



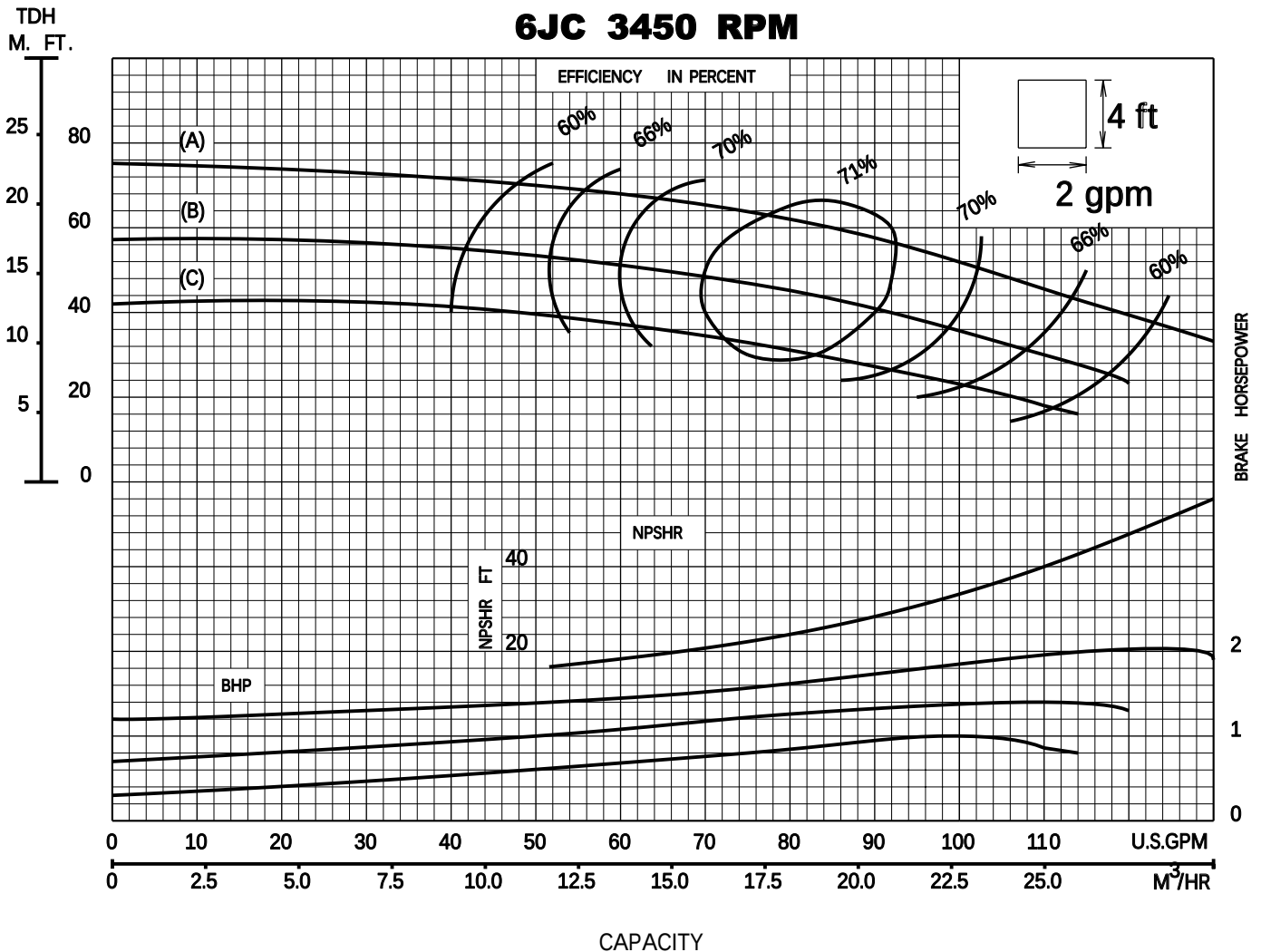
480 Series Vertical Turbine

3600 RPM Performance Curves
Enclosed & Semi-Open Impellers



TURBINE PUMP CURVE

APRIL 2001



IMPELLER DATA

Impeller Number	6404	TRIM: (A) 4.688" X 0
Material	BRONZE	(B) 4.125" X 0
Type	CLOSED	(C) 3.688" X 0
Thrust Factor	K=1.56	
Eye Area	2.41 sq. in.	
Weight	1.80 lb.	Minimum submergence above eye of bottom impeller: 10 in.

FLANGED BOWL DATA

Bowl Number	6515 C.I.
Bowl Dia.	5.563"
Max. No. Stages	60
One Stage Weight	75 lb
Add'l Stage Weight	15 lb
Std. Shaft Dia.	0.750 in
Std. Lateral	0.375 in
Discharge Size	4 in
Suction Size	4 in
Max. Sphere Size	0.125 in
Max Operation P.S.I.	360 (special)

EFFICIENCY CORRECTION

Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0

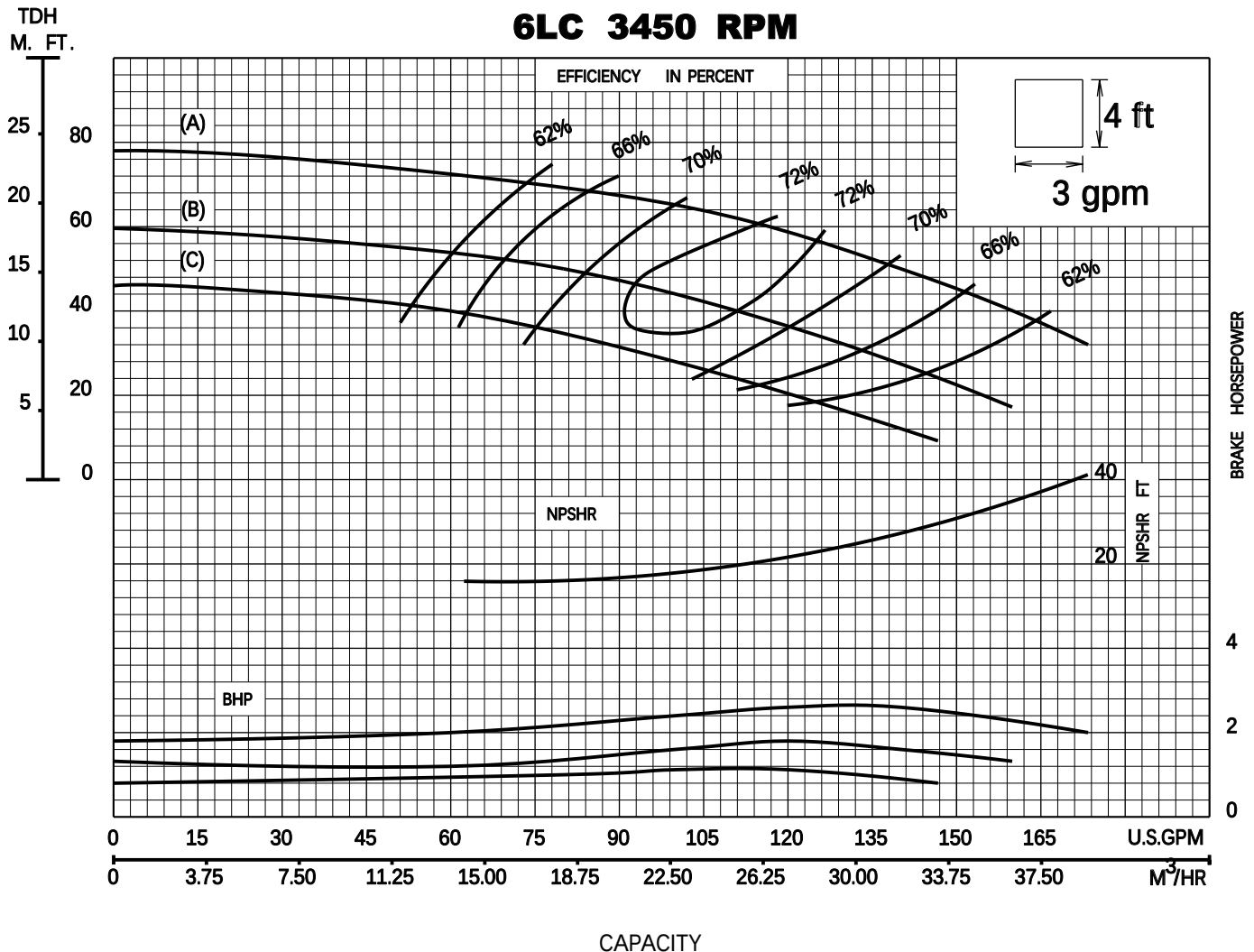
Change in efficiency may affect both head and horsepower.

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



TURBINE PUMP CURVE

APRIL 2001



IMPELLER DATA

Impeller Number	6505	TRIM: (A) 4.688" X 0
Material	BRONZE	(B) 4.125" X 0
Type	CLOSED	(C) 3.688" X 0
Thrust Factor	K=1.56	
Eye Area	2.41 sq. in.	
Weight	2.25 lb.	Minimum submergence above eye of bottom impeller: 12 in.

FLANGED BOWL DATA

Bowl Number	6515 C.I.
Bowl Dia.	5.563"
Max. No. Stages	51
One Stage Weight	75 lb
Add'l Stage Weight	15 lb
Std. Shaft Dia.	0.750 in
Std. Lateral	0.375 in
Discharge Size	4 in
Suction Size	4 in
Max. Sphere Size	0.125 in
Max Operation P.S.I.	360 (special)

EFFICIENCY CORRECTION

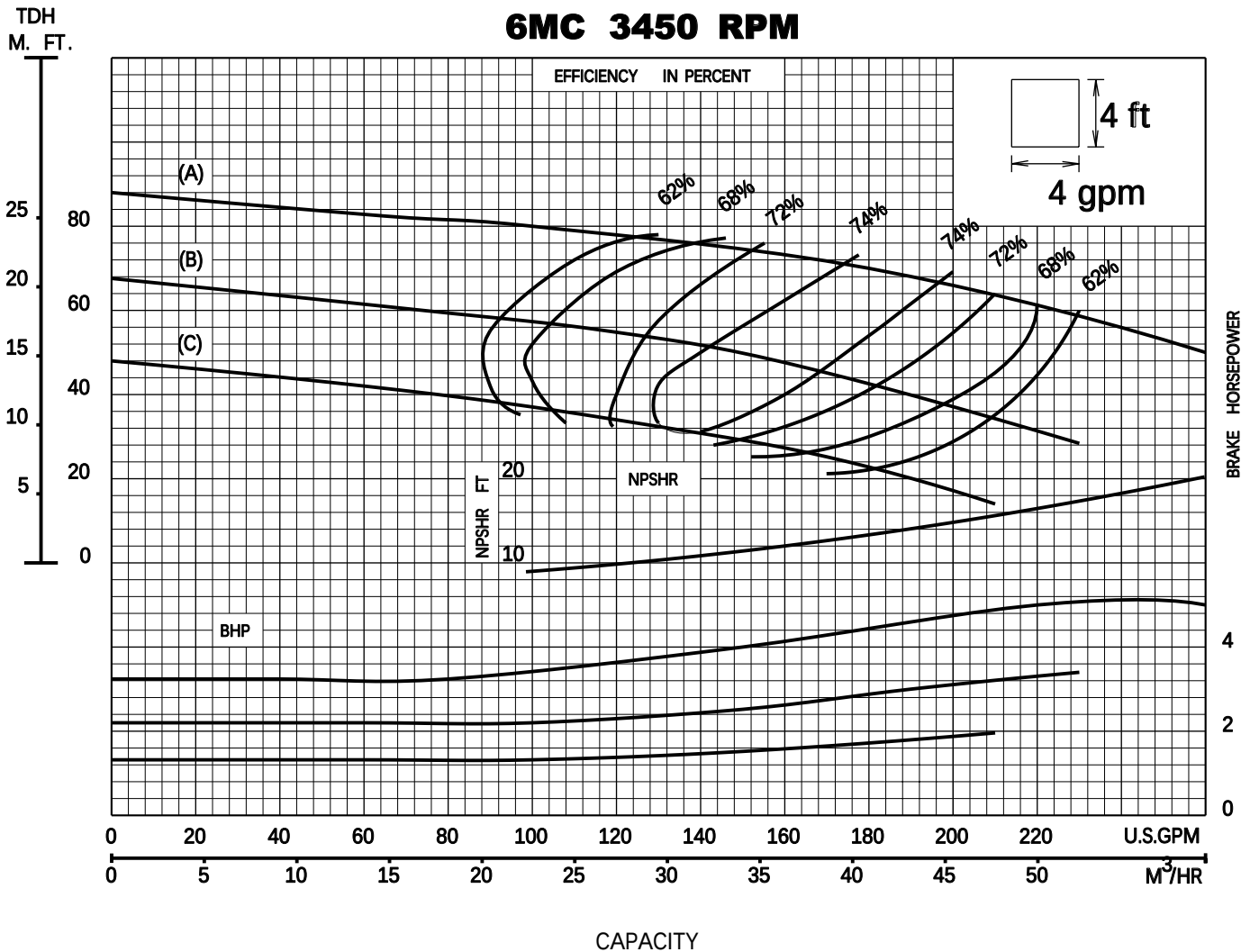
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

APRIL 2001



IMPELLER DATA

Impeller Number	6707	TRIM: (A) 4.688" X 27
Material	BRONZE	(B) 4.250" X 27
Type	CLOSED	(C) 3.750" X 27
Thrust Factor	K=2.24	
Eye Area	3.20 sq. in.	
Weight	2.15 lb.	Minimum submergence above eye of bottom impeller: 12 in.

FLANGED BOWL DATA

Bowl Number	6616 C.I./ENAM.
Bowl Dia.	5.563"
Max. No. Stages	26
One Stage Weight	75 lb
Add'l Stage Weight	15 lb
Std. Shaft Dia.	1.000 in
Std. Lateral	0.500 in
Discharge Size	4 in
Suction Size	4 in
Max. Sphere Size	0.188 in
Max Operation P.S.I.	360 (special)

EFFICIENCY CORRECTION

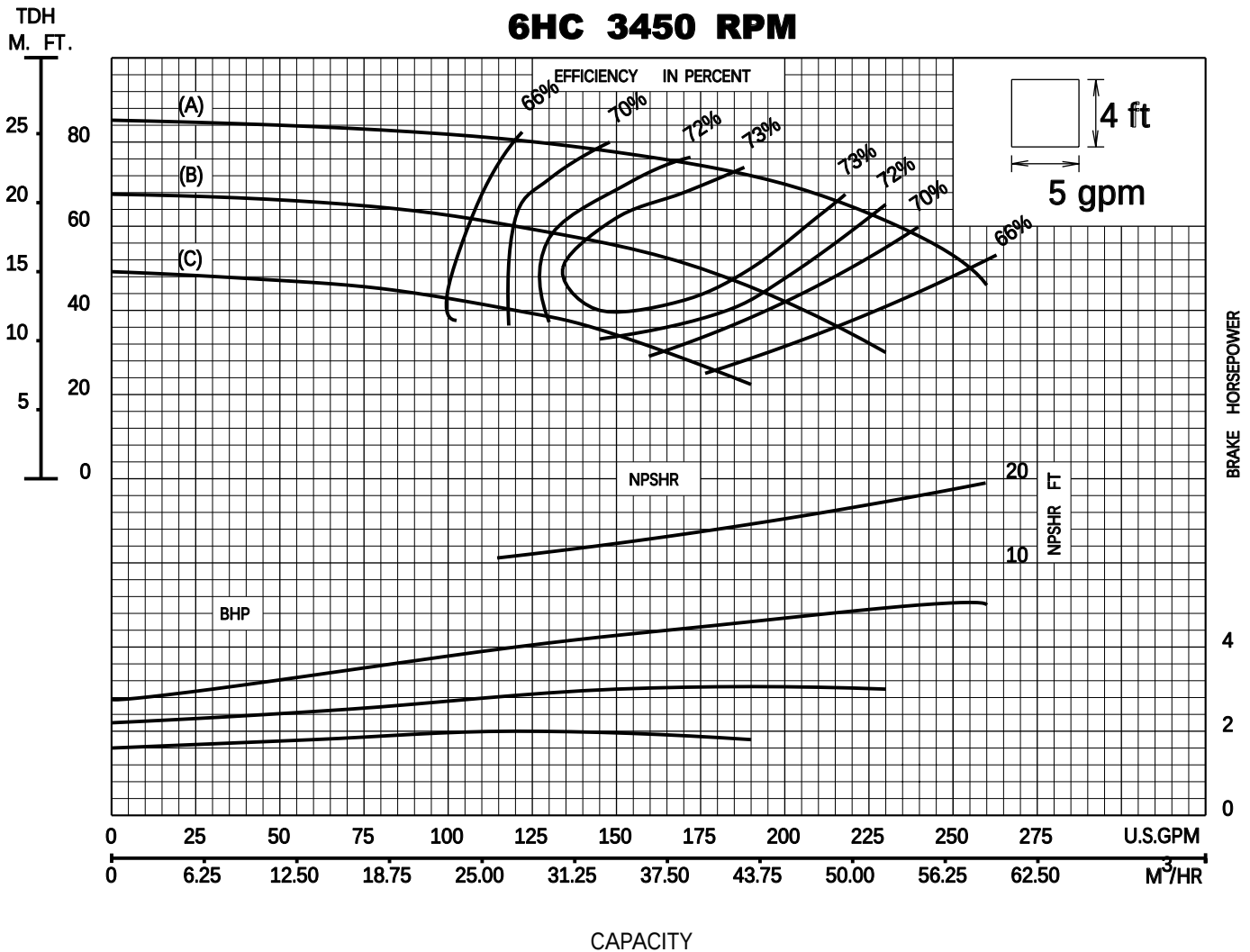
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

APRIL 2001



IMPELLER DATA

Impeller Number	6606	TRIM: (A) 4.688" X 20
Material	BRONZE	(B) 4.250" X 20
Type	CLOSED	(C) 3.750" X 20
Thrust Factor	K=2.24	
Eye Area	3.65 sq. in.	
Weight	2.38 lb.	

Minimum submergence
above eye of bottom
impeller: 12 in.

FLANGED BOWL DATA

Bowl Number	6616 C.I./ENAM.
Bowl Dia.	5.563"
Max. No. Stages	26
One Stage Weight	75 lb
Add'l Stage Weight	15 lb
Std. Shaft Dia.	1.000 in
Std. Lateral	0.500 in
Discharge Size	4 in
Suction Size	4 in
Max. Sphere Size	0.188 in
Max Operation P.S.I.	360 (special)

EFFICIENCY CORRECTION

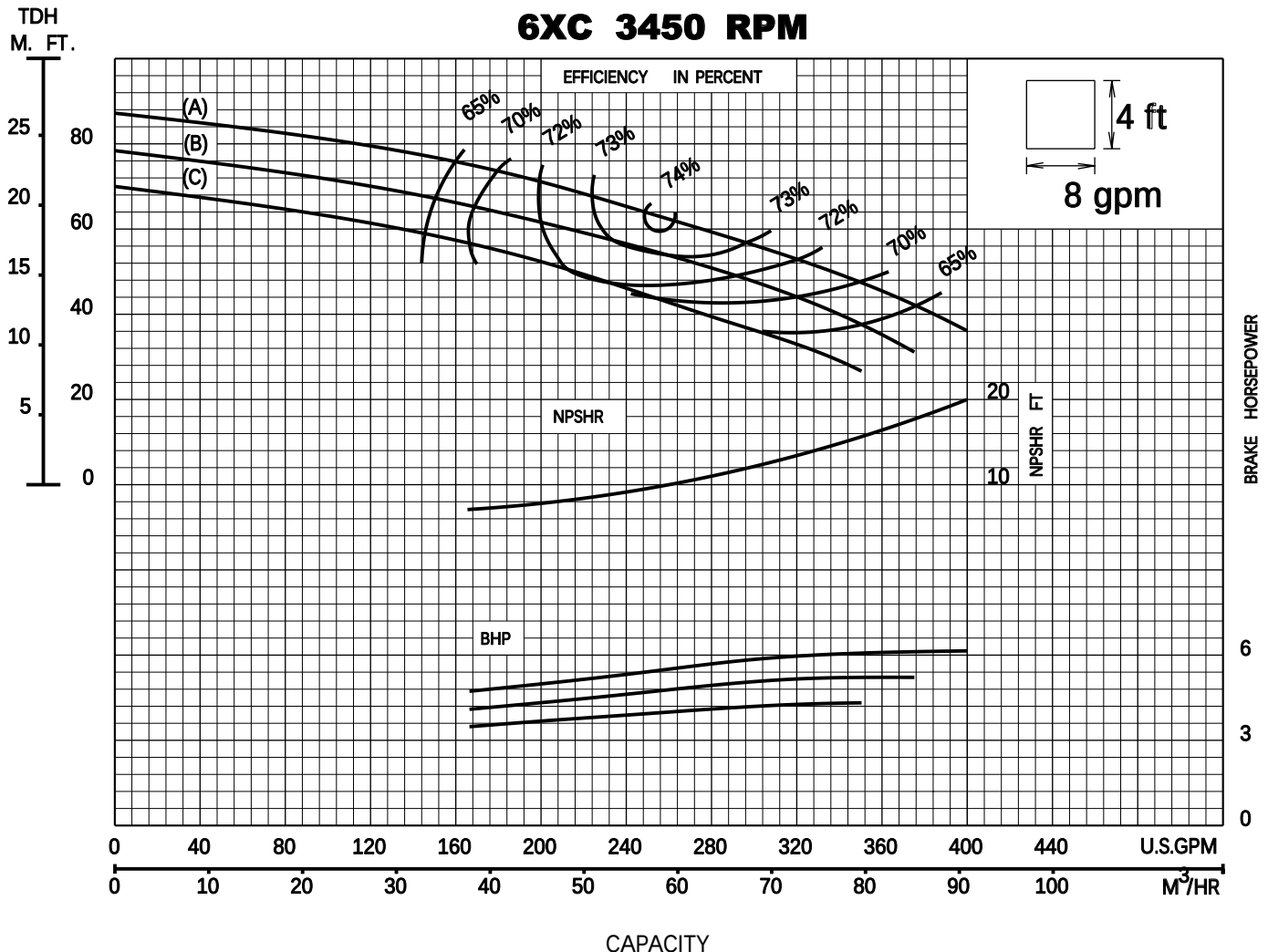
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

APRIL 2001



IMPELLER DATA

Impeller Number	6909	TRIM: (A) 4.625" X 30
Material	BRONZE	(B) 4.438" X 30
Type	CLOSED	(C) 4.250" X 30
Thrust Factor	K=2.83	
Eye Area	4.01 sq. in.	
Weight	2.15 lb.	Minimum submergence above eye of bottom impeller: 20 in.

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.

FLANGED BOWL DATA

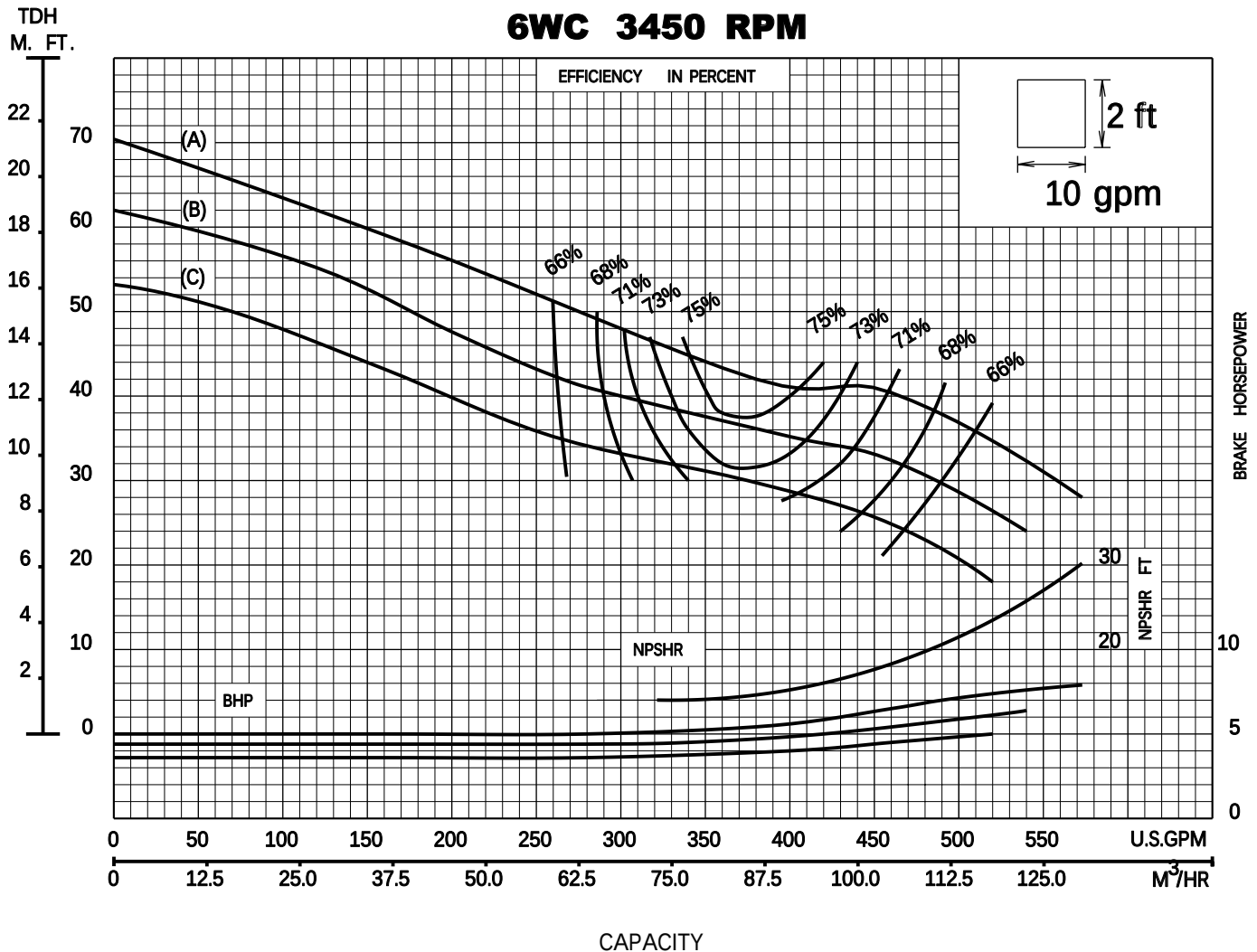
Bowl Number	6919 C.I./ENAM.
Bowl Dia.	5.563"
Max. No. Stages	21
One Stage Weight	75 lb
Add'l Stage Weight	15 lb
Std. Shaft Dia.	1.000 in
Std. Lateral	0.625 in
Discharge Size	4 in
Suction Size	4 in
Max. Sphere Size	0.188 in
Max Operation P.S.I.	360 (special)

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



TURBINE PUMP CURVE

APRIL 2001



IMPELLER DATA

Impeller Number	6808	TRIM: (A) 4.688" X 35
Material	BRONZE	(B) 4.500" X 35
Type	CLOSED	(C) 4.313" X 35
Thrust Factor	K=4.13	
Eye Area	6.88 sq. in.	
Weight	2.65 lb.	Minimum submergence above eye of bottom impeller: 20 in.

FLANGED BOWL DATA

Bowl Number	6818 C.I./ENAM.
Bowl Dia.	5.563"
Max. No. Stages	16
One Stage Weight	75 lb
Add'l Stage Weight	15 lb
Std. Shaft Dia.	1.000 in
Std. Lateral	0.375 in
Discharge Size	4 in
Suction Size	4 in
Max. Sphere Size	0.500 in
Max Operation P.S.I.	360 (special)

EFFICIENCY CORRECTION

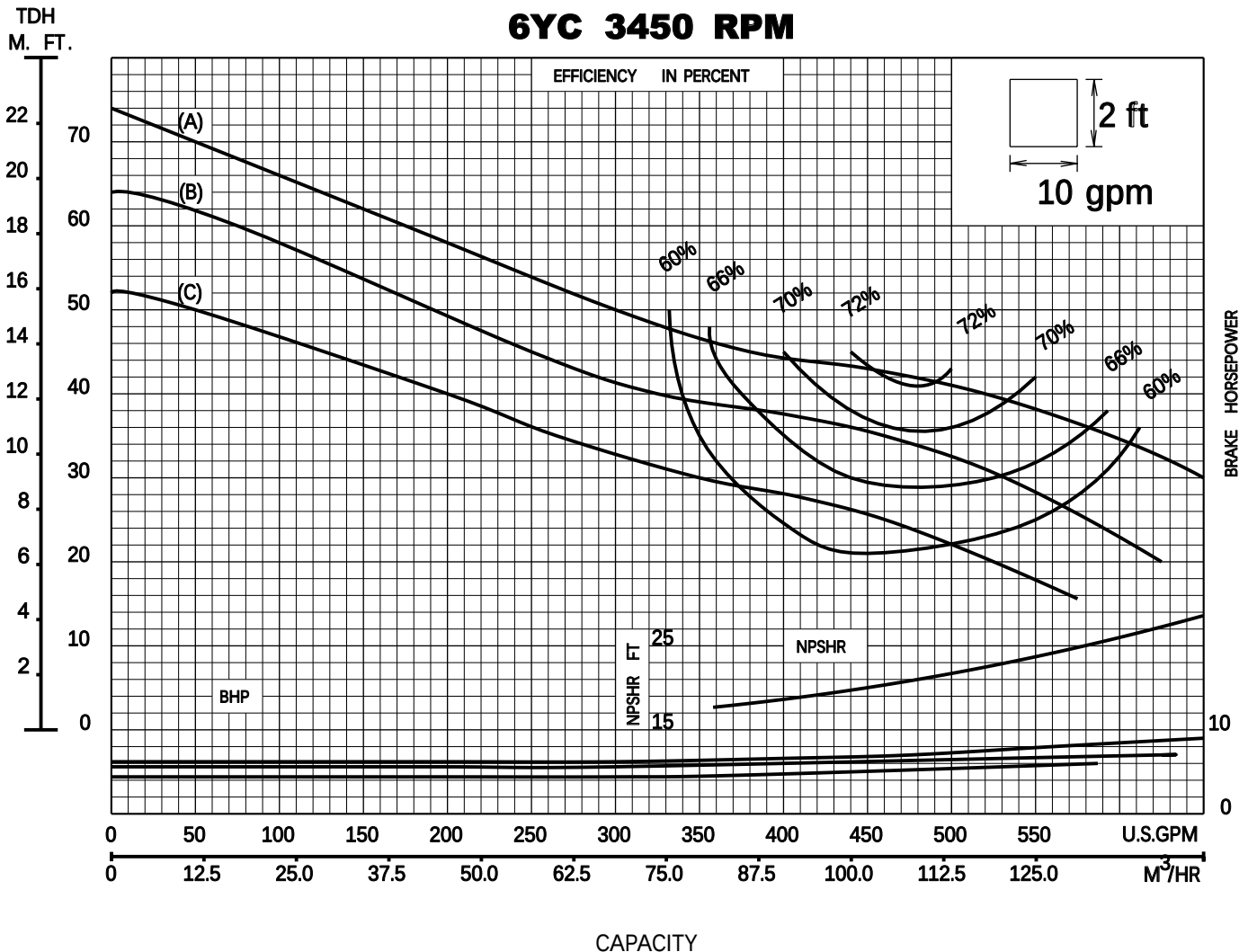
Number of Bowls	1	2	3	4	
Change as follows	-4	-2	-1	0	
Change in efficiency may affect both head and horsepower.					

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



TURBINE PUMP CURVE

APRIL 2001



IMPELLER DATA

Impeller Number	6414	TRIM:	(A) 4.688" X 30
Material	BRONZE		(B) 4.500" X 30
Type	CLOSED		(C) 4.313" X 30
Thrust Factor	K=4.10	Minimum submergence above eye of bottom impeller: 20 in.	
Eye Area	7.51 sq. in.		
Weight	2.35 lb.		

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.				

FLANGED BOWL DATA

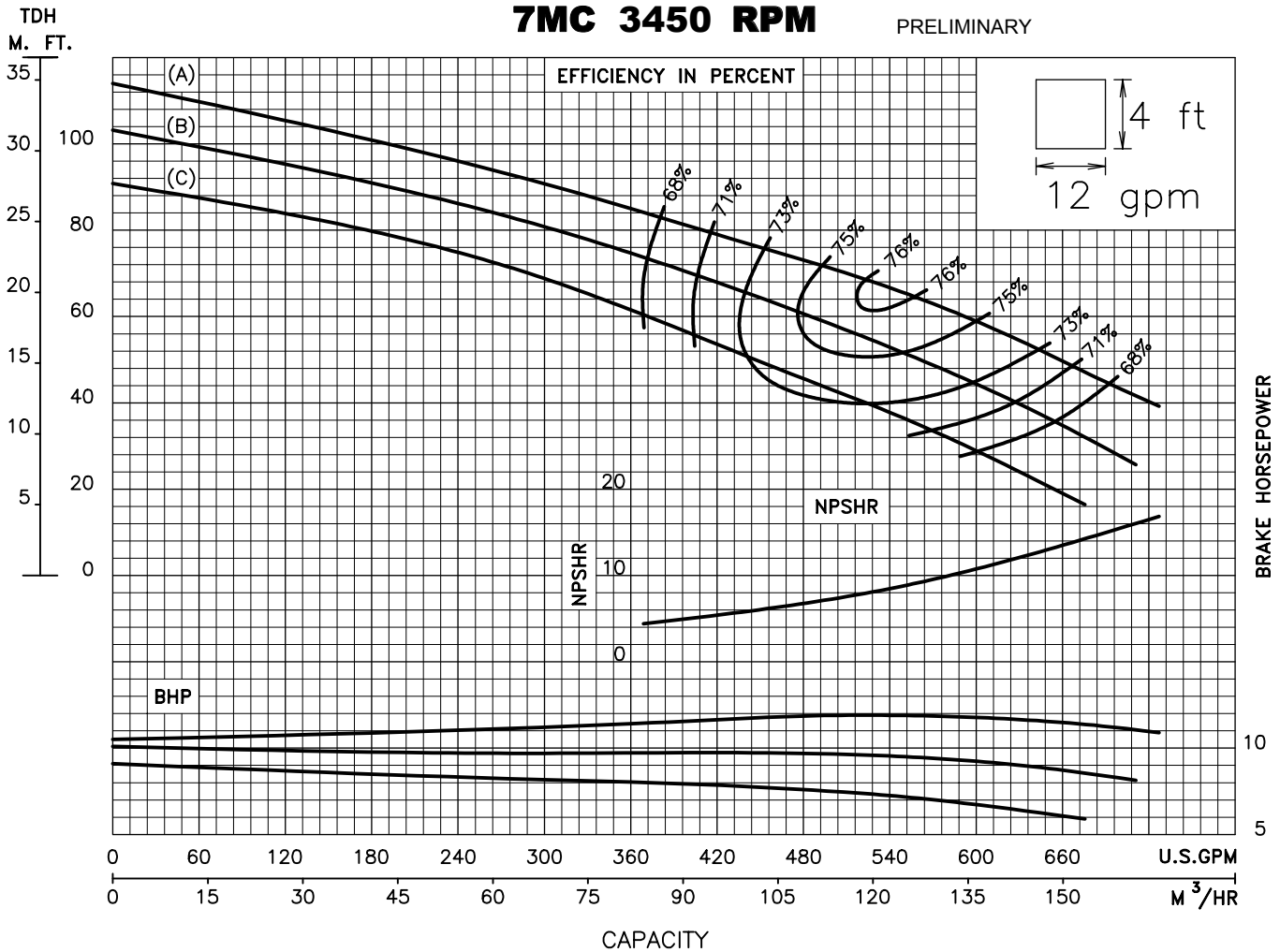
Bowl Number	6818 C.I./ENAM.
Bowl Dia.	5.563"
Max. No. Stages	14
One Stage Weight	75 lb
Add'l Stage Weight	15 lb
Std. Shaft Dia.	1.000 in
Std. Lateral	0.250 in
Discharge Size	4 in
Suction Size	4 in
Max. Sphere Size	0.500 in
Max Operation P.S.I.	360 (special)

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



TURBINE PUMP CURVE

FEBRUARY 2002



IMPELLER DATA				
Impeller Number	7647	TRIM: (A) 5.688" x 18"		
Material	BRONZE	(B) 5.375" x 18"		
Type	CLOSED	(C) 5.125" x 18"		
Thrust Factor	K= 4.5			
Eye Area	11.32 sq. in.			
Weight	5.0 lb.	Minimum submergence above eye of bottom impeller: 18 in.		

EFFICIENCY CORRECTION				
Number of Bowls	1	2	3	
Change as follows	-2	-1	0	

BOWL DATA	
Bowl Number	6947 C.I./ENAM.
Bowl Dia.	7.313"max 7.125"min
Max. No. Stages	15
One Stage Weight	102 lb
Add'l Stage Weight	37 lb
Std. Shaft Dia.	1.188 in
Std. Lateral	0.625 in
Discharge Size	5-6 in
Suction Size	5-6 in
Max. Sphere Size	0.750 in
Max Operation P.S.I.	692 (special)

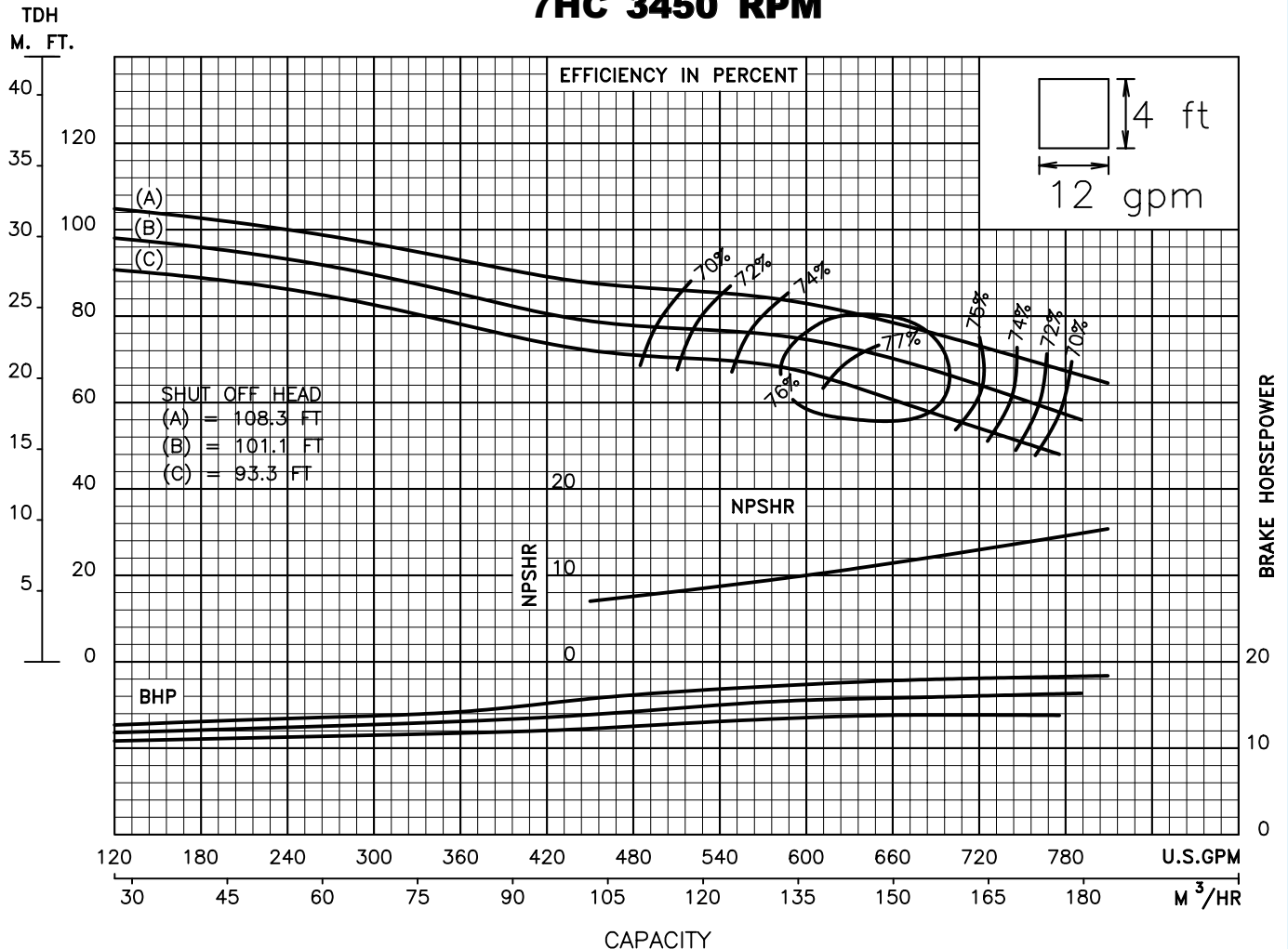
Performance based on pumping clear, fresh water at a temperature not over 85° F., and free of gas, air or abrasives, and with bowls properly adjusted and submerged.



TURBINE PUMP CURVE

June 2004

7HC 3450 RPM



IMPELLER DATA

Impeller Number	7656	TRIM: (A) 5.688" x 18°
Material	BRONZE	(B) 5.563" x 18°
Type	CLOSED	(C) 5.375" x 18°
Thrust Factor	K= 4.56	
Eye Area	11.32 sq. in.	
Weight	5.25 lb.	Minimum submergence above eye of bottom impeller: 18 in.

BOWL DATA

Bowl Number	6947 C.I./ENAM.
Bowl Dia.	7.313"max 7.125"min
Max. No. Stages	13
One Stage Weight	102 lb
Add'l Stage Weight	37 lb
Std. Shaft Dia.	1.188 in
Std. Lateral	0.625 in
Discharge Size	5-6 in
Suction Size	5-6 in
Max. Sphere Size	0.750 in
Max Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

Number of Bowls	1	2	3		
Change as follows	-2	-1	0		

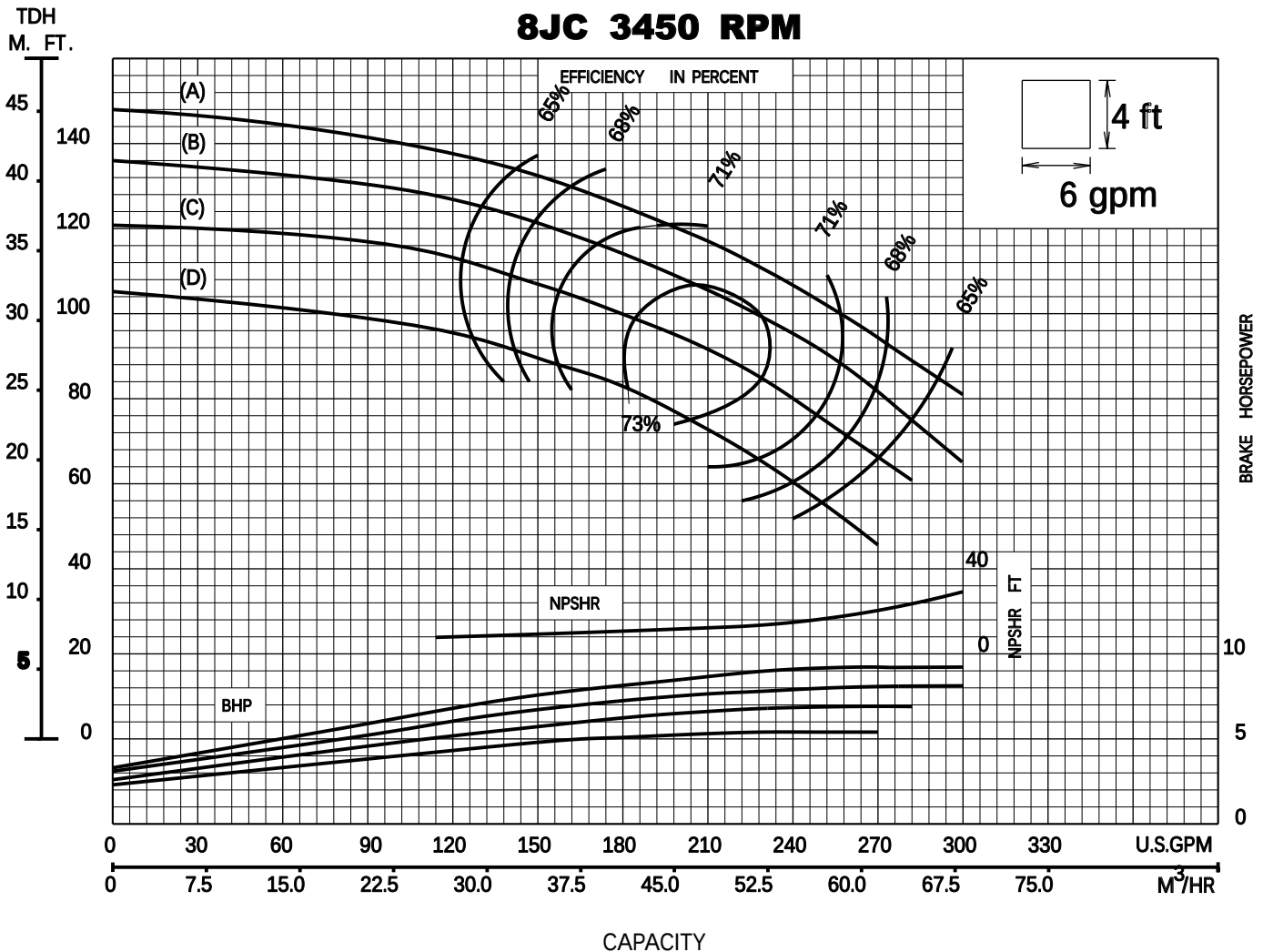
Change in efficiency may affect both head and horsepower.

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



TURBINE PUMP CURVE

FEBRUAR Y 1995



IMPELLER DATA

Impeller Number	3628	TRIM: (A) 6.313" X 0
Material	BRONZE	(B) 6.000" X 0
Type	CLOSED	(C) 5.625" X 0
Thrust Factor	k=2.98	(D) 5.250" X 0
Eye Area	3.65 sq. in.	Minimum submergence above eye of bottom impeller: 18 in.
Weight	5.75 lb.	

BOWL DATA

Bowl Number	3629 C.I./ENAM.
Bowl Dia.	7.813"max 7.500"min
Max. No. Stages	15
One Stage Weight	130 lb
Add'l 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 Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

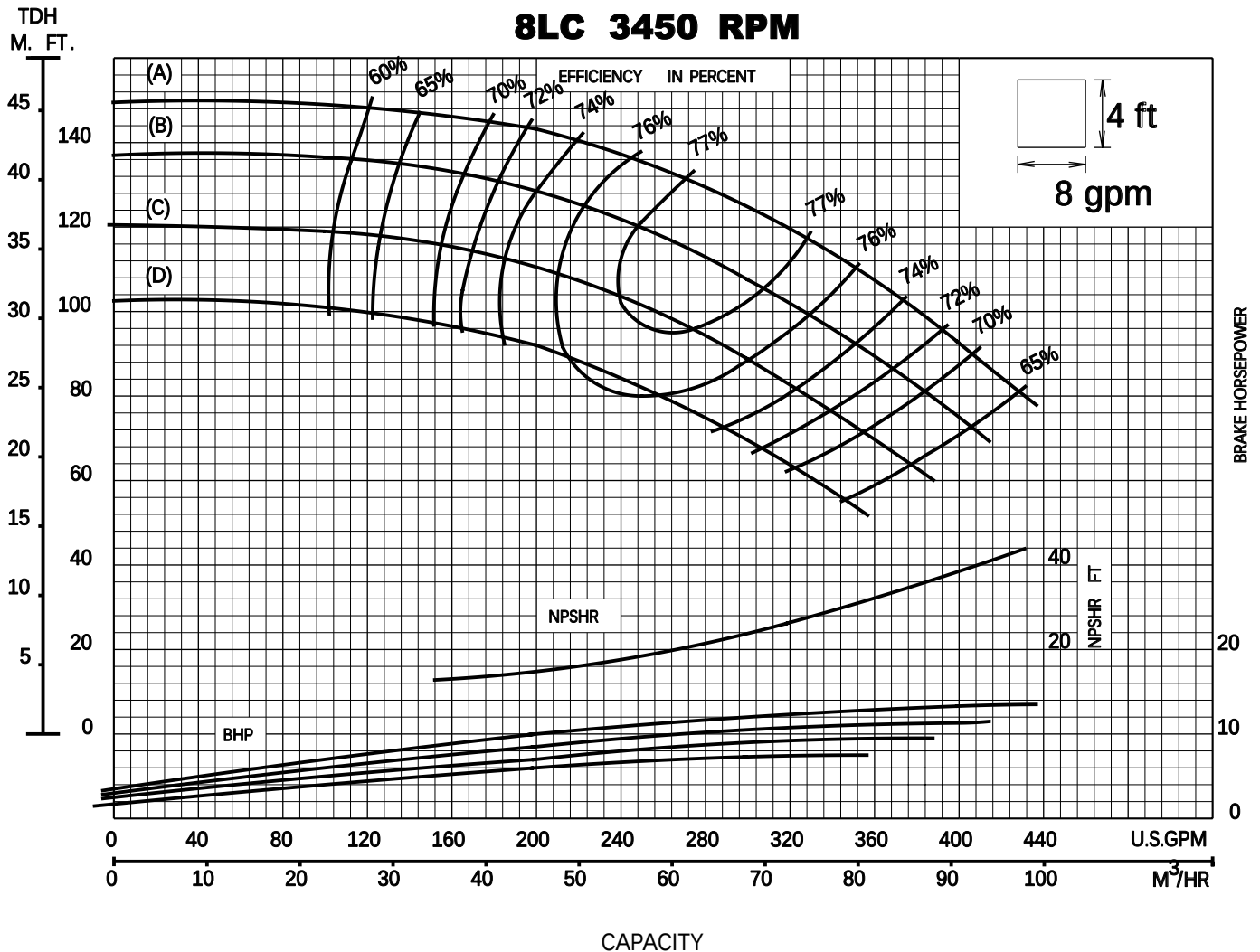
Number of Bowls	1	2	3		
Change as follows	-4	-2	0		
Change in efficiency may affect both head and horsepower.					

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



TURBINE PUMP CURVE

JANUAR Y 1995



IMPELLER DATA

Impeller Number	3630	TRIM: (A) 6.313" X 0°
Material	BRONZE	(B) 6.000" X 0°
Type	CLOSED	(C) 5.625" X 0°
Thrust Factor	K=2.98	(D) 5.250" X 0°
Eye Area	4.64 sq. in.	Minimum submergence above eye of bottom impeller 18 in.
Weight	5.75 lb.	

BOWL DATA

Bowl Number	3629 C.I./ENAM.
Bowl Dia.	7.813"max 7.500"min
Max. No. Stages	12
One Stage Weight	130 lb
Add'l 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 Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

Number of Bowls	1	2	3		
Change as follows	-4	-2	0		

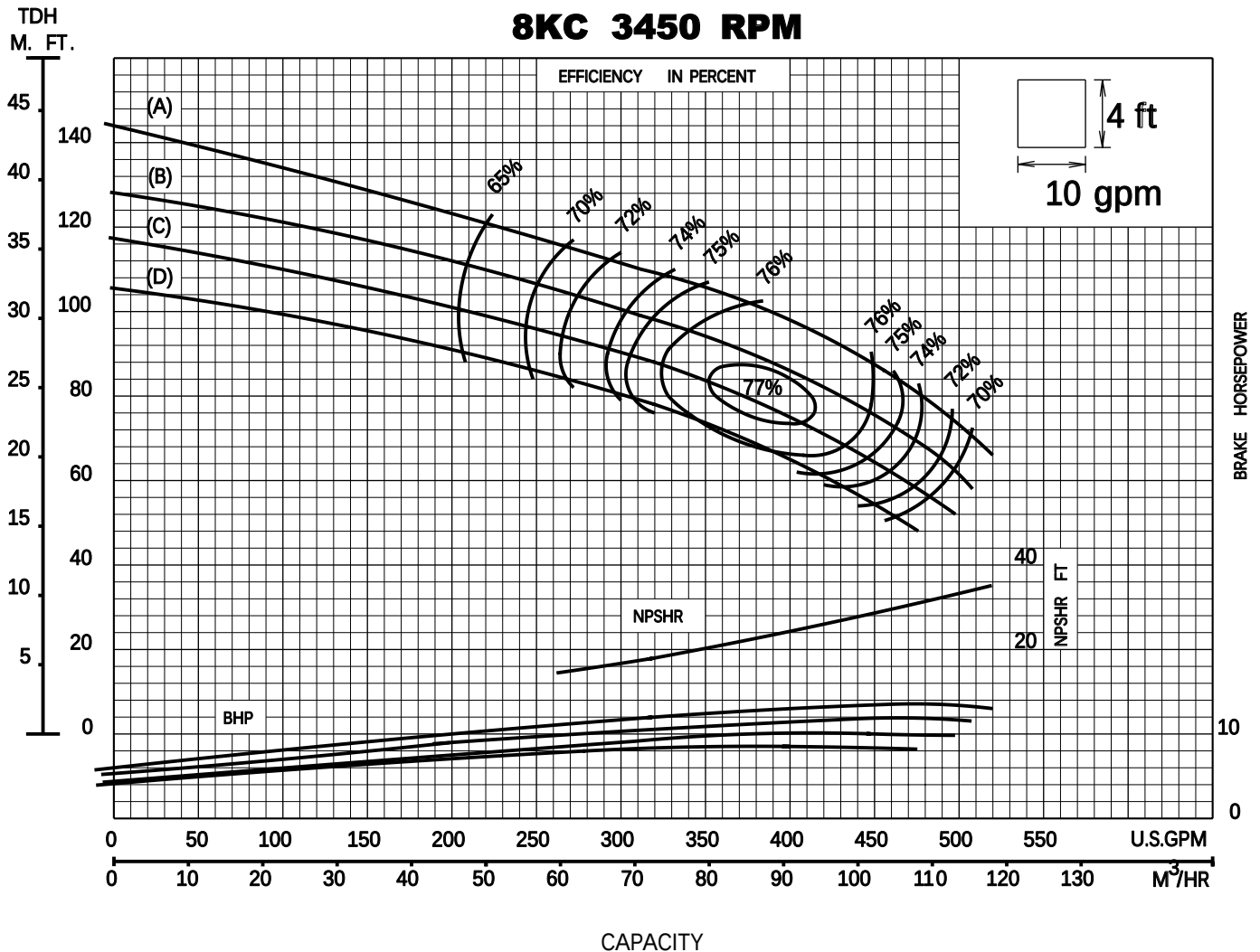
Change in efficiency may affect both head and horsepower.

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



TURBINE PUMP CURVE

JANUARY 1995



IMPELLER DATA

Impeller Number	3680	TRIM:	(A) 6.313" X 18°
Material	BRONZE		(B) 6.000" X 18°
Type	CLOSED		(C) 5.750" X 18°
Thrust Factor	K=3.93		(D) 5.500" X 18°
Eye Area	5.72 sq. in.	Minimum submergence above eye of bottom impeller: 18 in.	
Weight	5.50 lb.		

BOWL DATA

Bowl Number	3591 C.I./ENAM.
Bowl Dia.	7.938"max 7.500"min
Max. No. Stages	10
One Stage Weight	130 lb
Add'l 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 Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

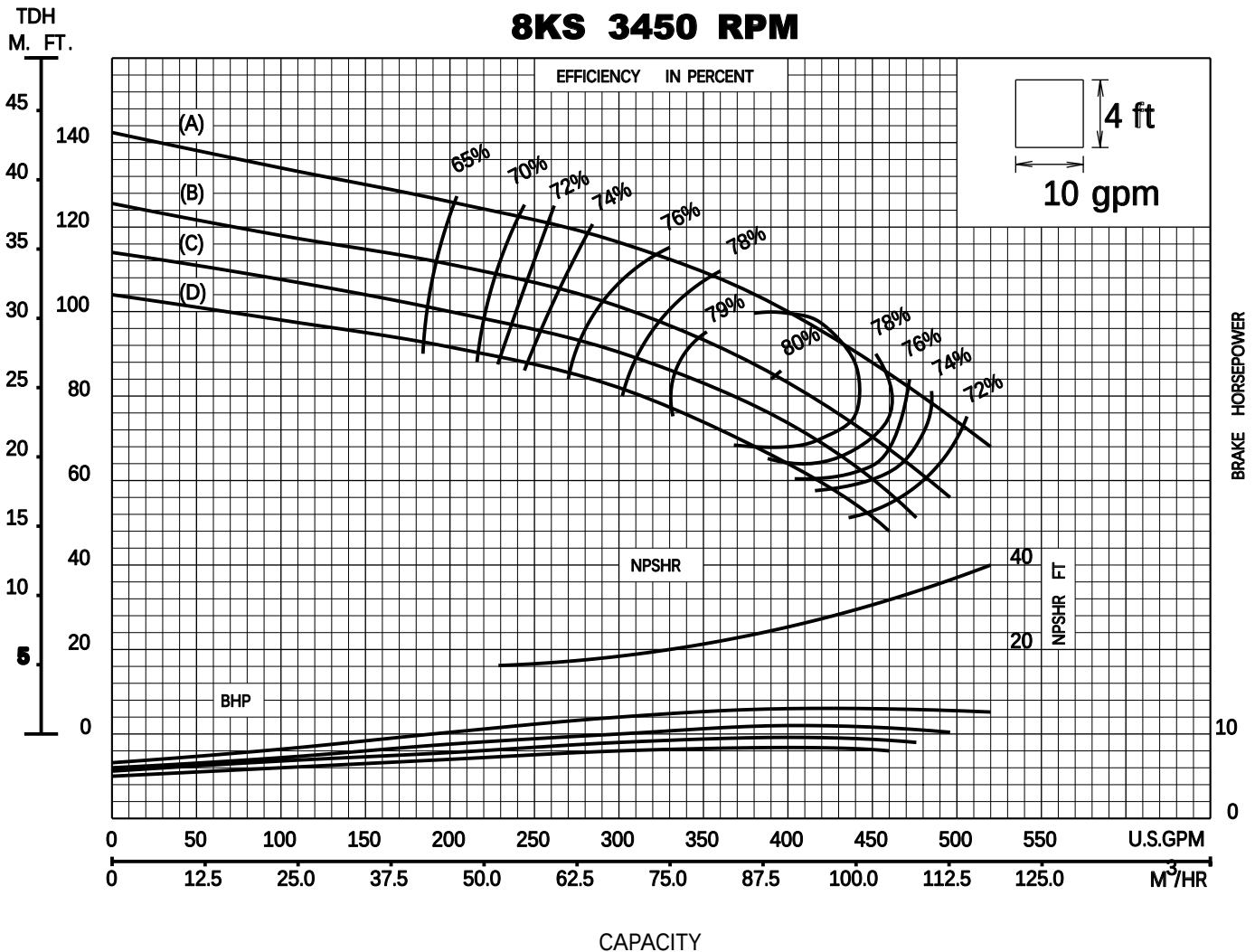
Number of Bowls	1	2	3		
Change as follows	-4	-2	0		
Change in efficiency may affect both head and horsepower.					

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



TURBINE PUMP CURVE

FEBRUAR Y 1995



IMPELLER DATA

Impeller Number	3693	TRIM: (A) 6.313" X 18
Material	BRONZE	(B) 6.000" X 18
Type	SEMI-OPEN	(C) 5.750" X 18
Thrust Factor	K=4.42	(D) 5.500" X 18
Eye Area	6.60 sq. in.	Minimum submergence above eye of top impeller: 20 in.
Weight	3.75 lb.	

BOWL DATA

Bowl Number	3591-S.C.I./ENAM.
Bowl Dia.	7.938"max 7.500"min
Max. No. Stages	10
One Stage Weight	130 lb
Add'l 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 Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

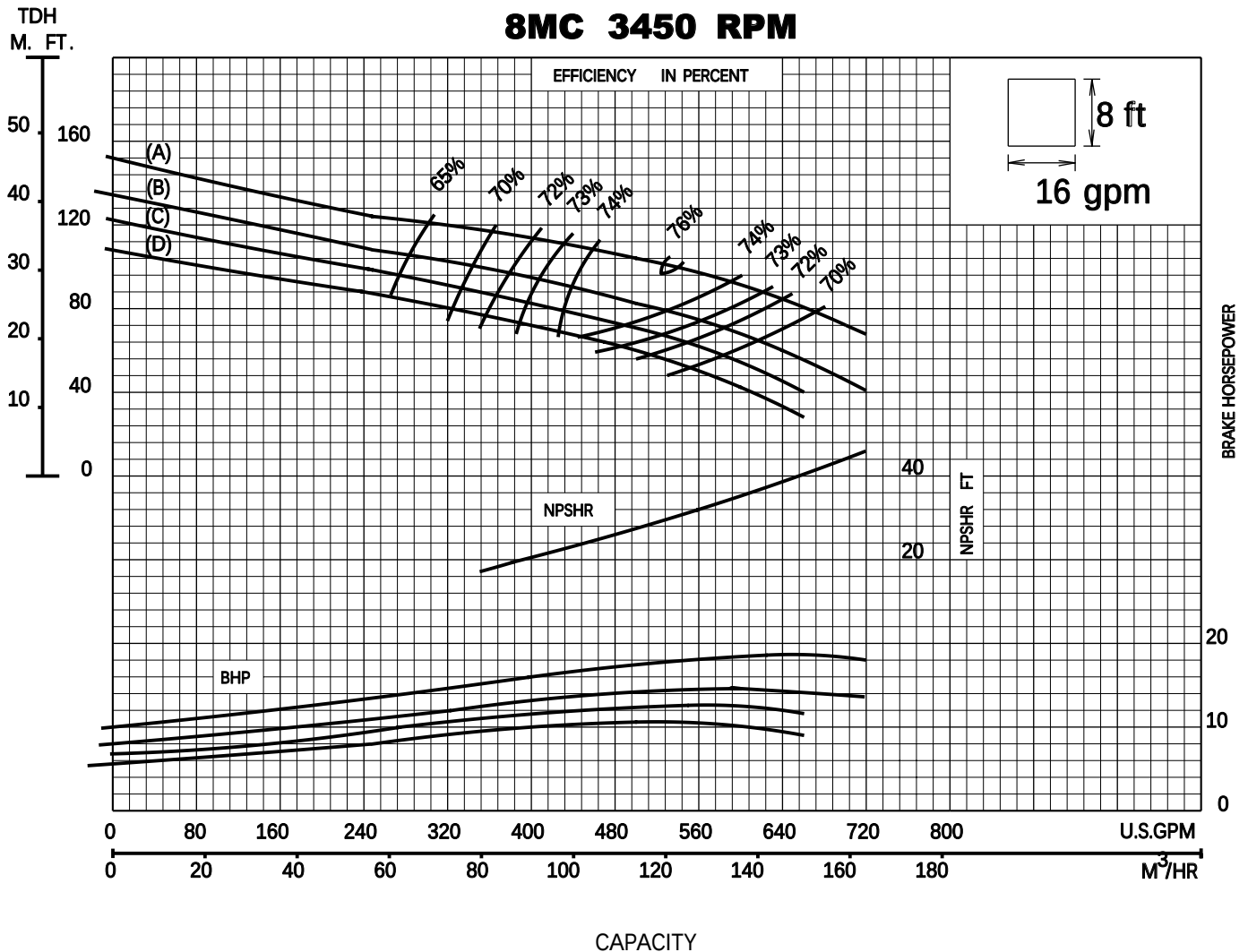
Number of Bowls	1	2	3		
Change as follows	-4	-2	0		
Change in efficiency may affect both head and horsepower.					

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



TURBINE PUMP CURVE

JANUAR Y 1995



IMPELLER DATA

Impeller Number	3589	TRIM:	(A) 6.313" X 27.5°
Material	BRONZE		(B) 6.000" X 27.5°
Type	CLOSED		(C) 5.750" X 27.5°
Thrust Factor	K=3.93		(D) 5.500" X 27.5°
Eye Area	6.50 sq. in.	Minimum submergence above eye of bottom impeller 22 in.	
Weight	5.00 lb.		

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.					

BOWL DATA

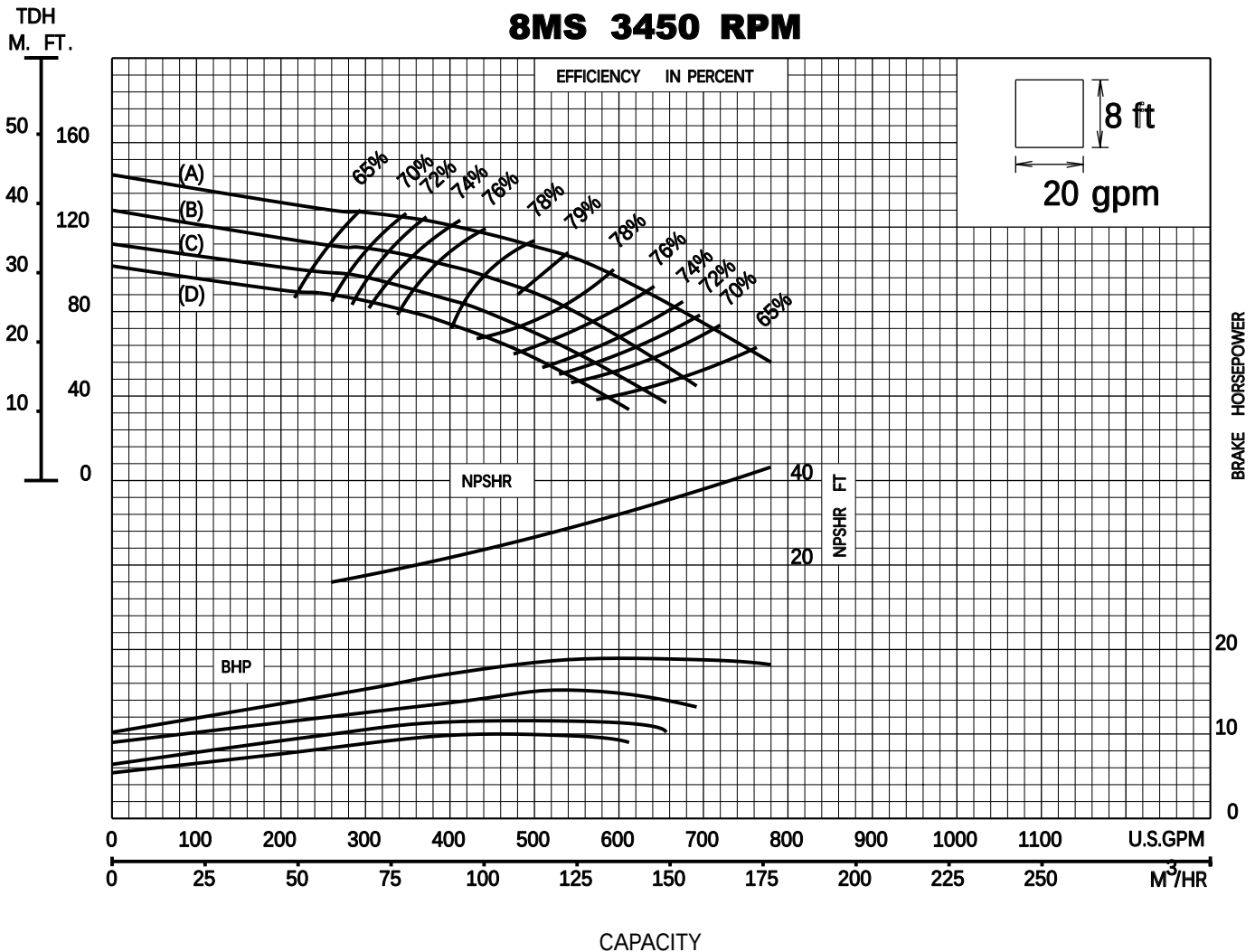
Bowl Number	3591 C.I./ENAM.
Bowl Dia.	7.938"max 7.500"min
Max. No. Stages	8
One Stage Weight	130 lb
Add'l Stage Weight	30 lb
Std. Shaft Dia.	1.000 in
Std. Lateral	0.438 in
Discharge Size	5 - 6 in
Suction Size	5 - 6 in
Max. Sphere Size	0.375 in
Max Operation P.S.I.	692 (special)

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



TURBINE PUMP CURVE

FEBRUAR Y 1995



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 top impeller: 24 in.
Weight	4.125 lb.	

BOWL DATA

Bowl Number	3591-S.C.I./ENAM.
Bowl Dia.	7.938" max 7.500" min
Max. No. Stages	7
One Stage Weight	130 lb
Add'l 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 Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

Number of Bowls	1	2	3	4	5
Change as follows	-4	-3	-2	-1	0

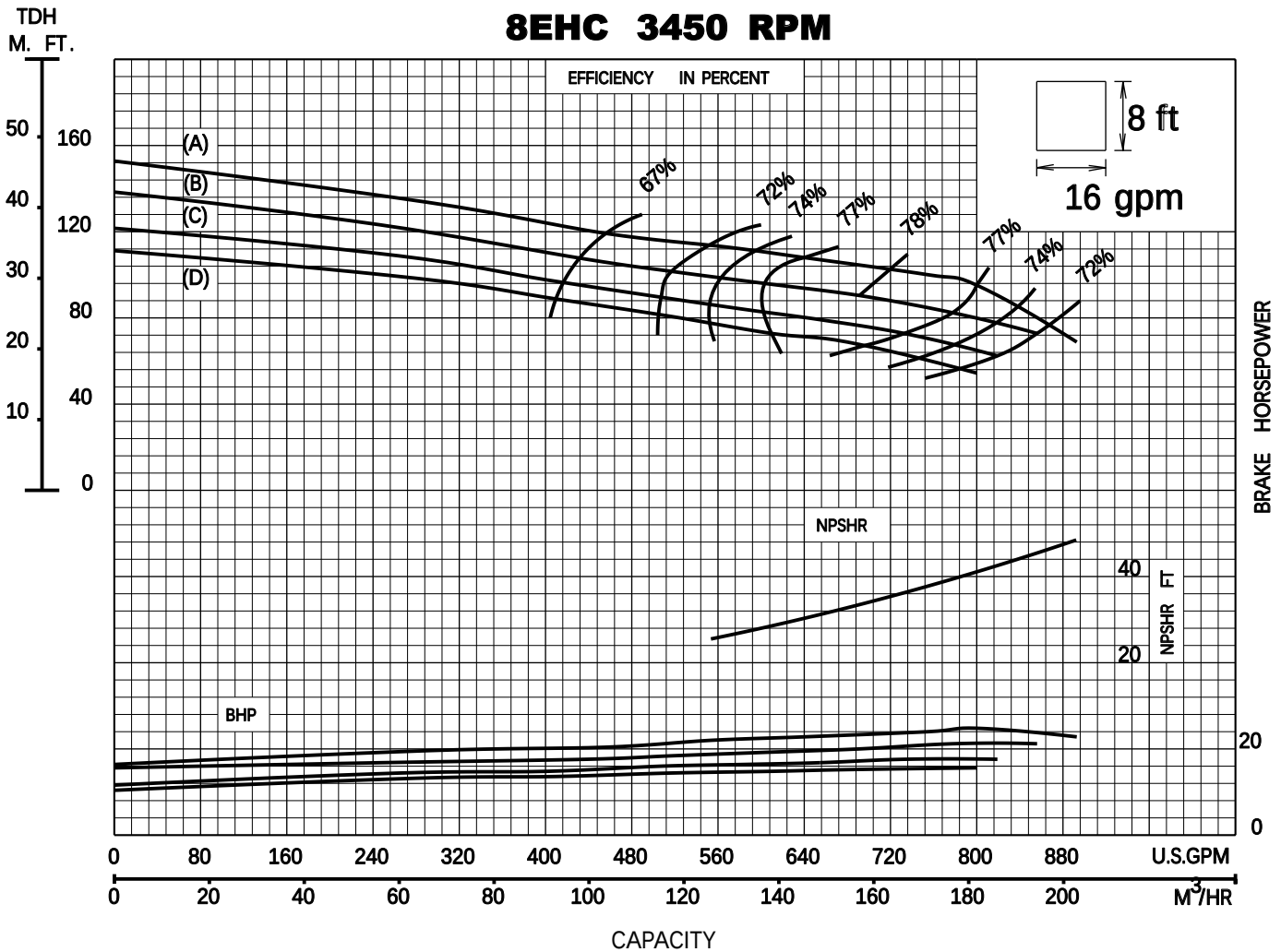
Change in efficiency may affect both head and horsepower.

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



TURBINE PUMP CURVE

MAY 1995



IMPELLER DATA

Impeller Number	2978	TRIM: (A) 6.313" X 29.5
Material	BRONZE	(B) 6.000" X 29.5
Type	CLOSED	(C) 5.750" X 29.5
Thrust Factor	K=5.40	(D) 5.500" X 29.5
Eye Area	8.33 sq. in.	Minimum submergence above eye of bottom impeller: 22 in.
Weight	5.00 lb.	

BOWL DATA

Bowl Number	2883 C.I./ENAM.
Bowl Dia.	7.938" max 7.500" min
Max. No. Stages	5
One Stage Weight	130 lb
Add'l 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 Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

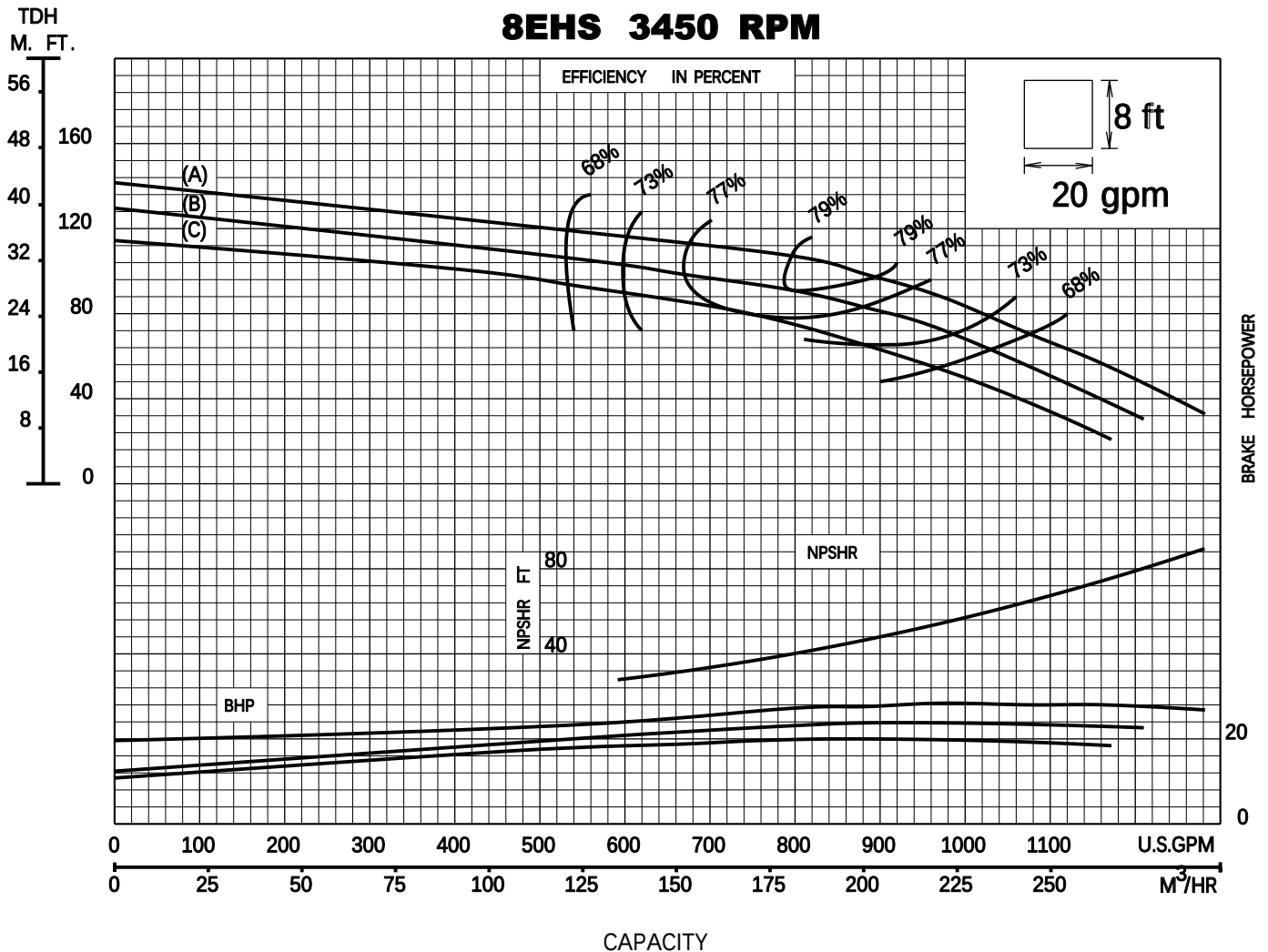
Number of Bowls	1	2	3	4
Change as follows	-3	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

MAY 1995



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.	
Weight	3.25 lb.	Minimum submergence above eye of top impeller: 24 in.

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.					

BOWL DATA

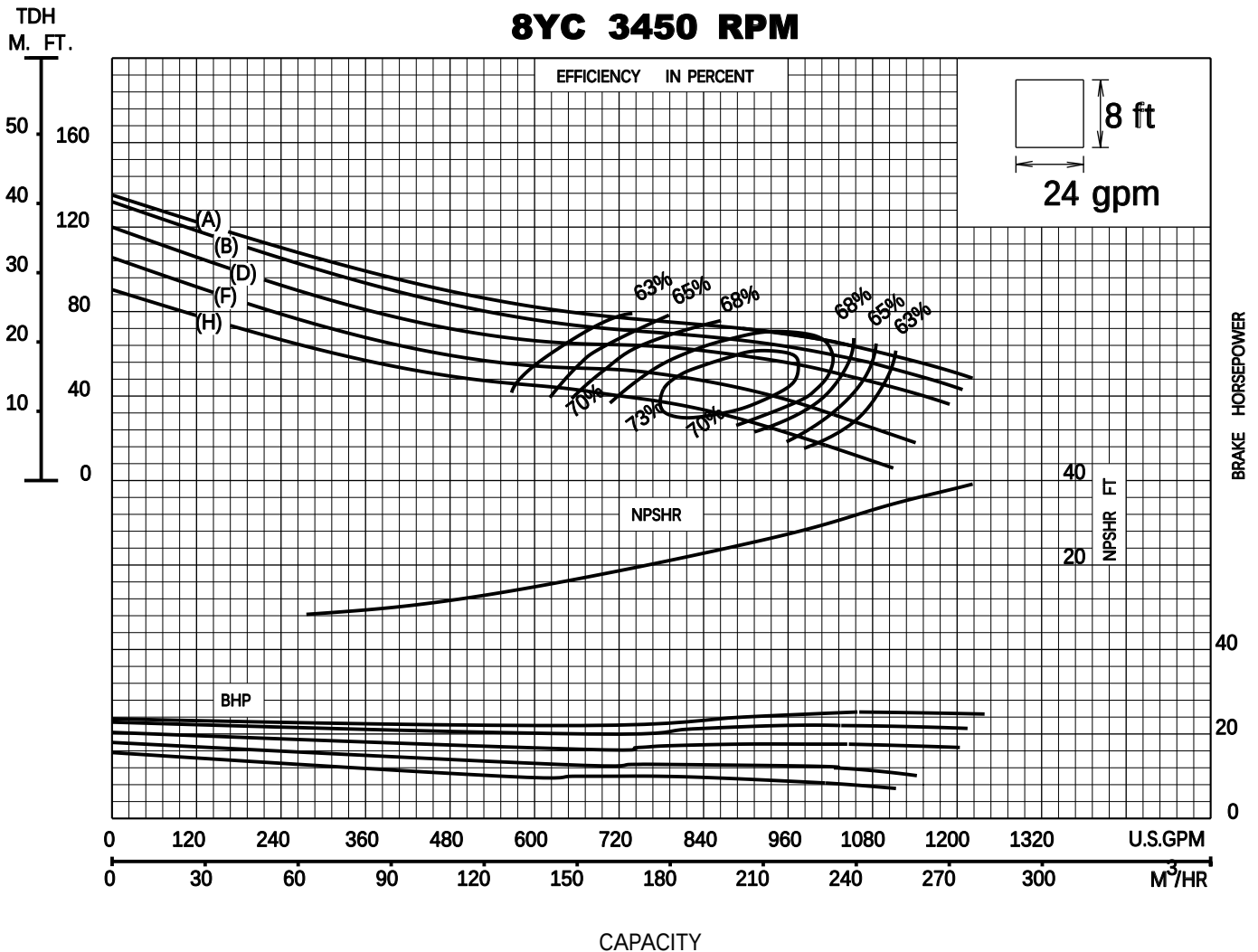
Bowl Number	2883 C.I./ENAM.
Bowl Dia.	7.938"max 7.500"min
Max. No. Stages	4
One Stage Weight	130 lb
Add'l Stage Weight	30 lb
Std. Shaft Dia.	1.000 in
Std. Lateral	0.375 in
Discharge Size	5 - 6 in
Suction Size	5 - 6 in
Max. Sphere Size	0.625 in
Max Operation P.S.I.	692 (special)

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



TURBINE PUMP CURVE

JANUAR Y 2001



IMPELLER DATA

Impeller Number	5502	TRIM: (A) 6.365" X 37°
Material	BRONZE	(B) 6.250" X 37°
Type	CLOSED	(D) 6.000" X 37°
Thrust Factor	K=8.00	(F) 5.750" X 37°
Eye Area	15.90 sq. in.	(H) 5.500" X 37°
Weight	5.25 lb.	Minimum submergence above eye of bottom impeller: 28 in.

BOWL DATA

Bowl Number	5503 C.I./ENAM.
Bowl Dia.	7.938"max 7.500"min
Max. No. Stages	9
One Stage Weight	139 lb
Add'l Stage Weight	39 lb
Std. Shaft Dia.	1.188 in
Std. Lateral	0.375 in
Discharge Size	5 - 6 in
Suction Size	5 - 6 in
Max. Sphere Size	1.125 in
Max Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

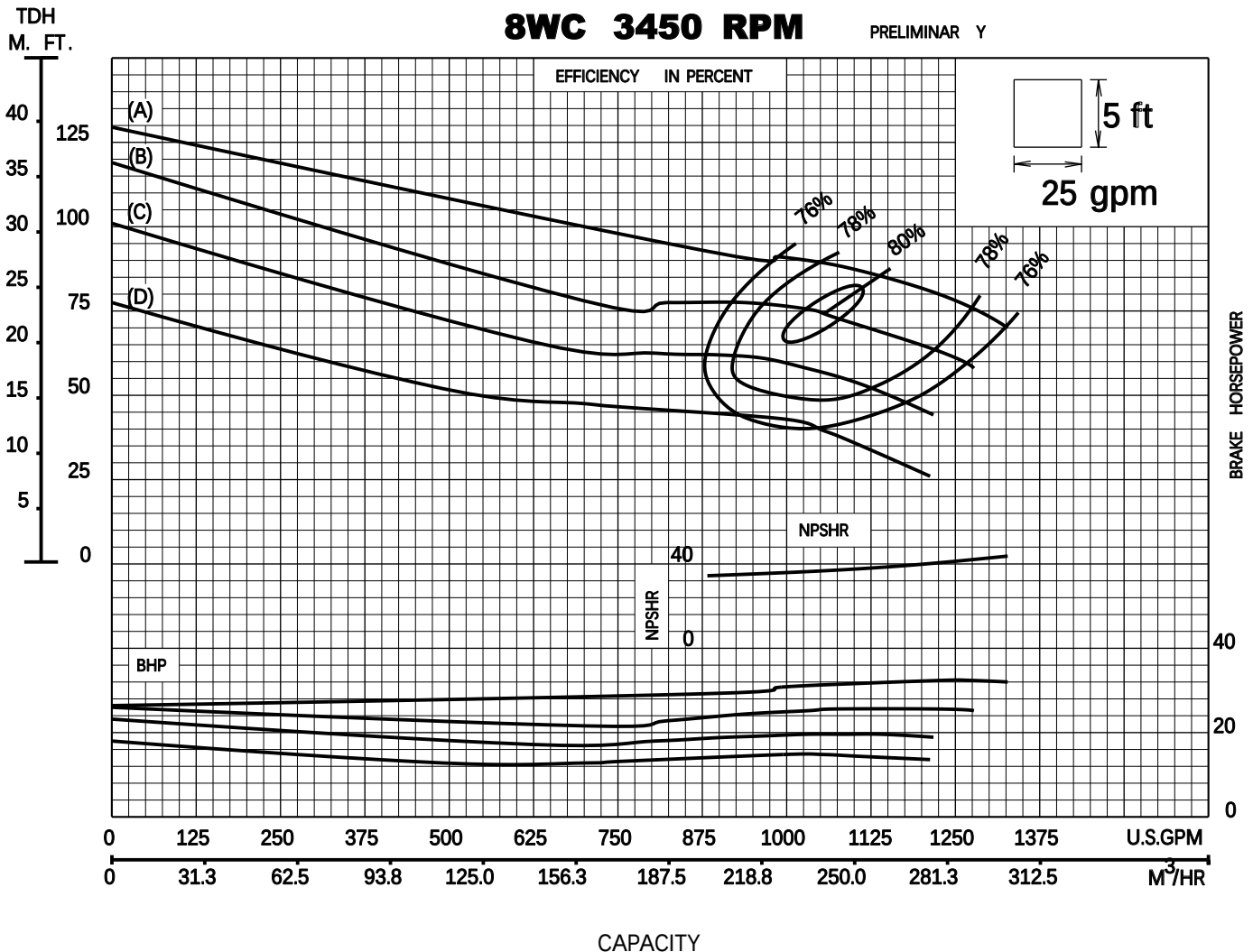
Number of Bowls	1	2	3	4
Change as follows	-3	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

SEPTEMBER 1999



IMPELLER DATA

Impeller Number	3050	TRIM: (A) 6.313" X 27°
Material	BRONZE	(B) 6.000" X 27°
Type	CLOSED	(C) 5.688" X 27°
Thrust Factor	K= 6.20	(D) 5.375" X 27°
Eye Area	17.20 sq. in.	Minimum submergence above eye of bottom impeller: 28 in.
Weight	6.50 lb.	

THREADED BOWL DATA

Bowl Number	3169 C.I./ENAM.
Bowl Dia.	7.750"max 7.625"min
Max. No. Stages	7
One Stage Weight	88 lb
Add'l Stage Weight	39 lb
Std. Shaft Dia.	1.188 in
Std. Lateral	0.438 in
Discharge Size	5 - 6 in
Suction Size	5 - 6 in
Max. Sphere Size	1.125 in
Max Operation P.S.I.	692 (special)

EFFICIENCY CORRECTION

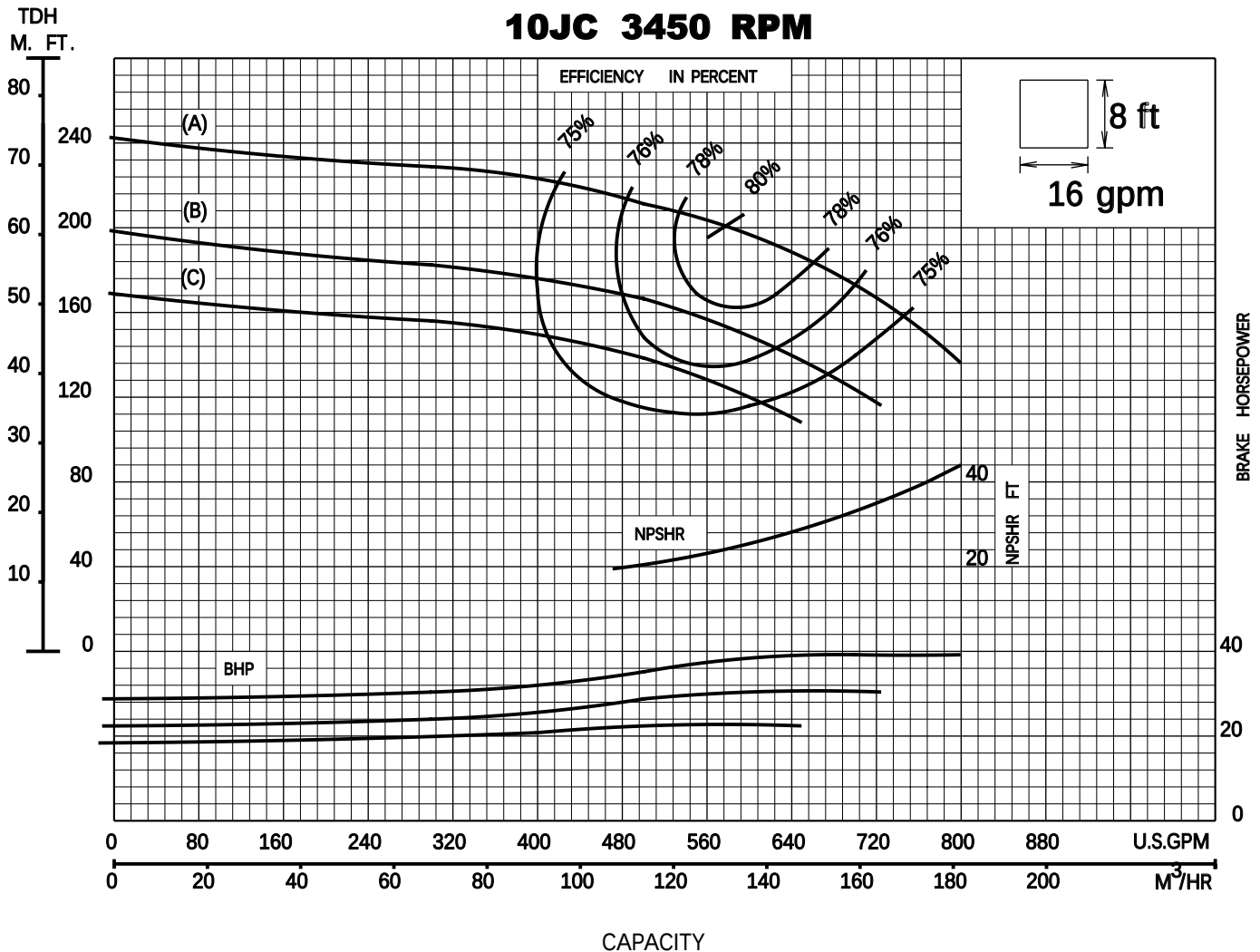
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

JUL Y 1997



IMPELLER DATA

Impeller Number	3094	TRIM: (A) 7.725" X 25.5°
Material	BRONZE	(B) 7.203" X 25.5°
Type	CLOSED	(C) 6.797" X 25.5°
Thrust Factor	K=3.98	
Eye Area	7.89 sq. in.	
Weight	9.25 lb.	

Minimum submergence
above eye of bottom
impeller 32 in.

EFFICIENCY CORRECTION

Number of Bowls	1	2	3	4	5
Change as follows	-5	-4	-3	-1	0

Change in efficiency may affect both head and horsepower.

BOWL DATA

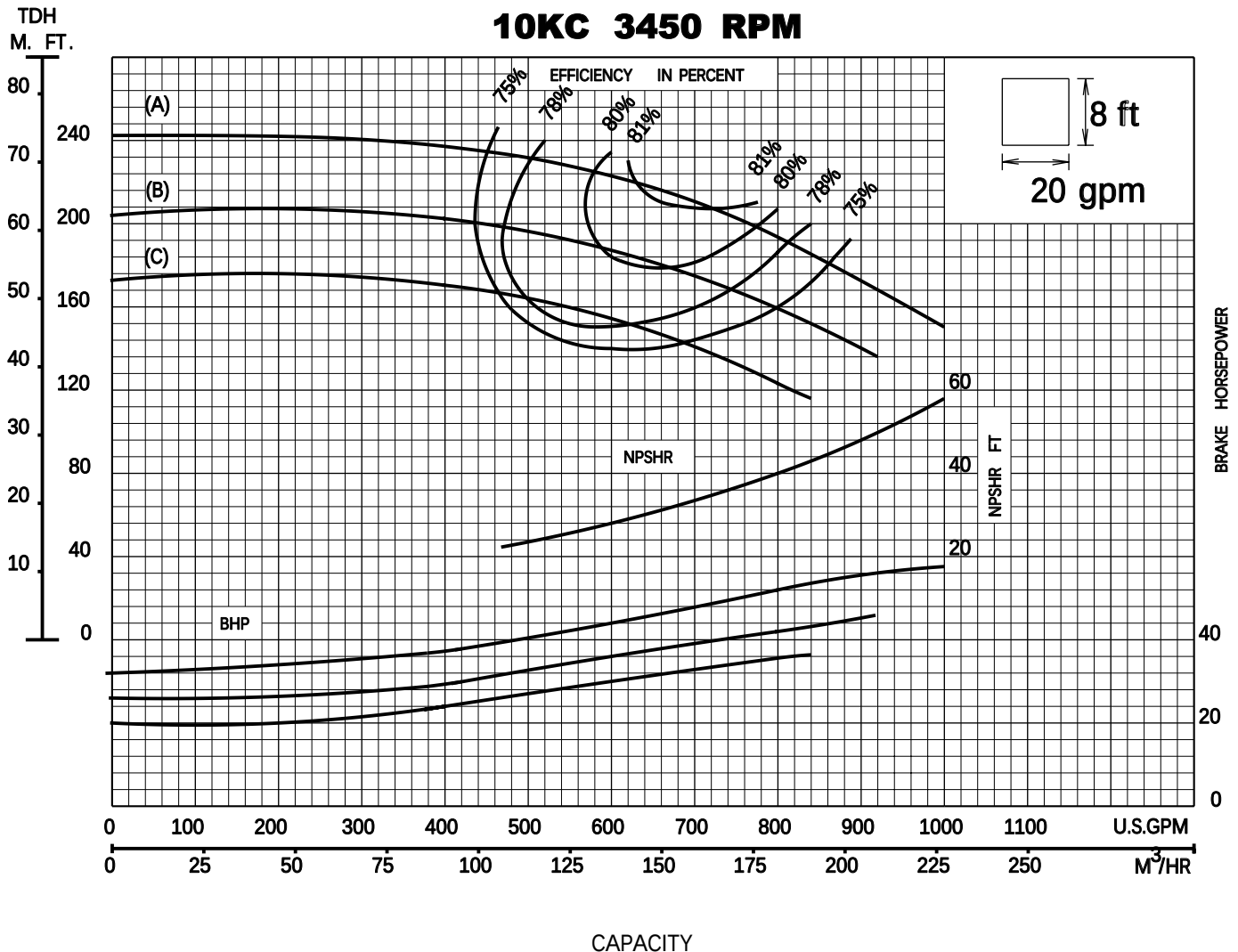
Bowl Number	3096 C.I./ENAM.
Bowl Dia.	9.875"max 9.500"min
Max. No. Stages	13
One Stage Weight	230 lb
Add'l Stage Weight	55 lb
Std. Shaft Dia.	1.500 in
Std. Lateral	0.500 in
Discharge Size	6 - 8 in
Suction Size	6 - 8 in
Max. Sphere Size	0.438 in
Max Operation P.S.I.	595 (special)

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



TURBINE PUMP CURVE

DECEMBER 1996



IMPELLER DATA

Impeller Number	3095	TRIM: (A) 7.725" X 25.5°
Material	BRONZE	(B) 7.203" X 25.5°
Type	CLOSED	(C) 6.797" X 25.5°
Thrust Factor	K=4.20	
Eye Area	7.89 sq. in.	
Weight	9.50 lb.	

Minimum submergence
above eye of bottom
impeller: 32 in.

EFFICIENCY CORRECTION

Number of Bowls	1	2	3	4	5
Change as follows	-5	-4	-3	-1	0

Change in efficiency may affect both head and horsepower.

BOWL DATA

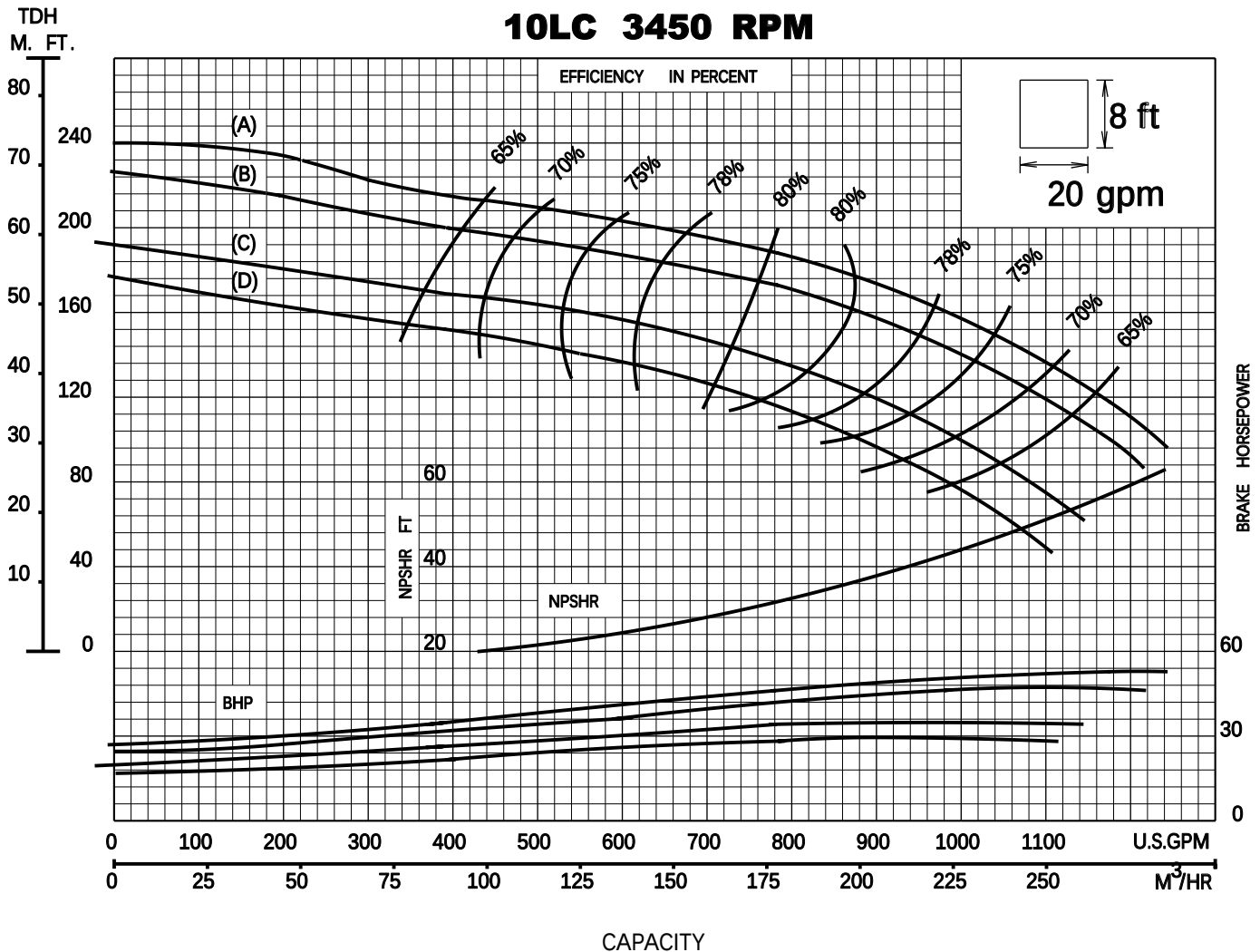
Bowl Number	3096 C.I./ENAM.
Bowl Dia.	9.875"max 9.500"min
Max. No. Stages	9
One Stage Weight	230 lb
Add'l Stage Weight	55 lb
Std. Shaft Dia.	1.500 in
Std. Lateral	0.500 in
Discharge Size	6 - 8 in
Suction Size	6 - 8 in
Max. Sphere Size	0.438 in
Max Operation P.S.I.	595 (special)

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



TURBINE PUMP CURVE

JANUAR Y 1995



IMPELLER DATA

Impeller Number	3102	TRIM: (A) 7.688" X 20° (B) 7.500" X 20° (C) 7.125" X 20° (D) 6.875" X 20°
Material	BRONZE	
Type	CLOSED	
Thrust Factor	K=6.60	
Eye Area	10.17 sq. in.	Minimum submergence above eye of bottom impeller: 36 in.
Weight	9.75 lb.	

BOWL DATA

Bowl Number	3098 C.I./ENAM.
Bowl Dia.	9.500"max 9.250"min
Max. No. Stages	13
One Stage Weight	230 lb
Add'l 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 Operation P.S.I.	595 (special)

EFFICIENCY CORRECTION

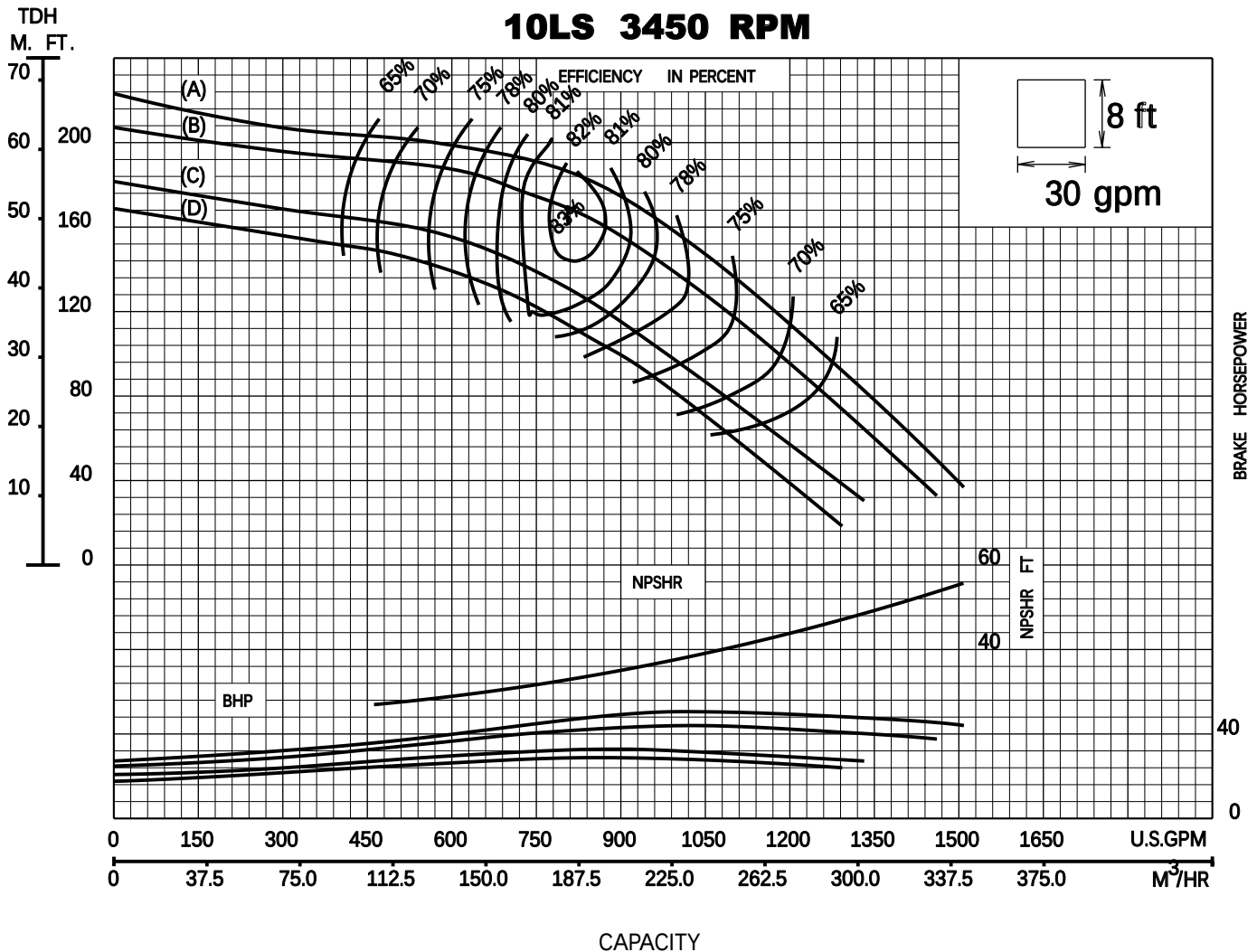
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

FEBRUAR Y 1995



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 top impeller: 38 in.
Weight	6.25 lb.	

BOWL DATA

Bowl Number	3098-S.C.I./ENAM.
Bowl Dia.	9.500" max 9.250" min
Max. No. Stages	10
One Stage Weight	230 lb
Add'l 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 Operation P.S.I.	595 (special)

EFFICIENCY CORRECTION

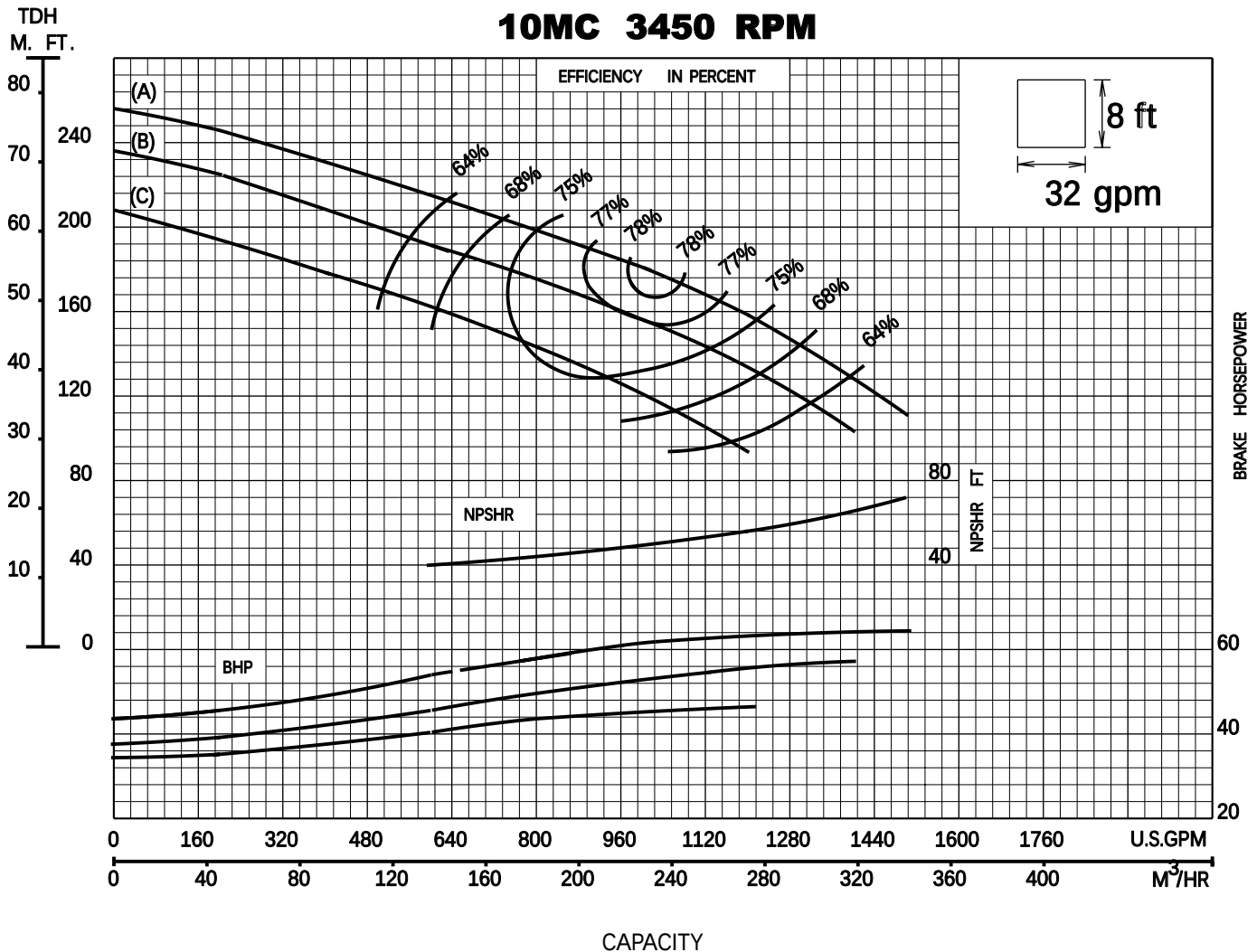
Number of Bowls	1	2	3	4
Change as follows	-4	-2	-1	0
Change in efficiency may affect both head and horsepower.				

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



TURBINE PUMP CURVE

AUGUST 1997



IMPELLER DATA

Impeller Number	3097	TRIM: (A) 7.688" X 26°
Material	BRONZE	(B) 7.500" X 26°
Type	CLOSED	(C) 7.125" X 26°
Thrust Factor	K=6.60	
Eye Area	11.74 sq. in.	
Weight	8.50 lb.	Minimum submergence above eye of bottom impeller: 36 in.

EFFICIENCY CORRECTION

Number of Bowls	1	2	3	4
Change as follows	-5	-2	-1	0

Change in efficiency may affect both head and horsepower.

BOWL DATA

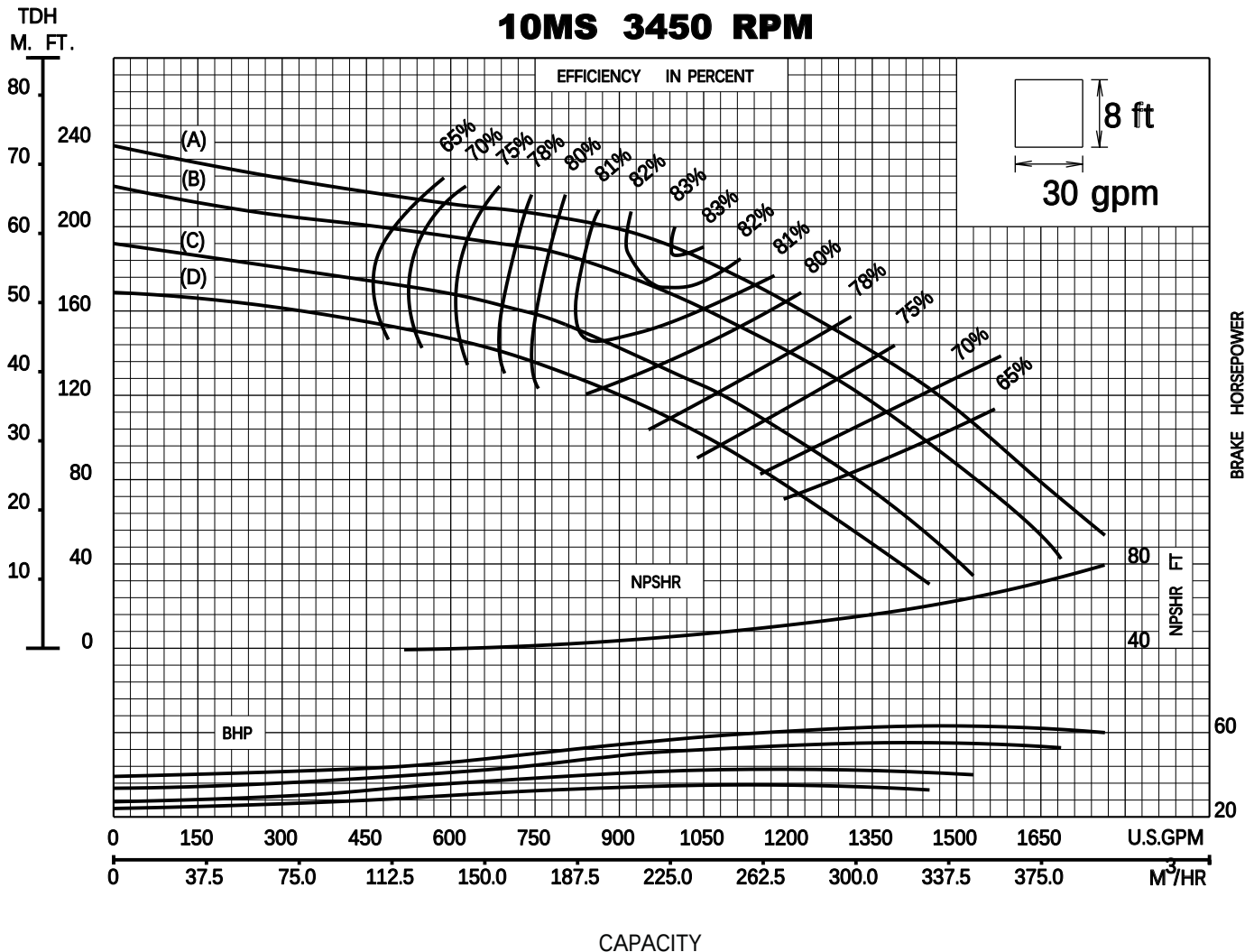
Bowl Number	3098 C.I./ENAM.
Bowl Dia.	9.500"max 9.250"min
Max. No. Stages	8
One Stage Weight	230 lb
Add'l Stage Weight	55 lb
Std. Shaft Dia.	1.500 in
Std. Lateral	0.625 in
Discharge Size	6 - 8 in
Suction Size	6 - 8 in
Max. Sphere Size	0.625 in
Max Operation P.S.I.	595 (special)

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



TURBINE PUMP CURVE

FEBRUAR Y 1995



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 top impeller 38 in.
Weight	5.75 lb.	

BOWL DATA

Bowl Number	3098-S.C.I./ENAM.
Bowl Dia.	9.500" max 9.250" min
Max. No. Stages	8
One Stage Weight	230 lb
Add'l 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 Operation P.S.I.	595 (special)

EFFICIENCY CORRECTION

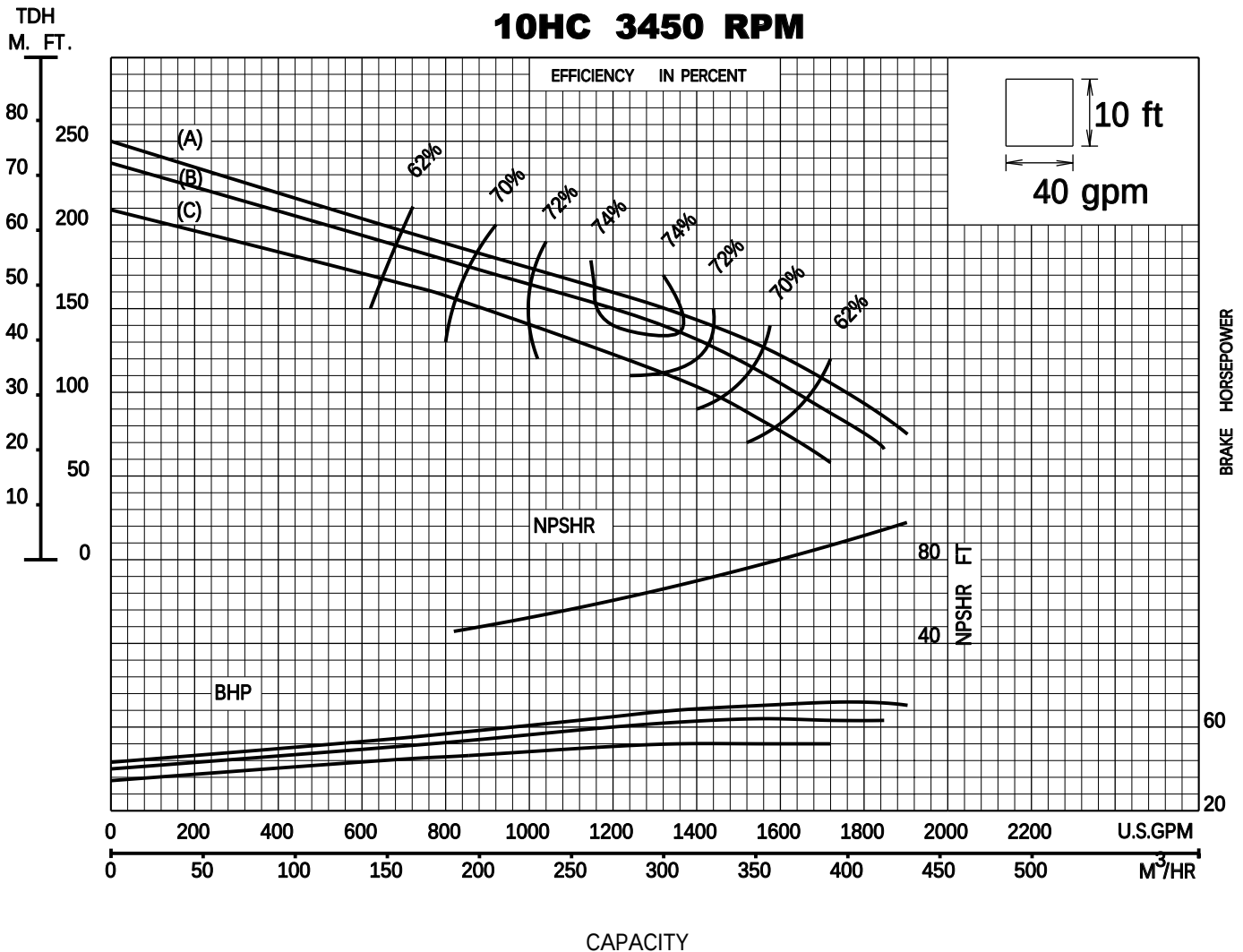
Number of Bowls	1	2	3	4	
Change as follows	-4	-2	-1	0	
Change in efficiency may affect both head and horsepower.					

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



TURBINE PUMP CURVE

MAY 1995



IMPELLER DATA

Impeller Number	2967	TRIM: (A) 7.688" X 27
Material	BRONZE	(B) 7.500" X 27
Type	CLOSED	(C) 7.125" X 27
Thrust Factor	K=8.10	
Eye Area	14.90 sq. in.	
Weight	8.50 lb.	Minimum submergence above eye of bottom impeller: 39 in.

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.				

BOWL DATA

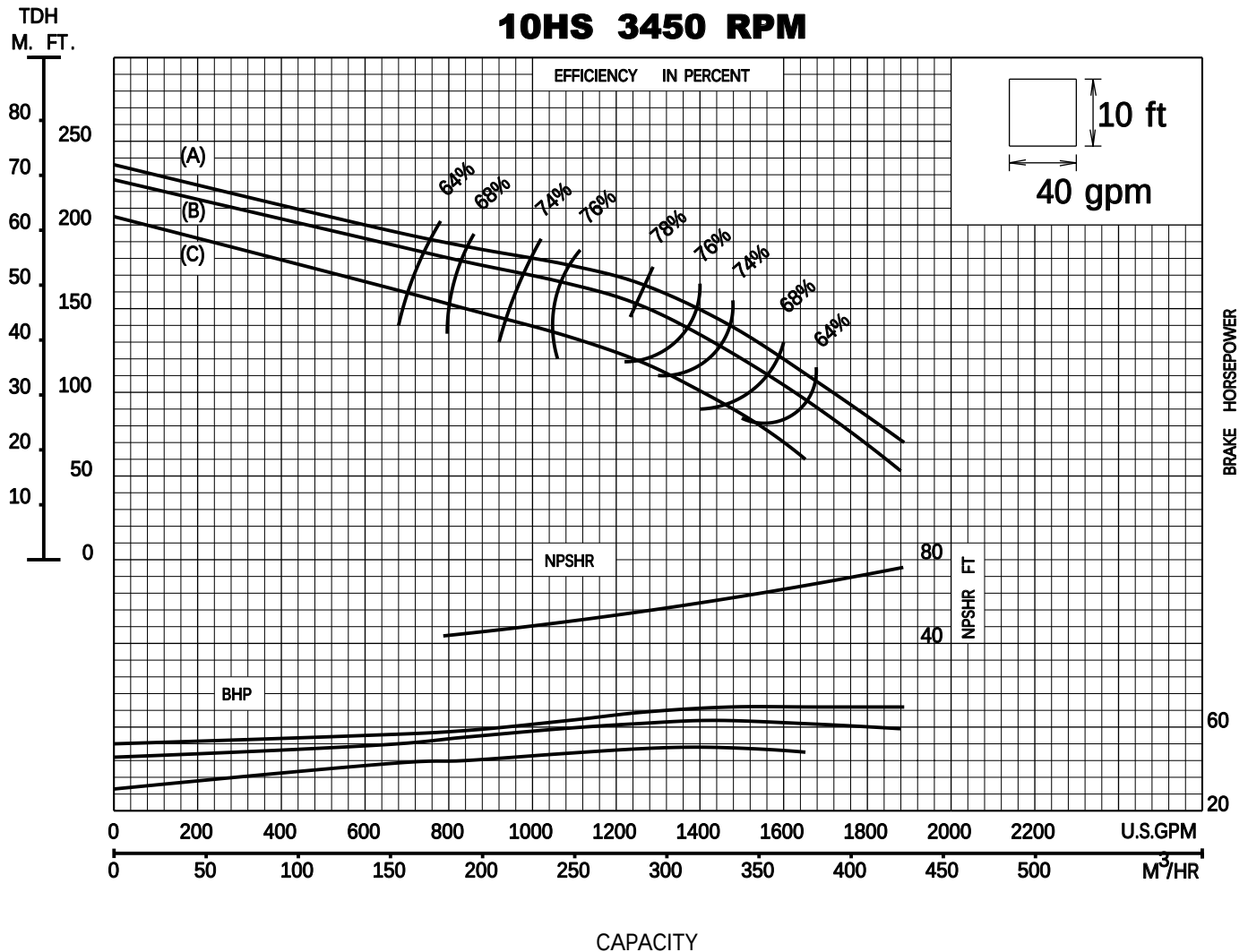
Bowl Number	2968 C.I./ENAM.
Bowl Dia.	9.500"max 9.250"min
Max. No. Stages	7
One Stage Weight	230 lb
Add'l Stage Weight	55 lb
Std. Shaft Dia.	1.500 in
Std. Lateral	0.625 in
Discharge Size	6 - 8 in
Suction Size	6 - 8 in
Max. Sphere Size	0.500 in
Max Operation P.S.I.	595 (special)

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



TURBINE PUMP CURVE

MAY 1995



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.	
Weight	5.25 lb.	Minimum submergence above eye of top impeller: 41 in.

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.				

BOWL DATA

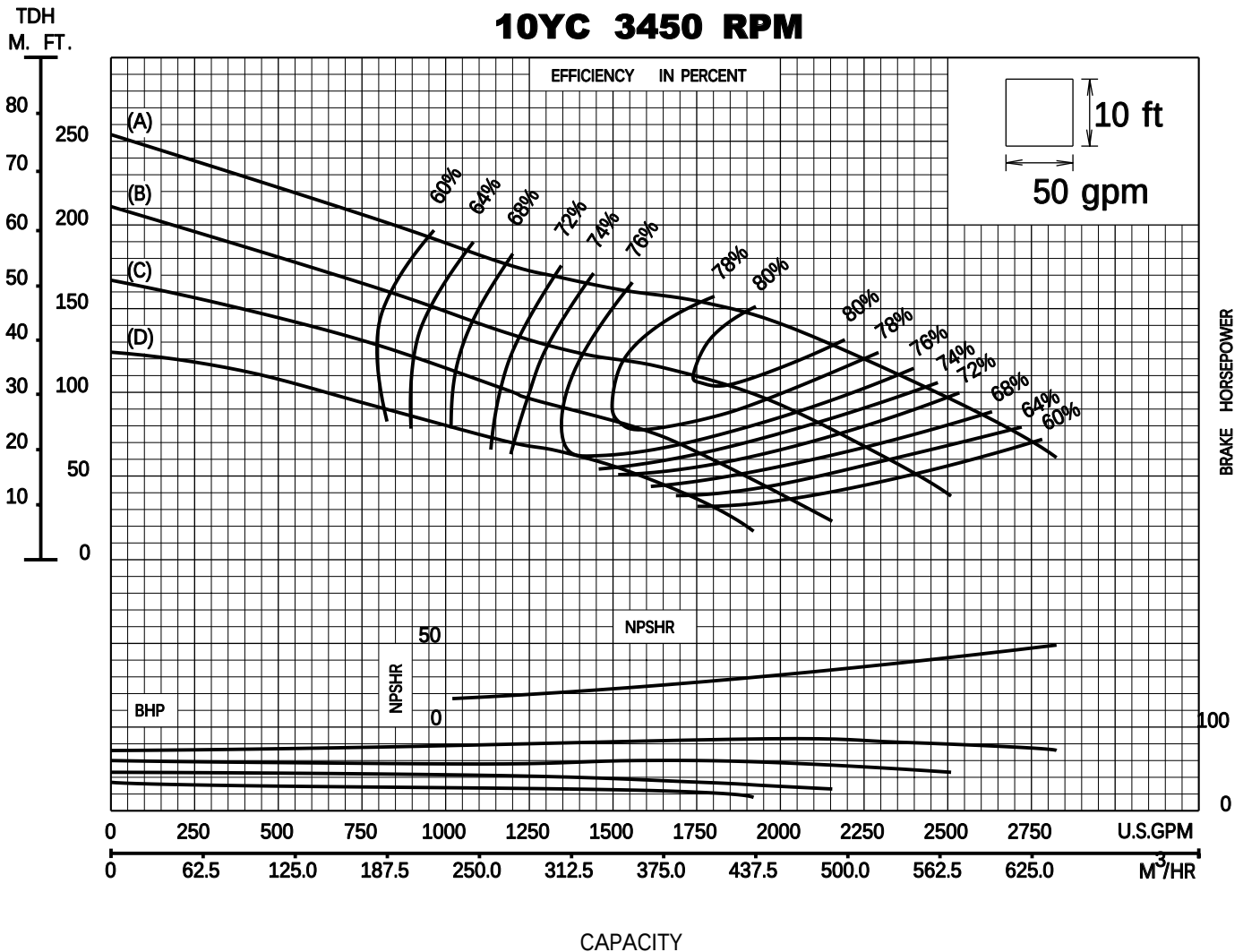
Bowl Number	2968-S.C.I./ENAM.
Bowl Dia.	9.500"max 9.250"min
Max. No. Stages	7
One Stage Weight	230 lb
Add'l Stage Weight	55 lb
Std. Shaft Dia.	1.500 in
Std. Lateral	0.625 in
Discharge Size	6 - 8 in
Suction Size	6 - 8 in
Max. Sphere Size	0.500 in
Max Operation P.S.I.	595 (special)

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



TURBINE PUMP CURVE

APRIL 1999



IMPELLER DATA

Impeller Number	3540	TRIM:	(A) 8.250" X 33.25°
Material	BRONZE		(B) 7.500" X 33.25°
Type	CLOSED		(C) 6.750" X 33.25°
Thrust Factor	K=10.30	Minimum submergence above eye of bottom impeller 40 in.	
Eye Area	19.40 sq. in.		
Weight	11.00 lb.		

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.				

BOWL DATA

Bowl Number	3541 C.I./ENAM.
Bowl Dia.	9.875"max 9.500"min
Max. No. Stages	8
One Stage Weight	250 lb
Add'l 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 Operation P.S.I.	455 (special)

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