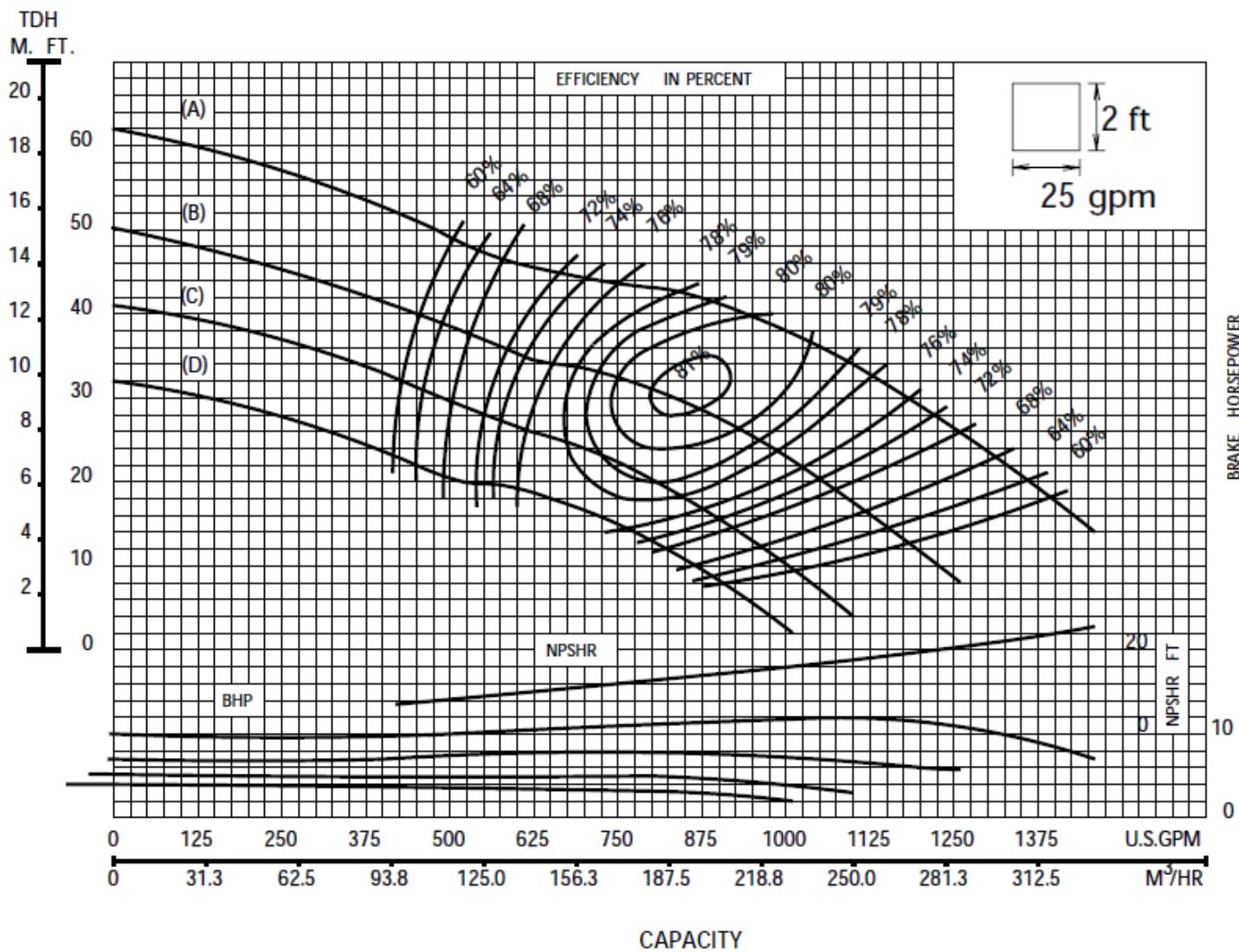
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3542	TRIM:	(A) 8.250" X 33.25°
MATERIAL	BRONZE		(B) 7.500" X 33.25°
TYPE	SEMI-OPEN		(C) 7.250" X 33.25°
THRUST FACTOR	K=11.40		(D) 7.125" X 33.25°
EYE AREA	19.40 SQ. IN.	Minimum submergence above eye of bottom impeller: 28 IN.	
WEIGHT	7.25 LB.		

BOWL DATA	
BOWL NUMBER	3541-S C.I./ENAM.
BOWL MAX. DIAMETER	9.875 IN.
BOWL MIN. DIAMETER	9.500 IN.
MAX. NO. STAGES	28
ONE STAGE WEIGHT	250 LB.
ADD STAGE WEIGHT	60 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.750 IN.
DISCHARGE SIZE	6 - 8 IN.
SUCTION SIZE	6 - 8 IN.
MAX. SPHERE SIZE	0.875 IN.
MAX. OPERATIONAL P.S.I.	455 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-4	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

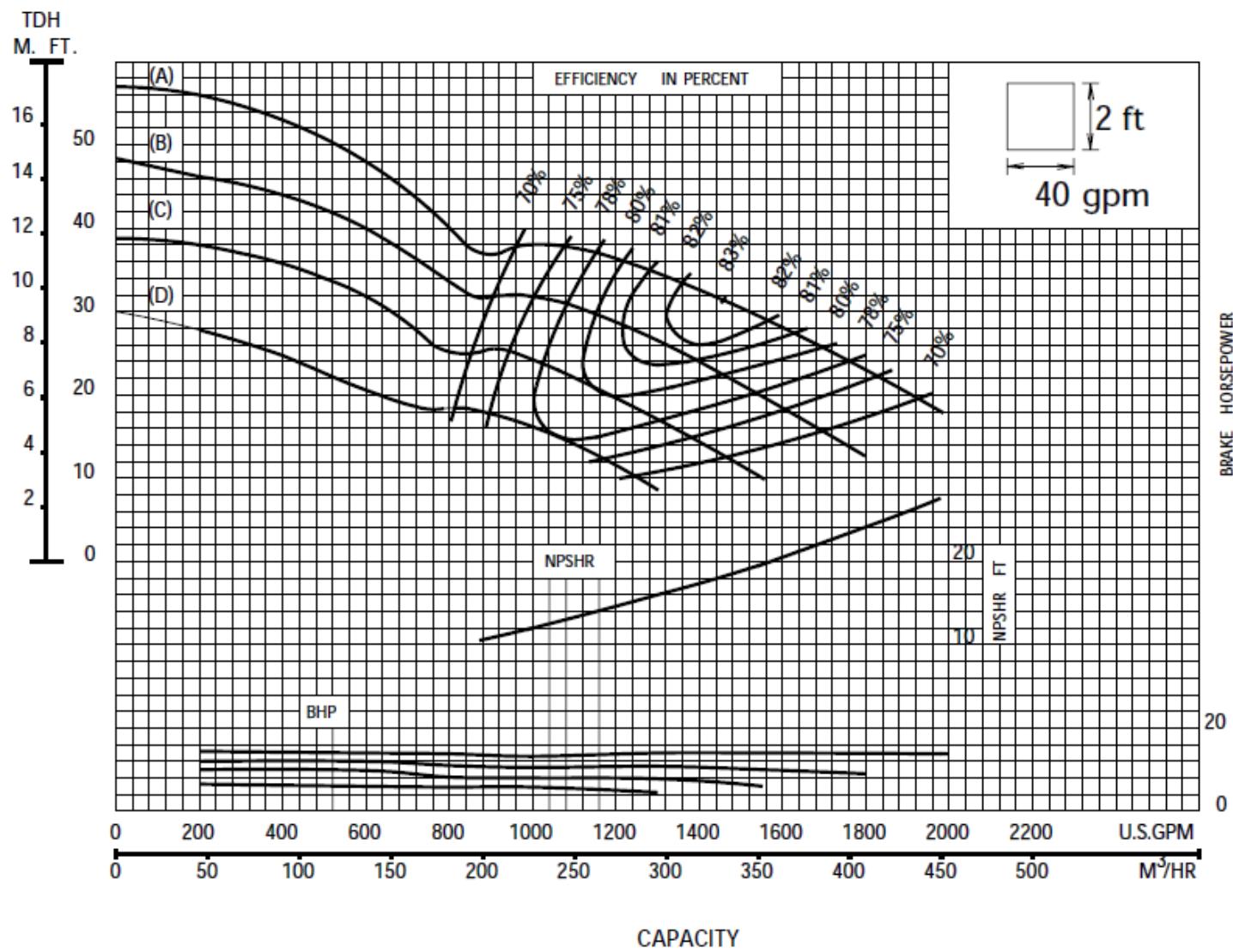
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IMPELLER DATA			
IMPELLER NUMBER	3863	TRIM:	(A) 8.250" X 42°
MATERIAL	BRONZE		(B) 7.875" X 42°
TYPE	SEMI-OPEN		(C) 7.500" X 42°
THRUST FACTOR	K=13.50		(D) 7.125" X 42°
EYE AREA	26.70 SQ. IN.	Minimum submergence above eye of bottom impeller: 30 IN.	
WEIGHT	5.75 LB.		

BOWL DATA	
BOWL NUMBER	3864-S C.I./ENAM.
BOWL MAX. DIAMETER	9.875 IN.
BOWL MIN. DIAMETER	9.500 IN.
MAX. NO. STAGES	26
ONE STAGE WEIGHT	250 LB.
ADD STAGE WEIGHT	60 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.500 IN.
DISCHARGE SIZE	6 - 8 IN.
SUCTION SIZE	6 - 8 IN.
MAX. SPHERE SIZE	1.438 IN
MAX. OPERATIONAL P.S.I.	455 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-4	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

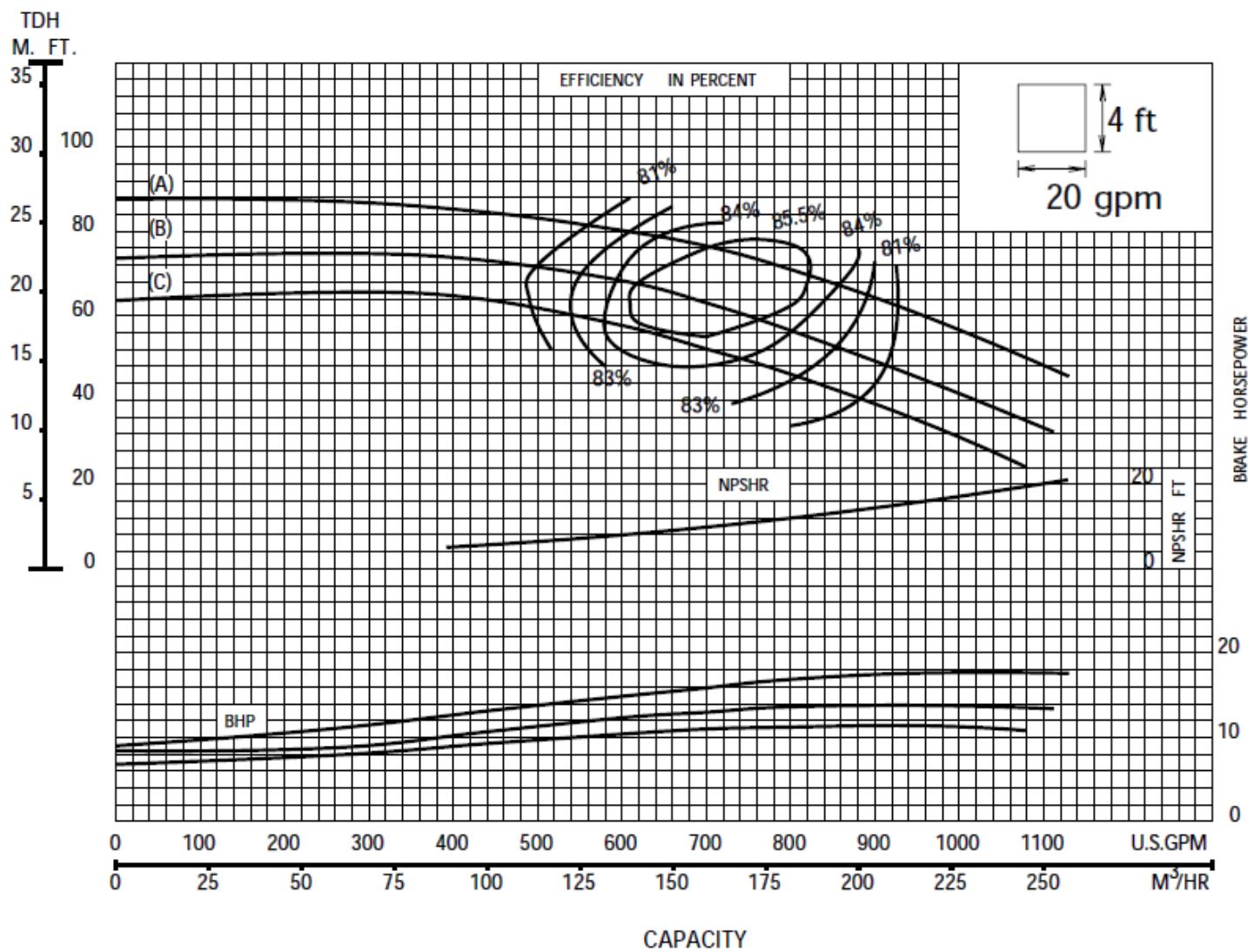
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	2997	TRIM:	(A) 9.313" X 23°
MATERIAL	BRONZE		(B) 8.750" X 23°
TYPE	SEMI-OPEN		(C) 8.250" X 23°
THRUST FACTOR	K=8.2		
EYE AREA	18.14 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	9.5 LB.		

BOWL DATA	
BOWL NUMBER	2994-S C.I./ENAM.
BOWL MAX. DIAMETER	12.000 IN.
BOWL MIN. DIAMETER	11.500 IN.
MAX. NO. STAGES	19
ONE STAGE WEIGHT	340 LB.
ADD STAGE WEIGHT	100 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.625 IN.
DISCHARGE SIZE	6 - 8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	0.625 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-4	-3	-2	-1	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

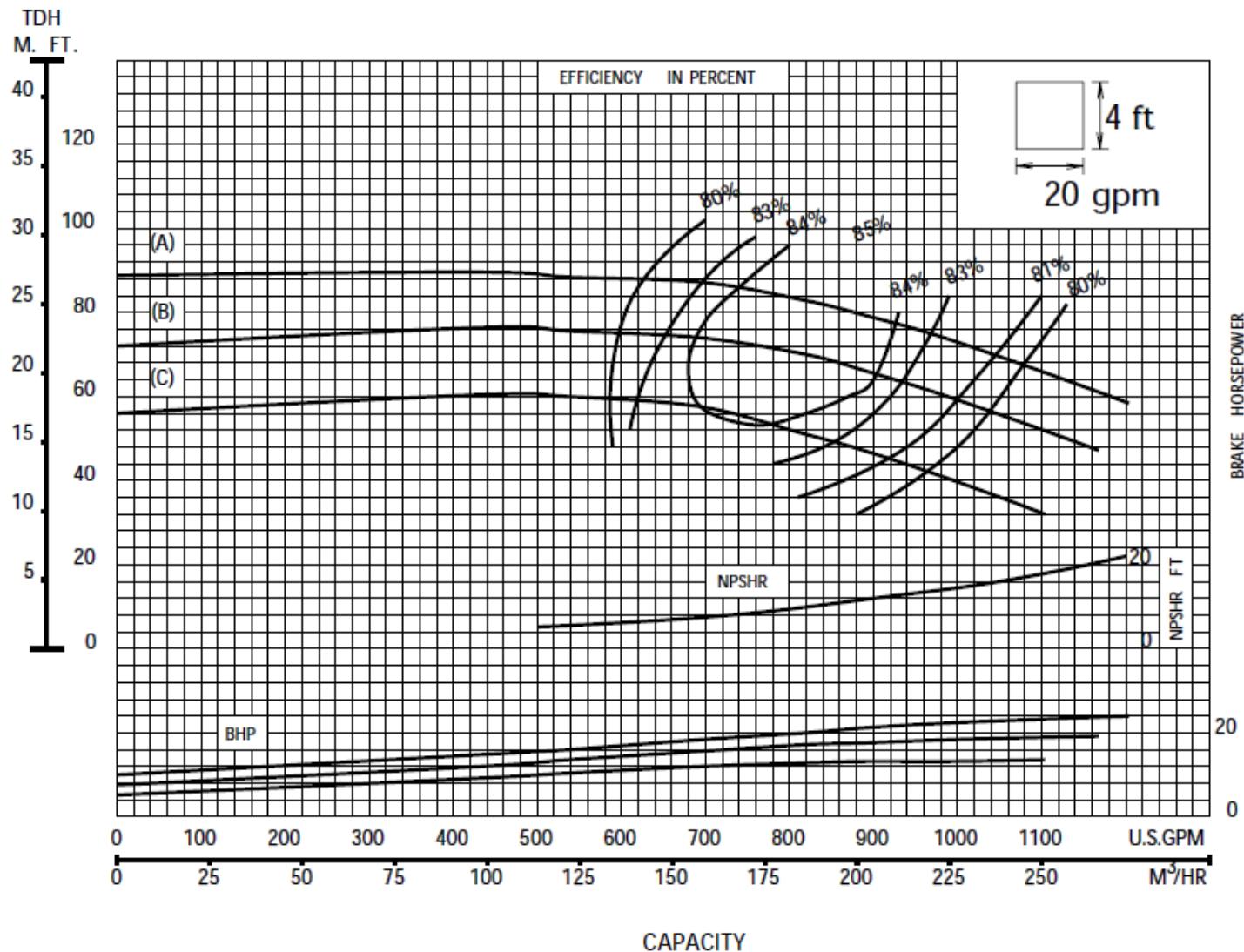
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IMPELLER DATA			
IMPELLER NUMBER	2997	TRIM:	(A) 9.313" X 23°
MATERIAL	BRONZE		(B) 8.750" X 23°
TYPE	SEMI-OPEN		(C) 7.938" X 23°
THRUST FACTOR	K=7.75		
EYE AREA	20.38 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	9.00 LB.		

BOWL DATA	
BOWL NUMBER	2994-S C.I./ENAM.
BOWL MAX. DIAMETER	12.000 IN.
BOWL MIN. DIAMETER	11.500 IN.
MAX. NO. STAGES	16
ONE STAGE WEIGHT	340 LB.
ADD STAGE WEIGHT	100 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.500 IN.
DISCHARGE SIZE	6 - 8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	0.625 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-4	-3	-2	-1
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

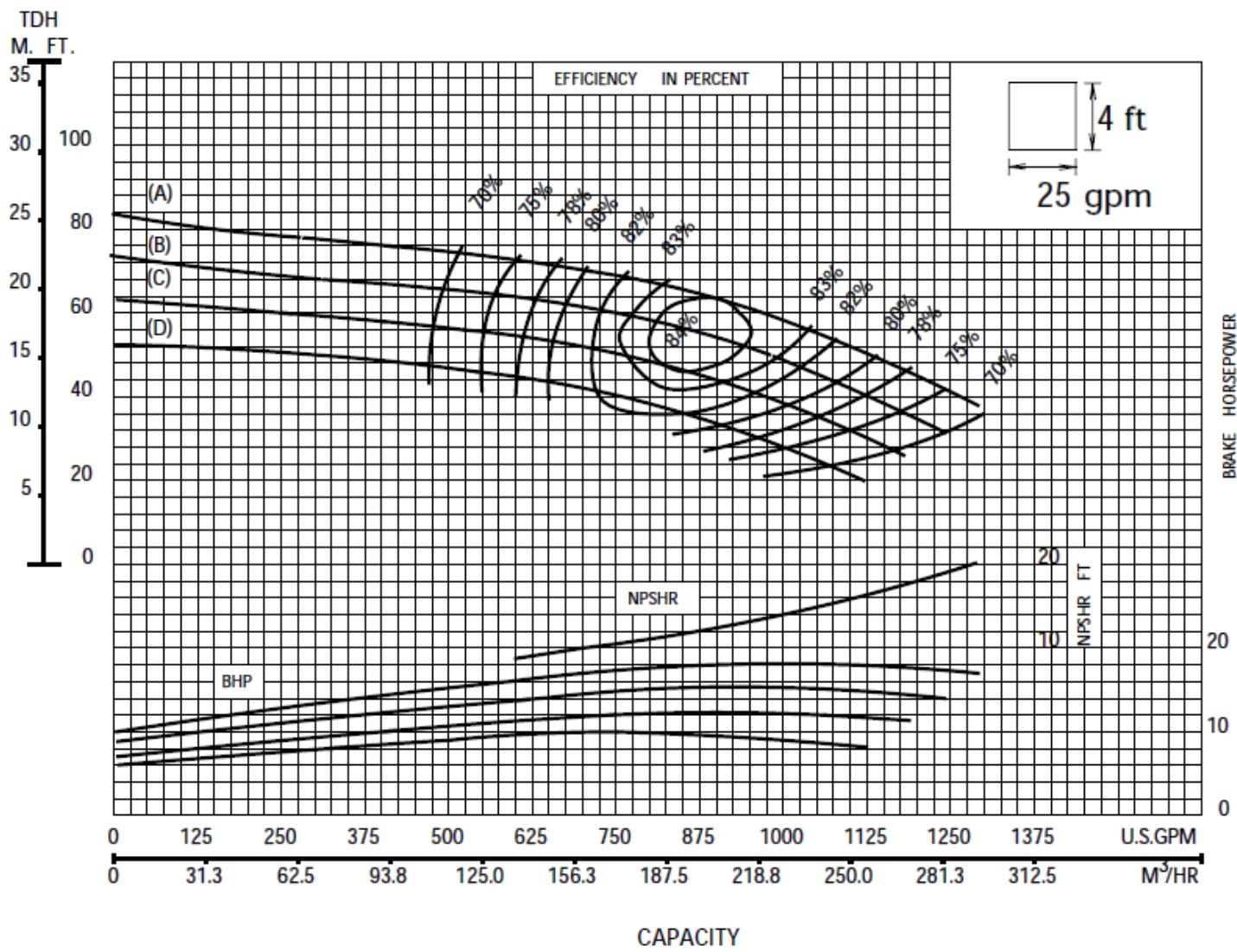
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3779	TRIM:	(A) 9.375" X 21.5°
MATERIAL	BRONZE		(B) 8.750" X 21.5°
TYPE	SEMI-OPEN		(C) 8.250" X 21.5°
THRUST FACTOR	K=12.50		(D) 7.750" X 21.5°
EYE AREA	20.10 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	8.13 LB.		

BOWL DATA	
BOWL NUMBER	2952-S C.I./ENAM.
BOWL MAX. DIAMETER	11.563 IN.
BOWL MIN. DIAMETER	11.250 IN.
MAX. NO. STAGES	19
ONE STAGE WEIGHT	340 LB.
ADD STAGE WEIGHT	100 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	6 - 8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	0.625 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-4	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

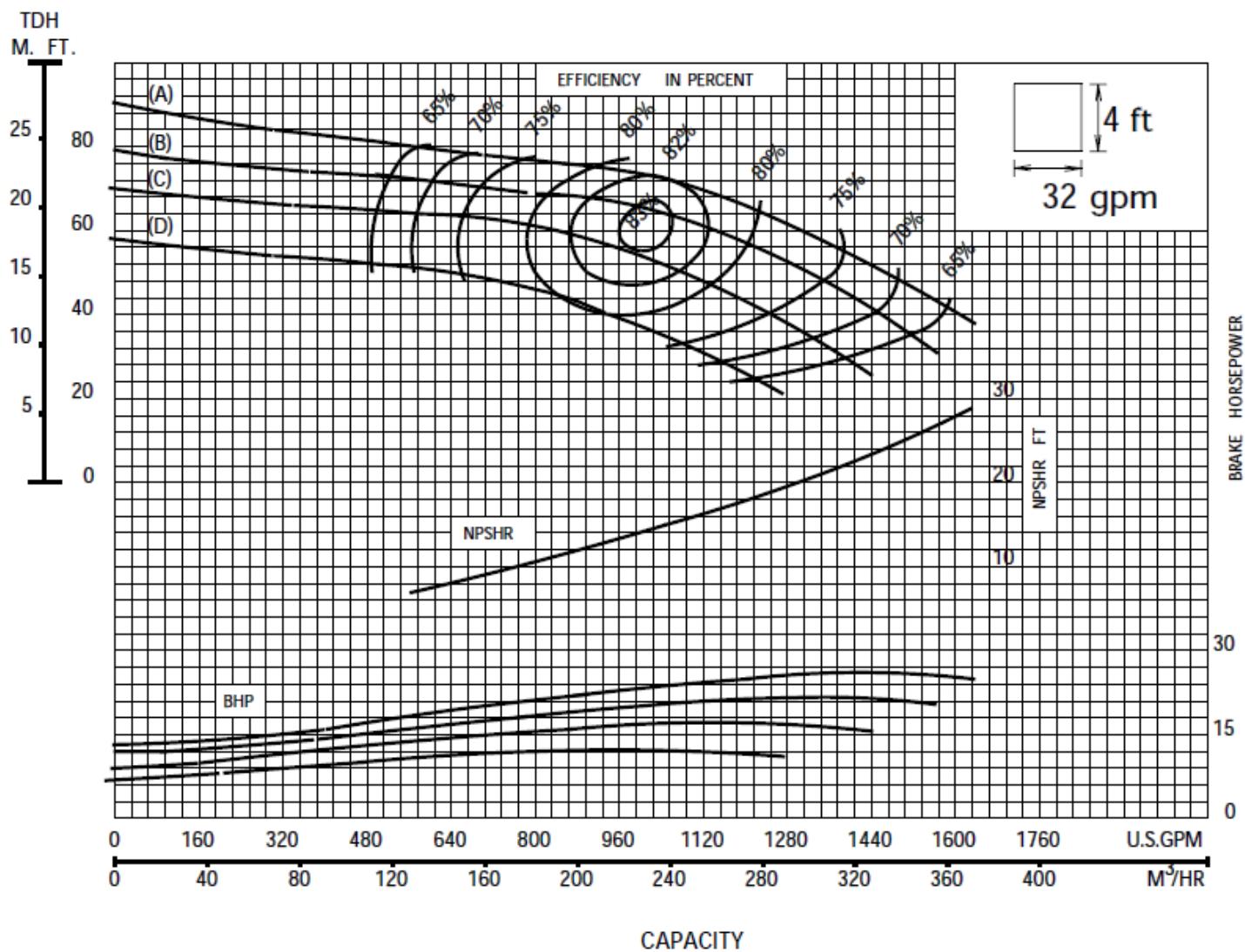
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	2956	TRIM:	(A) 9.375" X 21.5°
MATERIAL	BRONZE		(B) 9.000" X 21.5°
TYPE	SEMI-OPEN		(C) 8.625" X 21.5°
THRUST FACTOR	K=12.50		(D) 8.000" X 21.5°
EYE AREA	20.10 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	10.00 LB.		

BOWL DATA	
BOWL NUMBER	2952-S C.I./ENAM.
BOWL MAX. DIAMETER	11.563 IN.
BOWL MIN. DIAMETER	11.250 IN.
MAX. NO. STAGES	14
ONE STAGE WEIGHT	340 LB.
ADD STAGE WEIGHT	100 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.750 IN.
DISCHARGE SIZE	6 - 8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	0.625 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-3	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

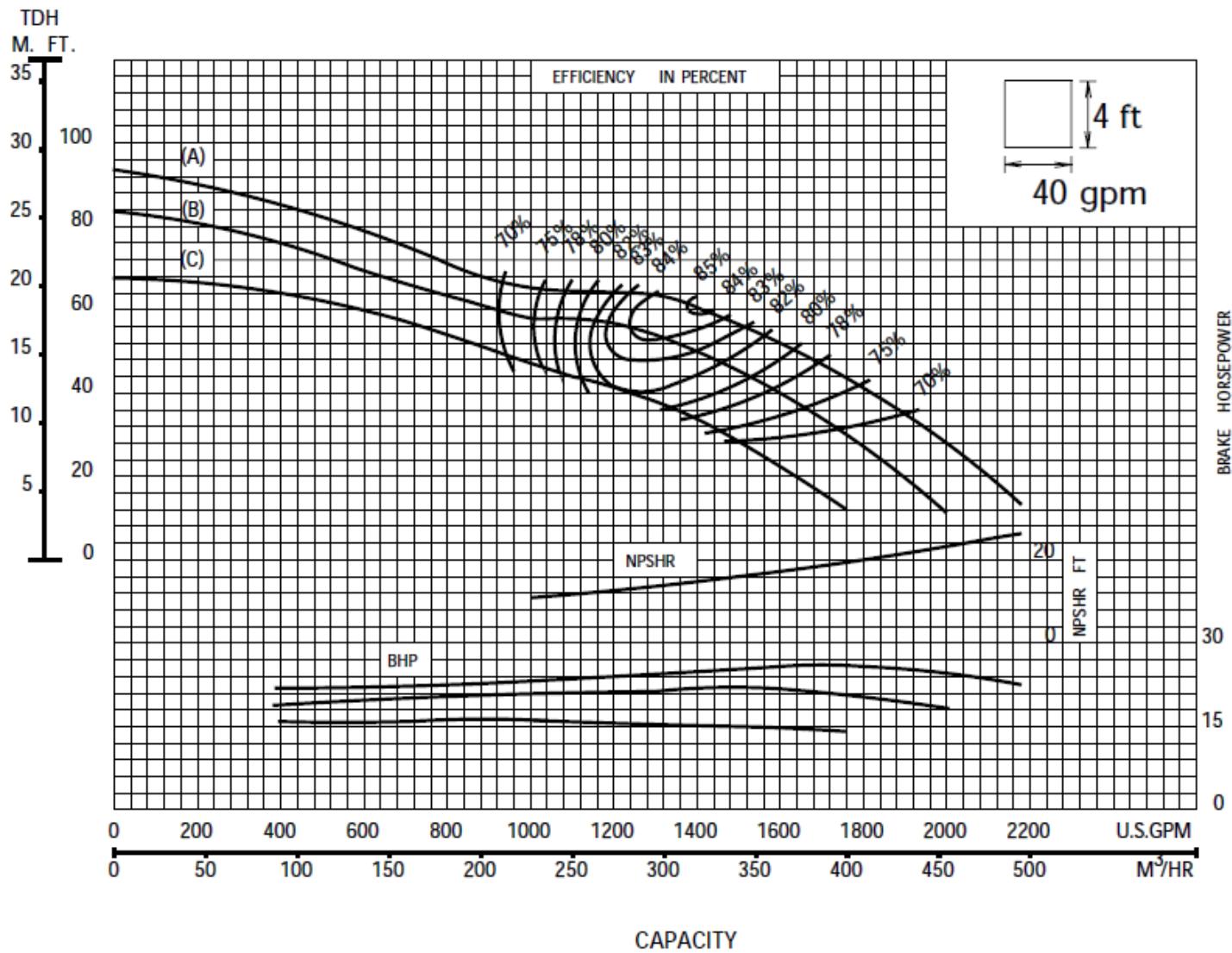
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W12HS

1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	2953	TRIM:	(A) 9.563" X 30°
MATERIAL	BRONZE		(B) 9.281" X 30°
TYPE	SEMI-OPEN		(C) 8.875" X 30°
THRUST FACTOR	K=19.00		
EYE AREA	32.40 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	11.25 LB.		

BOWL DATA	
BOWL NUMBER	2915-S C.I./ENAM.
BOWL MAX. DIAMETER	11.563 IN.
BOWL MIN. DIAMETER	11.250 IN.
MAX. NO. STAGES	15
ONE STAGE WEIGHT	340 LB.
ADD STAGE WEIGHT	100 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.750 IN.
DISCHARGE SIZE	6 - 8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	0.750 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-3	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

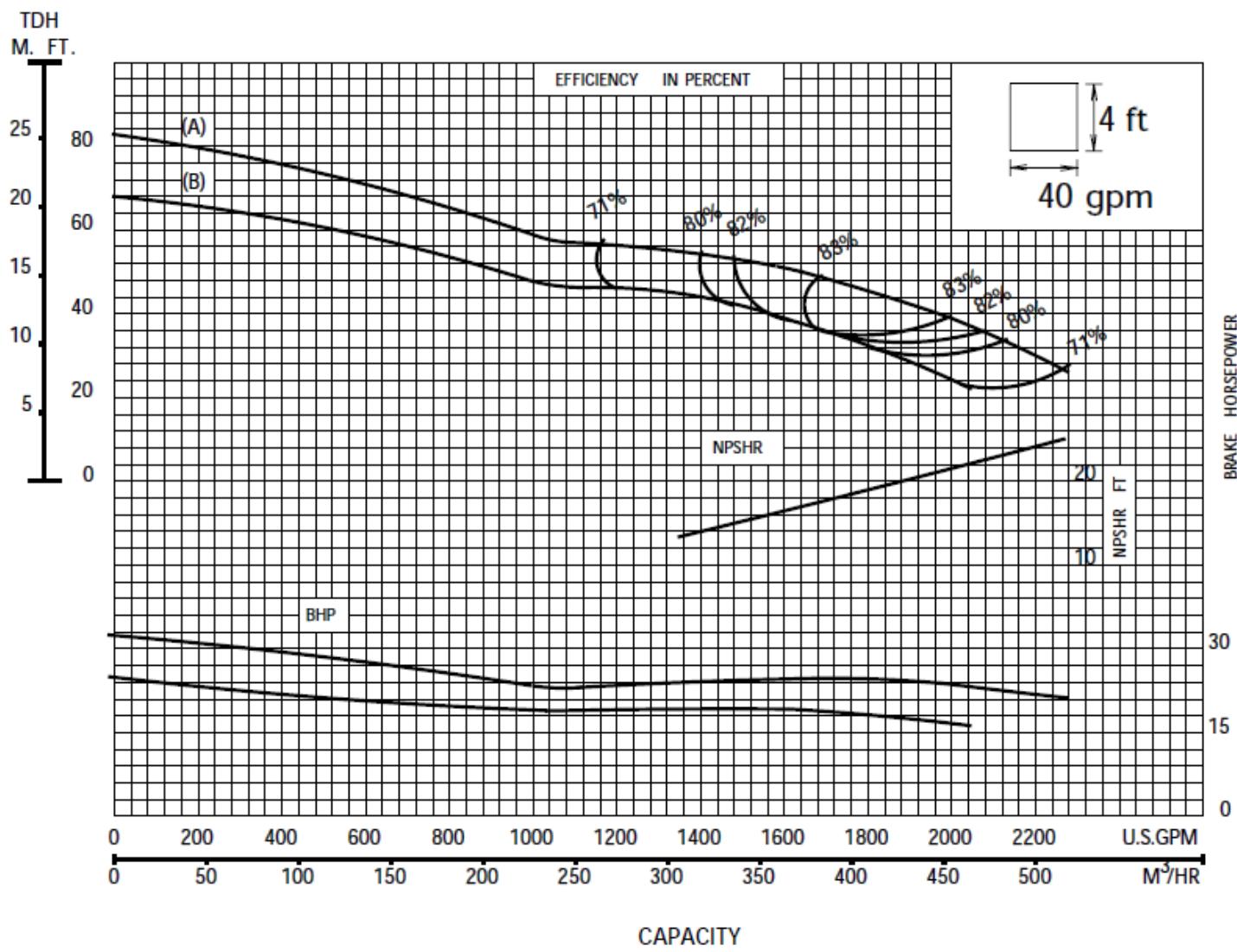
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

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IMPELLER DATA			
IMPELLER NUMBER	3374	TRIM:	(A) 9.563" X 26.5°
MATERIAL	BRONZE		(B) 9.281" X 26.5°
TYPE	SEMI-OPEN		
THRUST FACTOR	K=20.80		
EYE AREA	35.60 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	11.50 LB.		

BOWL DATA	
BOWL NUMBER	3361-S C.I./ENAM.
BOWL MAX. DIAMETER	11.563 IN.
BOWL MIN. DIAMETER	11.250 IN.
MAX. NO. STAGES	11
ONE STAGE WEIGHT	340 LB.
ADD STAGE WEIGHT	100 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	1.000 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-4	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

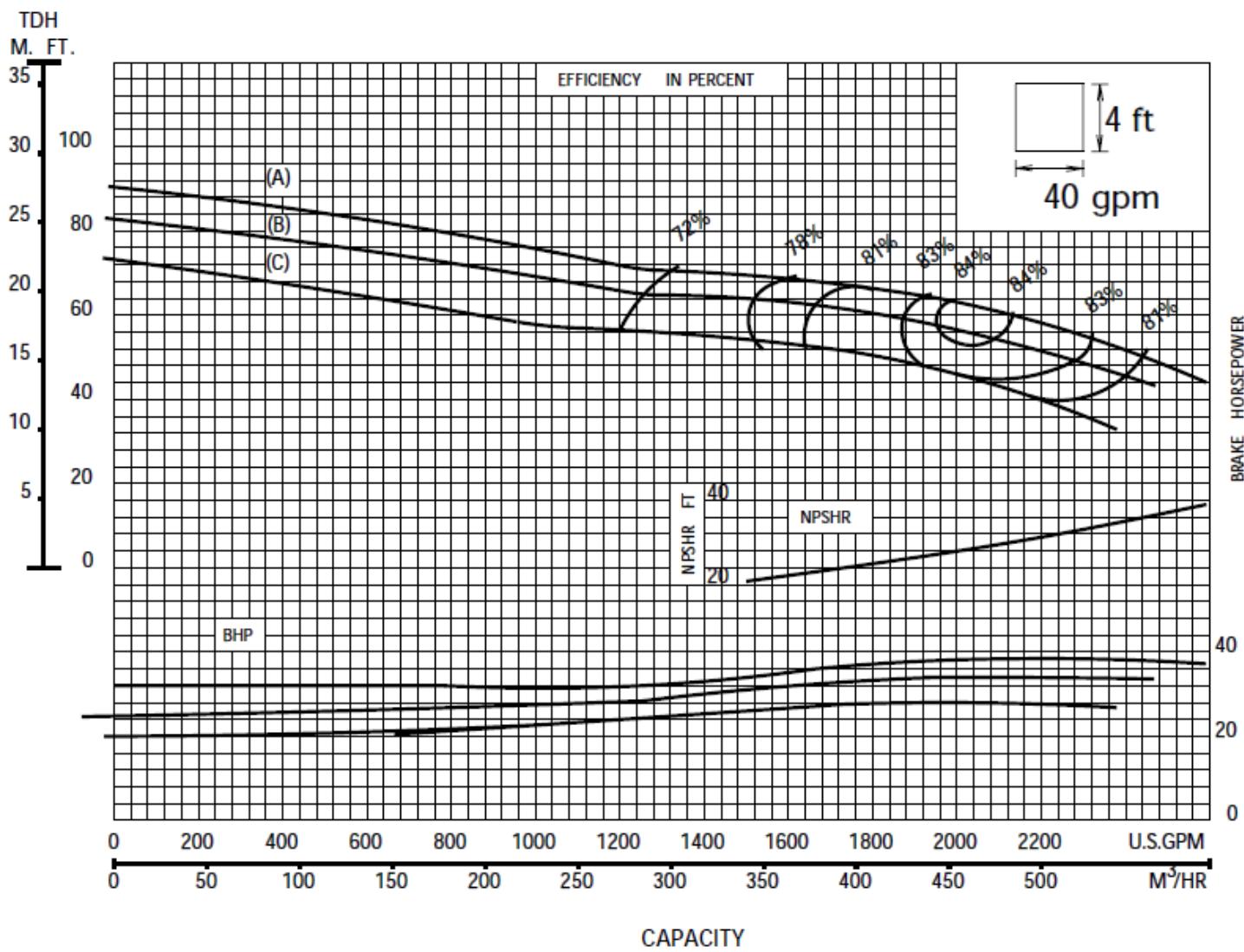
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Wilo-Vertical Turbine Pump Curve

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1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	4774	TRIM:	(A) 10.063" X 30.5°
MATERIAL	BRONZE		(B) 9.750" X 30.5°
TYPE	SEMI-OPEN		(C) 9.375" X 30.5°
THRUST FACTOR	K=17.40		
EYE AREA	29.70 SQ. IN.		Minimum submergence above eye of bottom impeller: 32 IN.
WEIGHT	14.50 LB.		

BOWL DATA	
BOWL NUMBER	4771-S C.I./ENAM.
BOWL MAX. DIAMETER	12.188 IN.
BOWL MIN. DIAMETER	11.750 IN.
MAX. NO. STAGES	9
ONE STAGE WEIGHT	415 LB.
ADD STAGE WEIGHT	140 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.750 IN.
DISCHARGE SIZE	8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	1.375 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-4	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

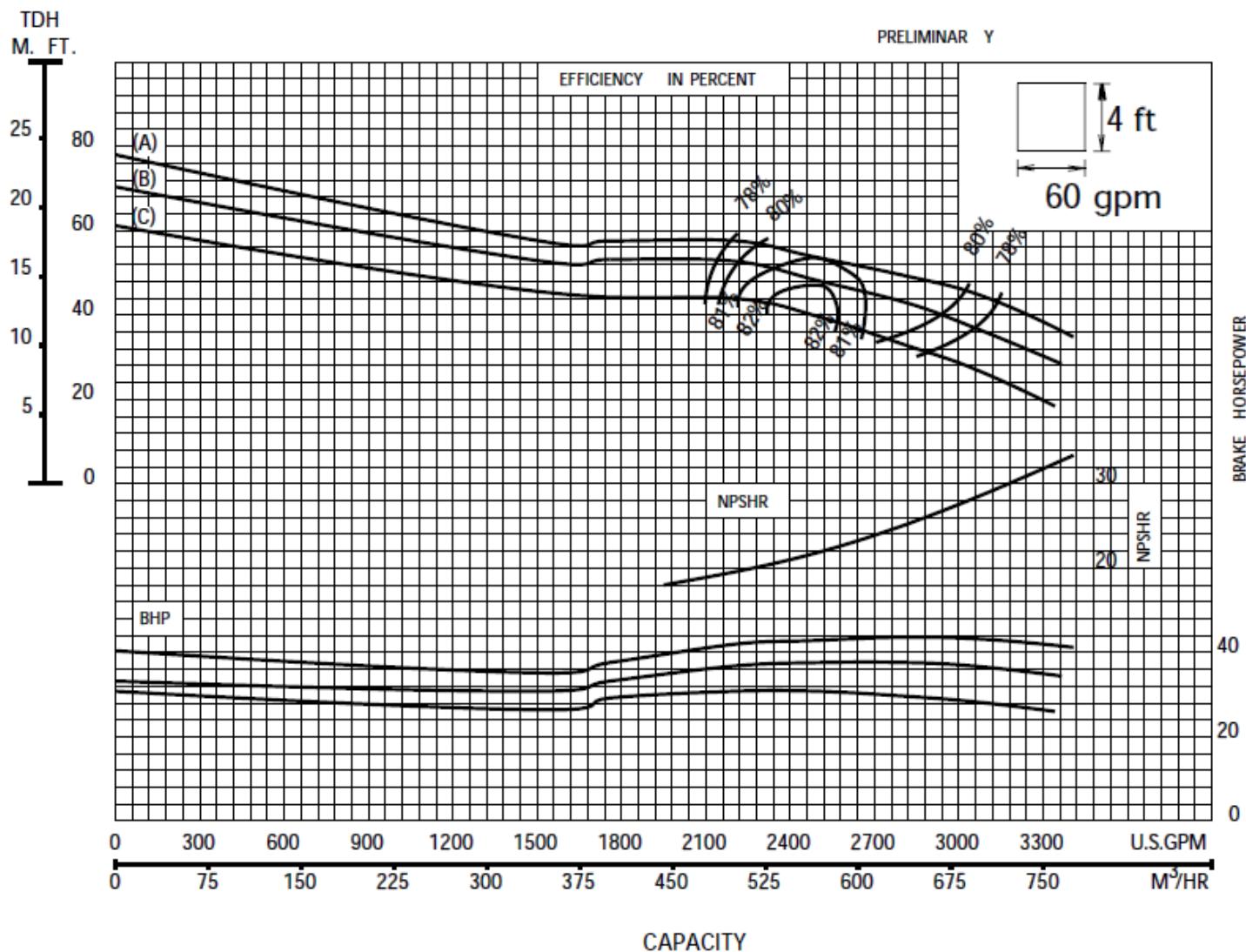
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W12YS

1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	4778	TRIM:	(A) 9.500" X 35°
MATERIAL	BRONZE		(B) 9.000" X 35°
TYPE	SEMI-OPEN		(C) 8.625" X 35°
THRUST FACTOR	K=16.50		
EYE AREA	38.00 SQ. IN.		Minimum submergence above eye of bottom impeller: 36 IN.
WEIGHT	19.00 LB.		

BOWL DATA	
BOWL NUMBER	4772-S C.I./ENAM.
BOWL MAX. DIAMETER	12.188 IN.
BOWL MIN. DIAMETER	11.750 IN.
MAX. NO. STAGES	8
ONE STAGE WEIGHT	415 LB.
ADD STAGE WEIGHT	140 LB.
STD. SHAFT DIA.	1.688 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	8 - 10 N.
SUCTION SIZE	8 - 10 IN.
MAX. SPHERE SIZE	1.500 IN
MAX. OPERATIONAL P.S.I.	584 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-4	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

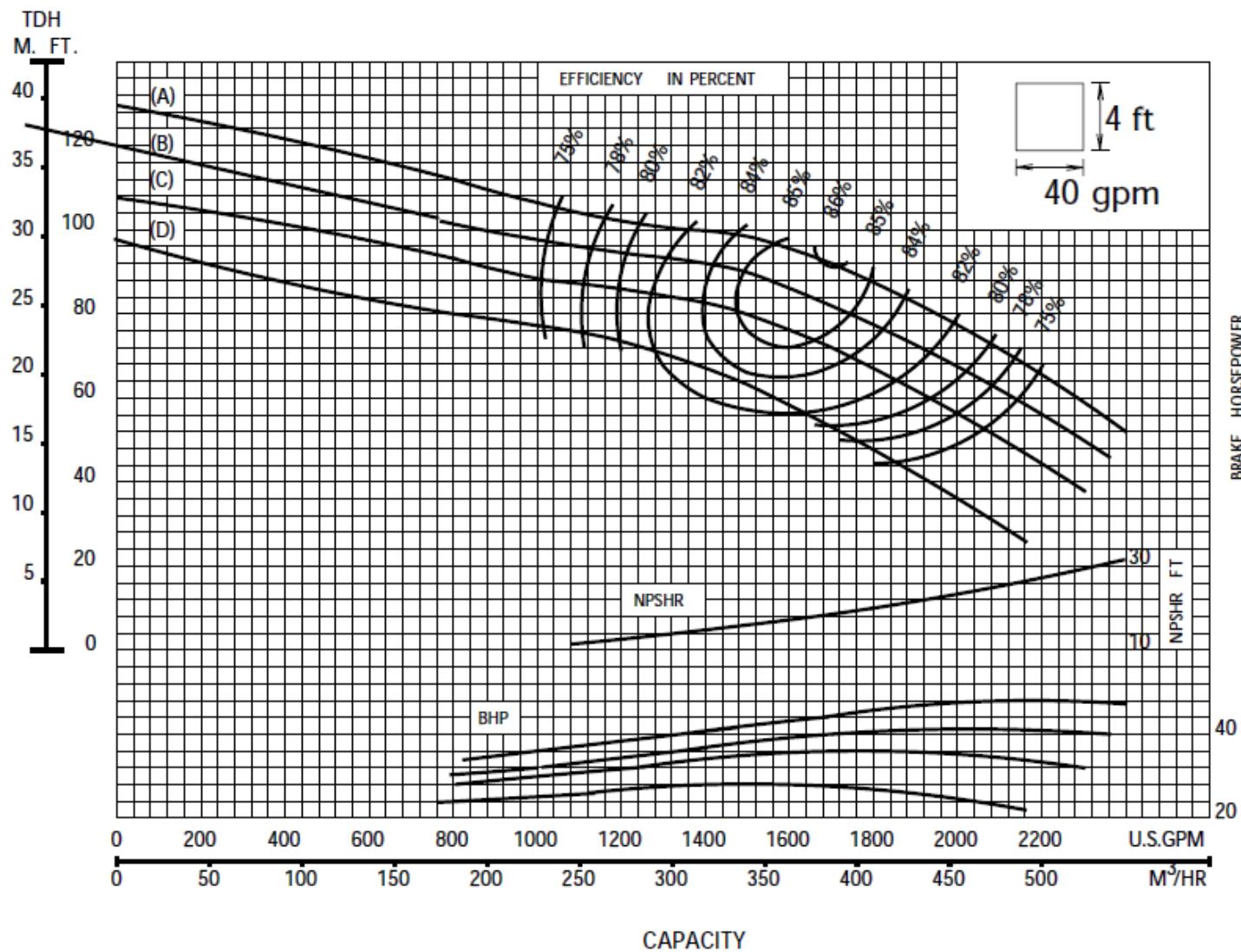
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Wilo-Vertical Turbine Pump Curve

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W14LS

1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	3107	TRIM:	(A) 11.313" X 23°
MATERIAL	BRONZE		(B) 11.000" X 23°
TYPE	SEMI-OPEN		(C) 10.688" X 23°
THRUST FACTOR	K=19.70		(D) 10.313" X 23°
EYE AREA	31.50 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	18.50 LB.		

BOWL DATA	
BOWL NUMBER	3106-S C.I./ENAM.
BOWL MAX. DIAMETER	13.500 IN.
BOWL MIN. DIAMETER	13.250 IN.
MAX. NO. STAGES	12
ONE STAGE WEIGHT	490 LB.
ADD STAGE WEIGHT	175 LB.
STD. SHAFT DIA.	1.938 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	10 - 12 N.
SUCTION SIZE	10 - 12 IN.
MAX. SPHERE SIZE	0.750 IN
MAX. OPERATIONAL P.S.I.	540 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	
CHANGE AS FOLLOWS:	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

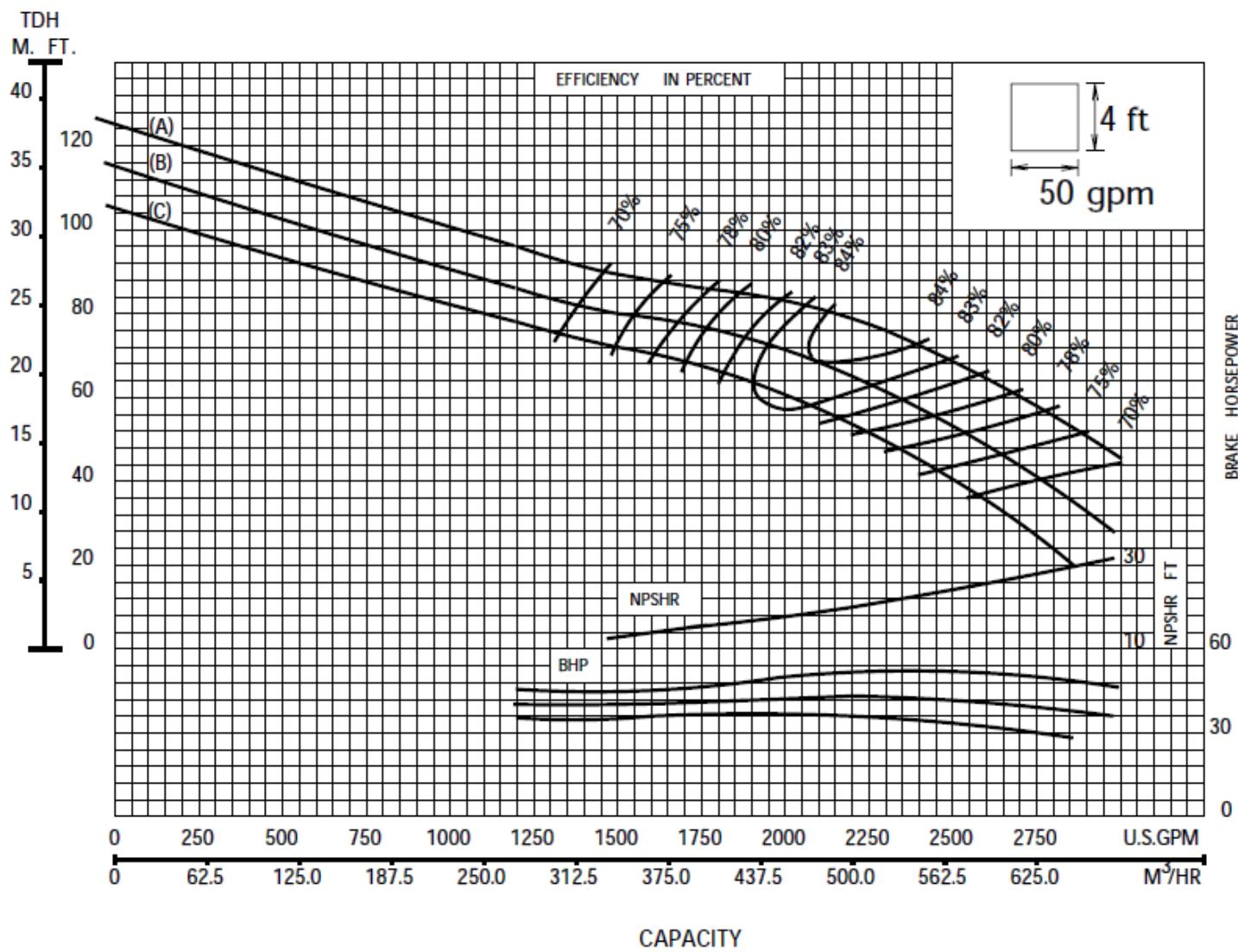
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W14MS

1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	3078	TRIM:	(A) 11.313" X 30°
MATERIAL	BRONZE		(B) 11.000" X 30°
TYPE	SEMI-OPEN		(C) 10.688" X 30°
THRUST FACTOR	K=23.40		
EYE AREA	40.90 SQ. IN.		Minimum submergence above eye of bottom impeller: 30 IN.
WEIGHT	20.25 LB.		

BOWL DATA	
BOWL NUMBER	3042-S C.I./ENAM.
BOWL MAX. DIAMETER	13.500 IN.
BOWL MIN. DIAMETER	13.250 IN.
MAX. NO. STAGES	10
ONE STAGE WEIGHT	490 LB.
ADD STAGE WEIGHT	175 LB.
STD. SHAFT DIA.	1.938 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	10 - 12 N.
SUCTION SIZE	10 - 12 IN.
MAX. SPHERE SIZE	1.250 IN
MAX. OPERATIONAL P.S.I.	540 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-3	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

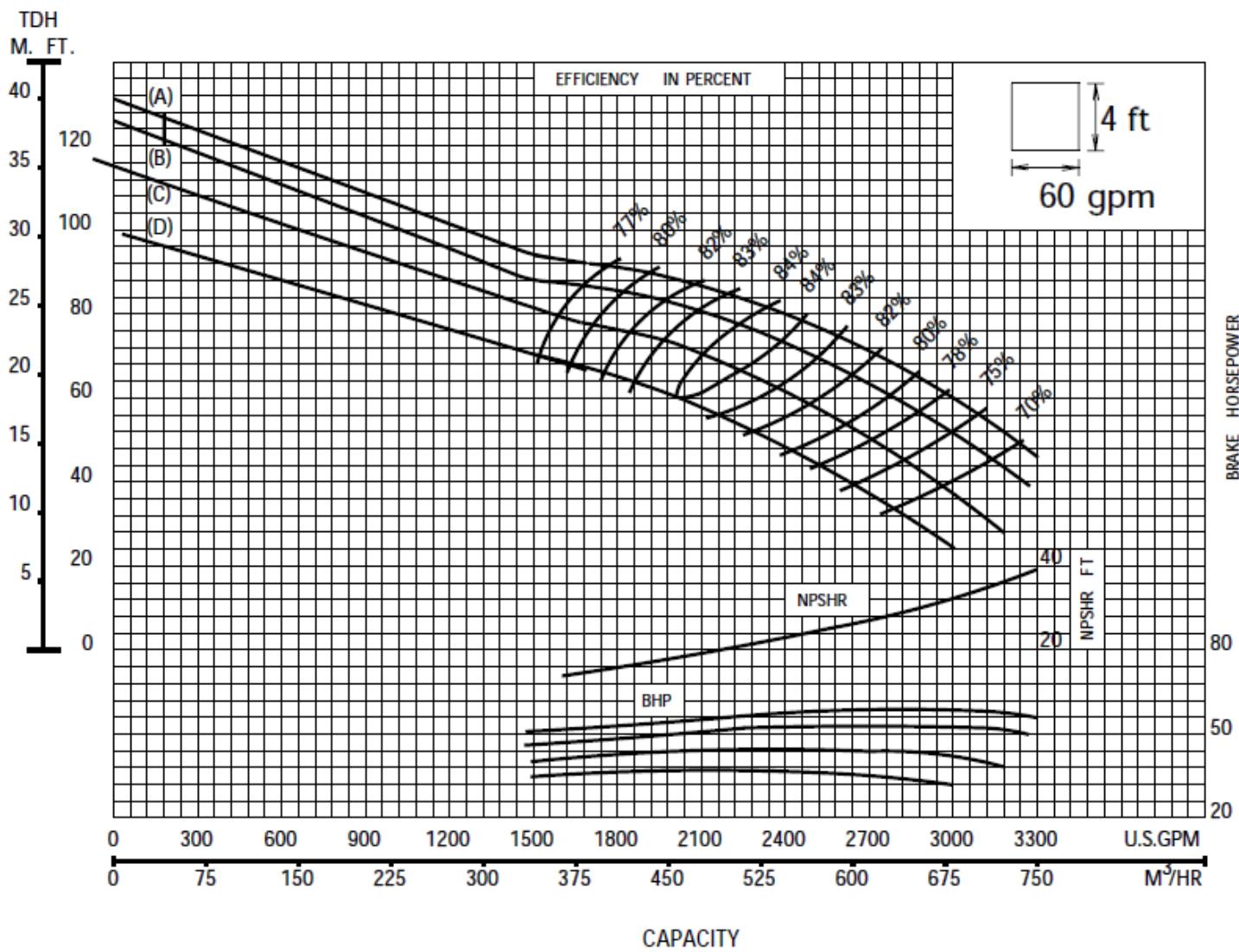
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Wilo-Vertical Turbine Pump Curve

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1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	3029	TRIM:	(A) 11.313" X 32.5°
MATERIAL	BRONZE		(B) 11.125" X 32.5°
TYPE	SEMI-OPEN		(C) 10.844" X 32.5°
THRUST FACTOR	K=25.20		(D) 10.500" X 32.5°
EYE AREA	43.85 SQ. IN.		Minimum submergence above eye of bottom impeller: 32 IN.
WEIGHT	22.25 LB.		

BOWL DATA	
BOWL NUMBER	3042-S C.I./ENAM.
BOWL MAX. DIAMETER	13.500 IN.
BOWL MIN. DIAMETER	13.250 IN.
MAX. NO. STAGES	9
ONE STAGE WEIGHT	490 LB.
ADD STAGE WEIGHT	175 LB.
STD. SHAFT DIA.	1.938 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	10 - 12 N.
SUCTION SIZE	10 - 12 IN.
MAX. SPHERE SIZE	1.250 IN
MAX. OPERATIONAL P.S.I.	540 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-3	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

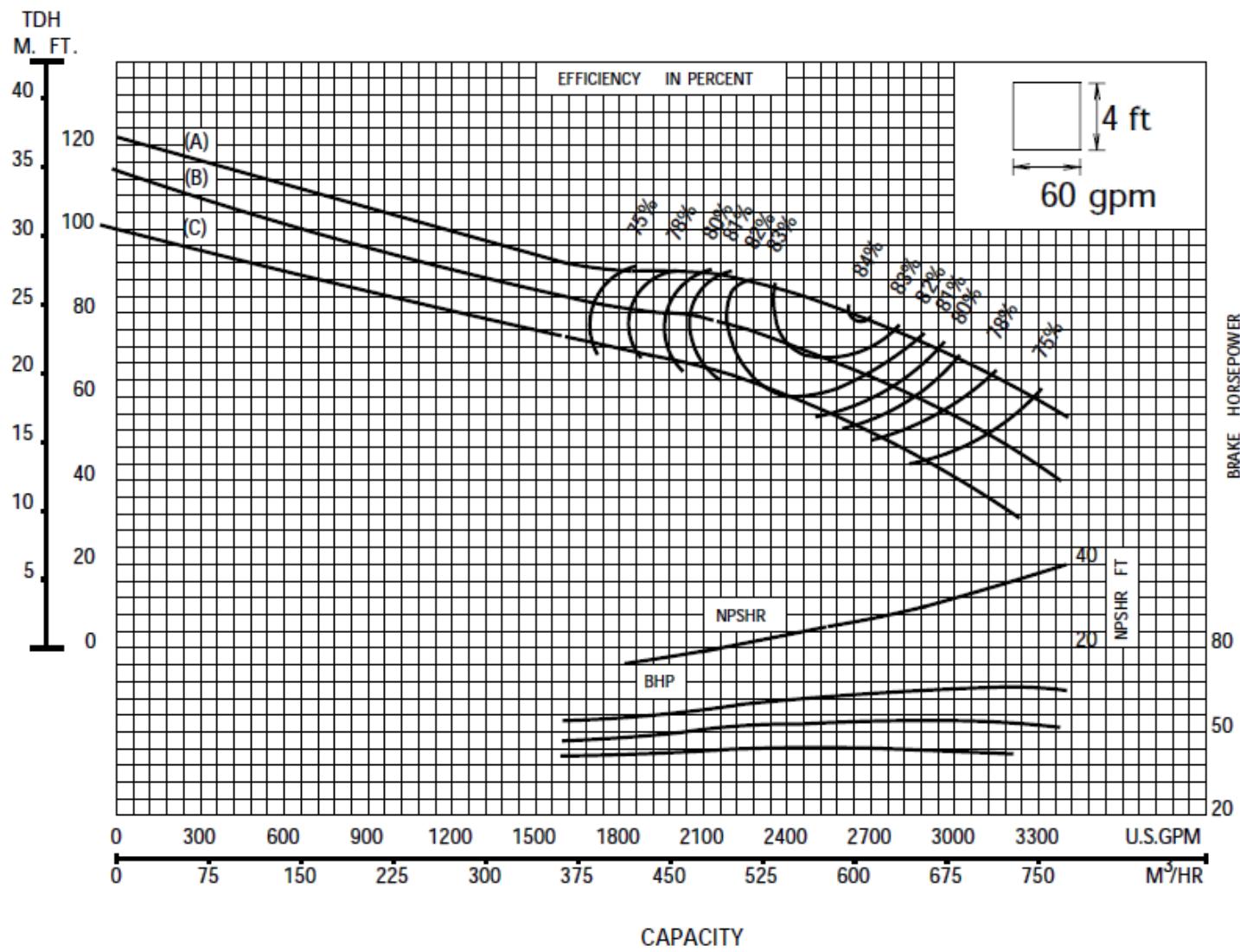
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IMPELLER DATA			
IMPELLER NUMBER	3092	TRIM:	(A) 11.313" X 32.5°
MATERIAL	BRONZE		(B) 11.000" X 32.5°
TYPE	SEMI-OPEN		(C) 10.625" X 32.5°
THRUST FACTOR	K=23.20		
EYE AREA	40.90 SQ. IN.		Minimum submergence above eye of bottom impeller: 32 IN.
WEIGHT	20.25 LB.		

BOWL DATA	
BOWL NUMBER	3042-S C.I./ENAM.
BOWL MAX. DIAMETER	13.500 IN.
BOWL MIN. DIAMETER	13.250 IN.
MAX. NO. STAGES	8
ONE STAGE WEIGHT	490 LB.
ADD STAGE WEIGHT	175 LB.
STD. SHAFT DIA.	1.938 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	10 - 12 N.
SUCTION SIZE	10 - 12 IN.
MAX. SPHERE SIZE	1.250 IN
MAX. OPERATIONAL P.S.I.	540 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-3	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

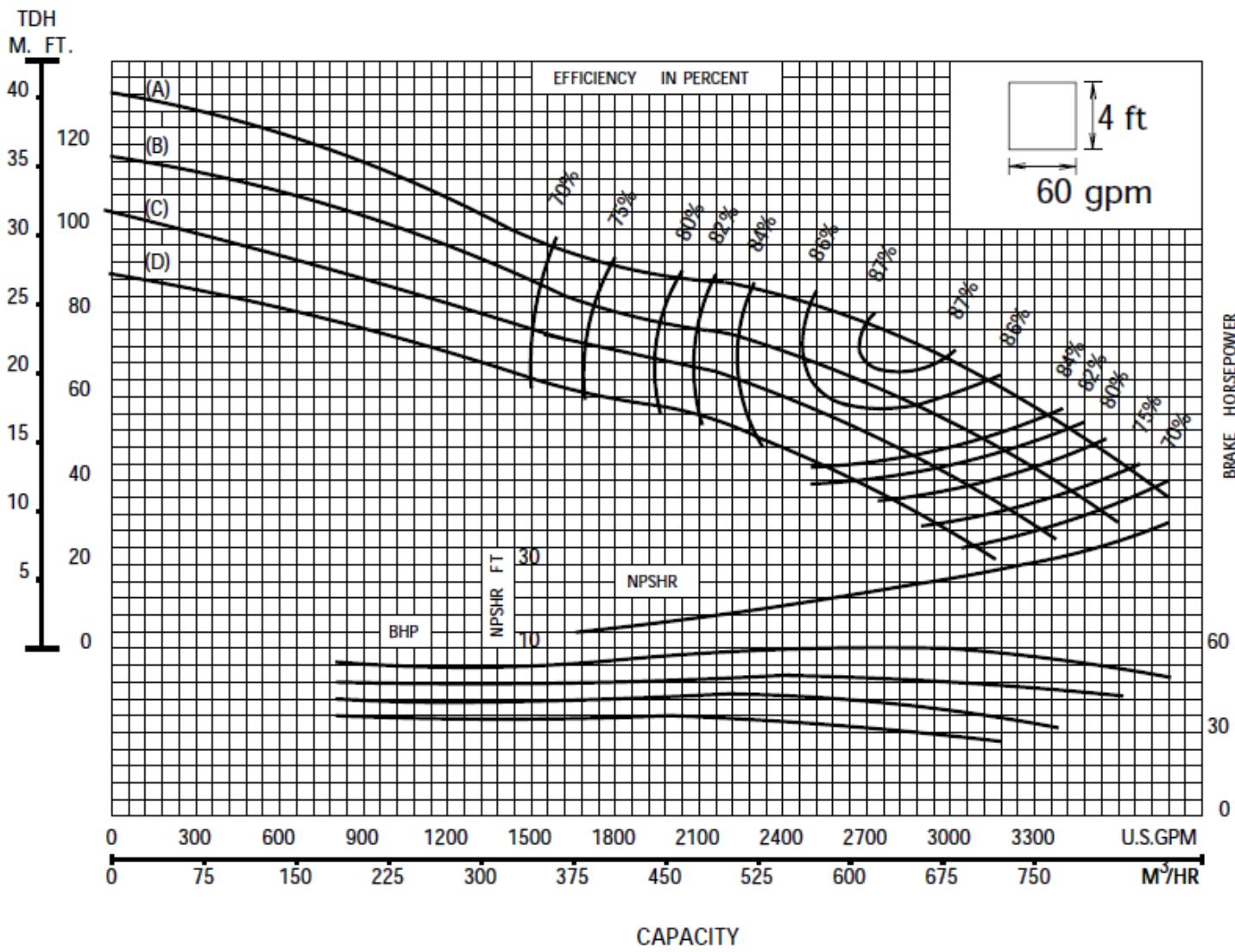
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W14WS

1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	4153	TRIM:	(A) 11.813" X 35°
MATERIAL	BRONZE		(B) 11.500" X 35°
TYPE	SEMI-OPEN		(C) 11.000" X 35°
THRUST FACTOR	K=26.20		(C) 10.500" X 35°
EYE AREA	47.30 SQ. IN.		Minimum submergence above eye of bottom impeller: 34 IN.
WEIGHT	23.25 LB.		

BOWL DATA	
BOWL NUMBER	4152-S C.I./ENAM.
BOWL MAX. DIAMETER	14.063 IN.
BOWL MIN. DIAMETER	13.750 IN.
MAX. NO. STAGES	9
ONE STAGE WEIGHT	500 LB.
ADD STAGE WEIGHT	185 LB.
STD. SHAFT DIA.	1.938 IN.
STD. LATERAL	0.875 IN.
DISCHARGE SIZE	10 - 12 N.
SUCTION SIZE	10 - 12 IN.
MAX. SPHERE SIZE	1.500 IN
MAX. OPERATIONAL P.S.I.	540 (SPECIAL)

EFFICIENCY CORRECTION					
NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-4	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

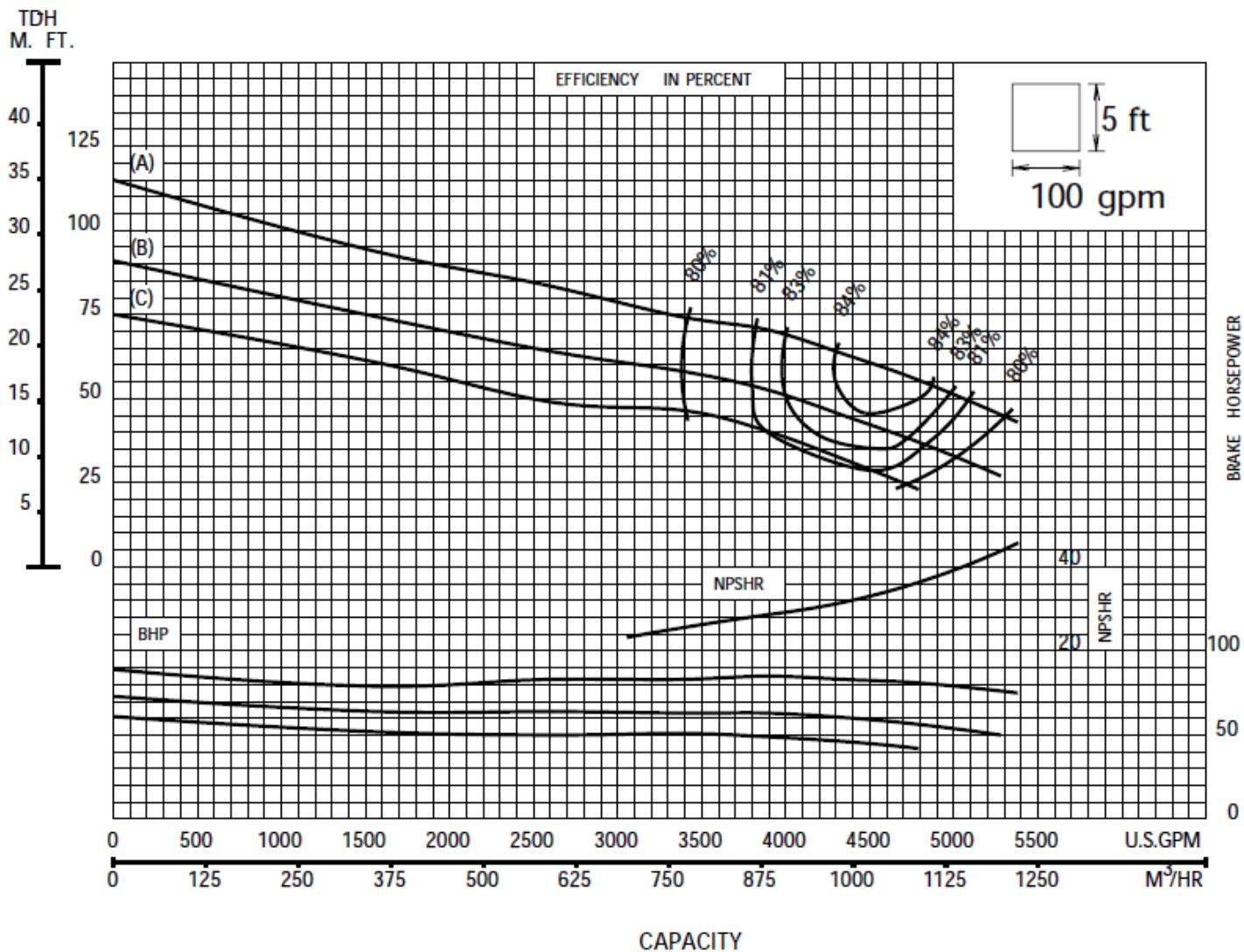
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Wilo-Vertical Turbine Pump Curve

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W15KS

1760 RPM



IMPELLER DATA			
IMPELLER NUMBER	0004-S	TRIM:	(A) 11.850" X 34°
MATERIAL	BRONZE		(B) 11.000" X 34°
TYPE	SEMI-OPEN		(C) 10.500" X 34°
THRUST FACTOR	K=30.00		
EYE AREA	63.60 SQ. IN.		Minimum submergence above eye of bottom impeller: 36 IN.
WEIGHT	21.00 LB.		

BOWL DATA	
BOWL NUMBER	0001-S C.I./ENAM.
BOWL MAX. DIAMETER	15.250 IN.
BOWL MIN. DIAMETER	14.750 IN.
MAX. NO. STAGES	6
ONE STAGE WEIGHT	375 LB.
ADD STAGE WEIGHT	170 LB.
STD. SHAFT DIA.	1.938 IN.
STD. LATERAL	0.688 IN.
DISCHARGE SIZE	10 - 12 N.
SUCTION SIZE	10 - 12 IN.
MAX. SPHERE SIZE	2.250 IN
MAX. OPERATIONAL P.S.I.	540 (SPECIAL)

EFFICIENCY CORRECTION				
NUMBER OF BOWLS:	1	2	3	4
CHANGE AS FOLLOWS:	-4	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

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