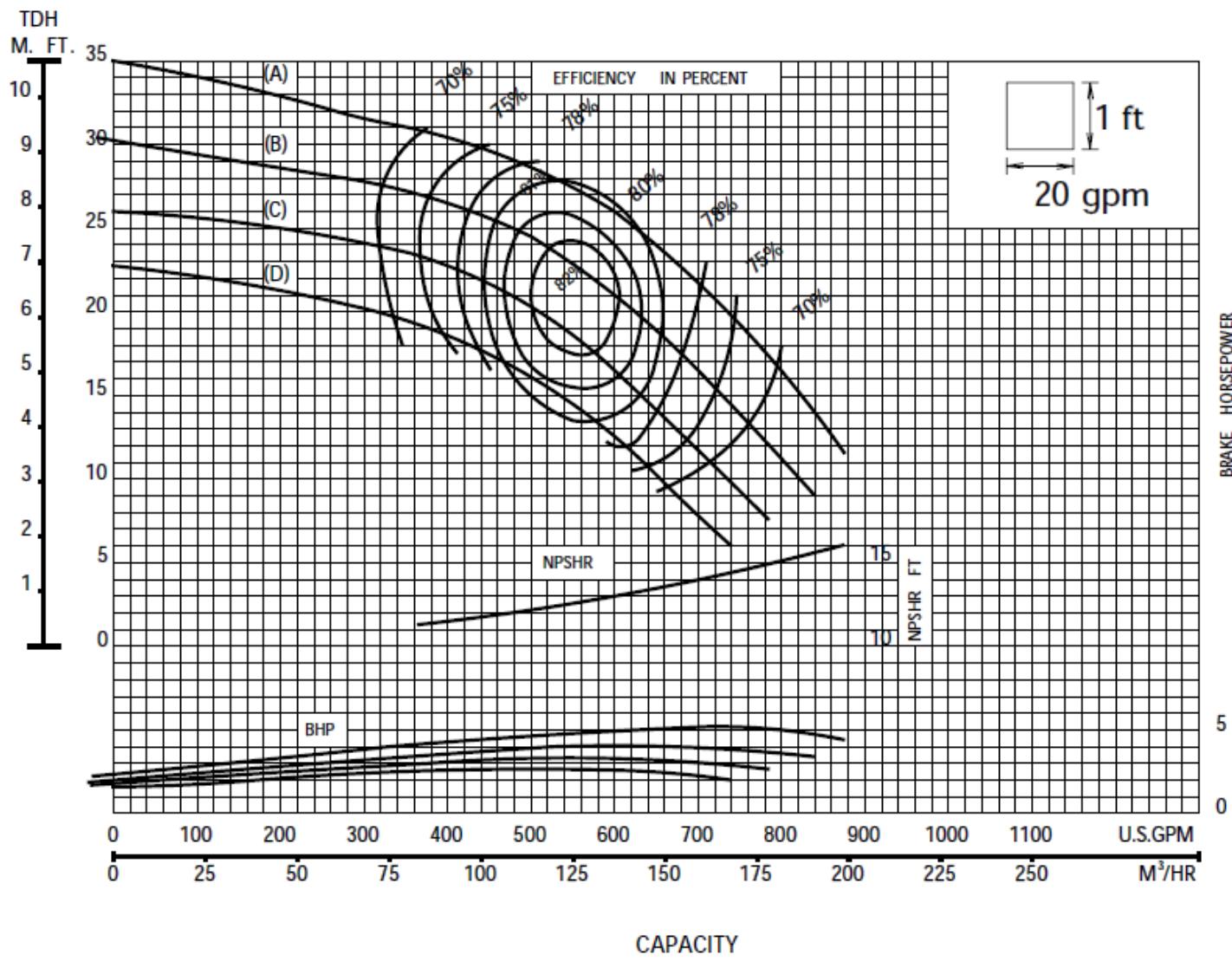


Wilo-Vertical Turbine Pump Curve

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W12LS

1160 RPM



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		
EYE AREA	20.10 SQ. IN.		Minimum submergence above eye of bottom impeller: .30 IN.
WEIGHT	8.130 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	22
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 IN.
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.					

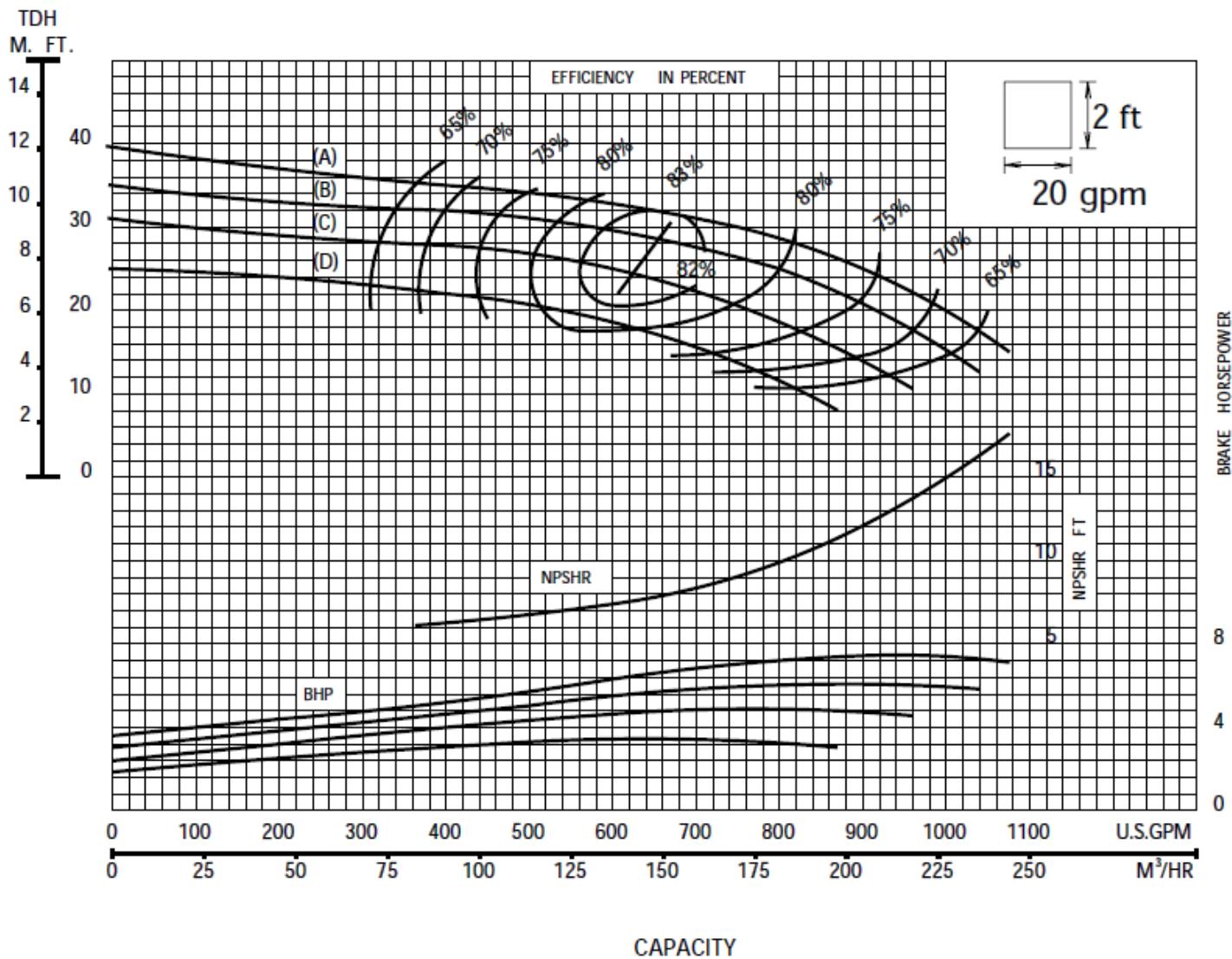
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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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	22
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 IN.
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.					

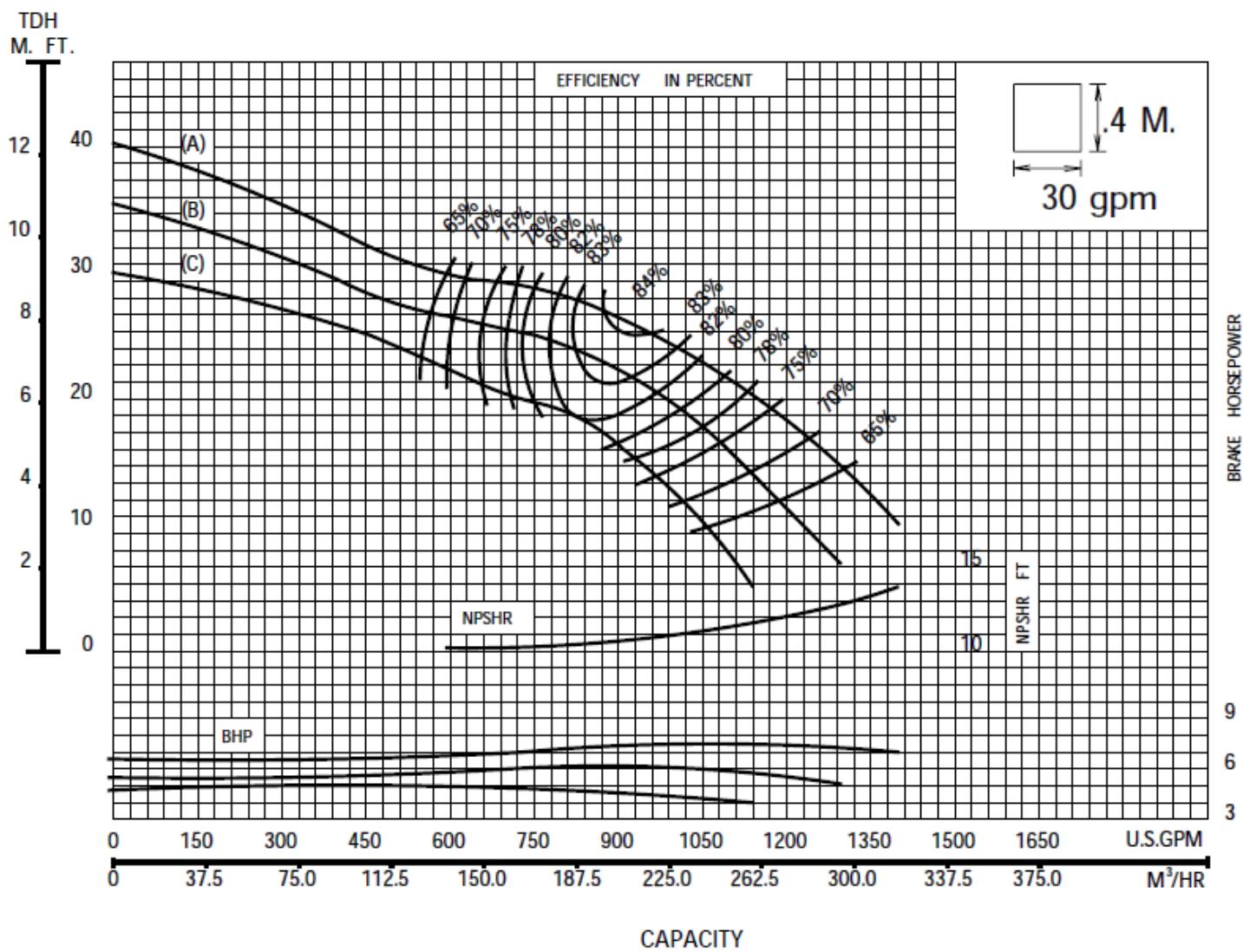
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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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	22
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 IN.
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:	-4	-2	-1	0	
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.					

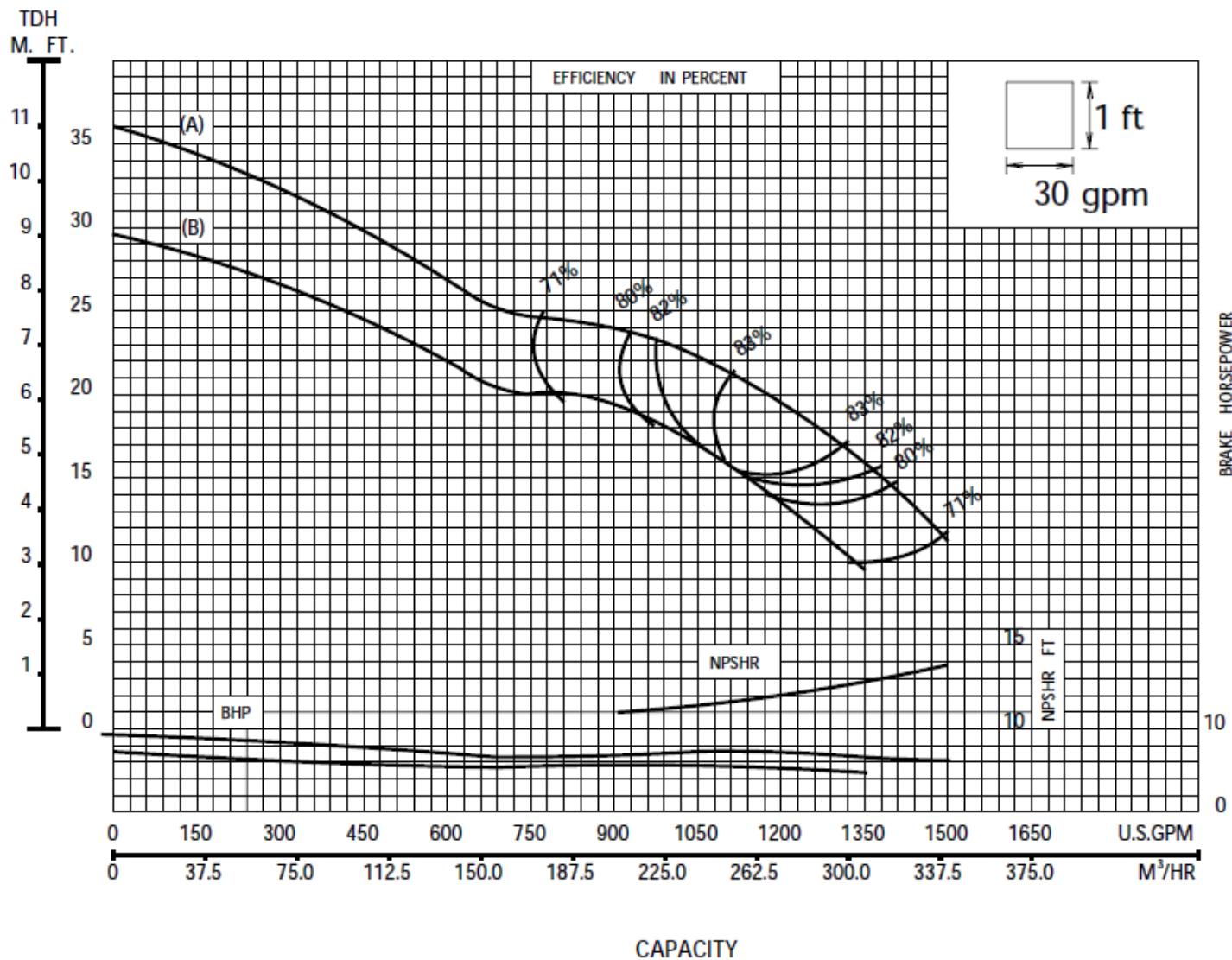
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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1160 RPM



IMPELLER DATA			
IMPELLER NUMBER	3374	TRIM:	(A) 9.563" x 26.5°
MATERIAL	BRONZE		(B) 8.875" 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	22
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 IN.
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.				

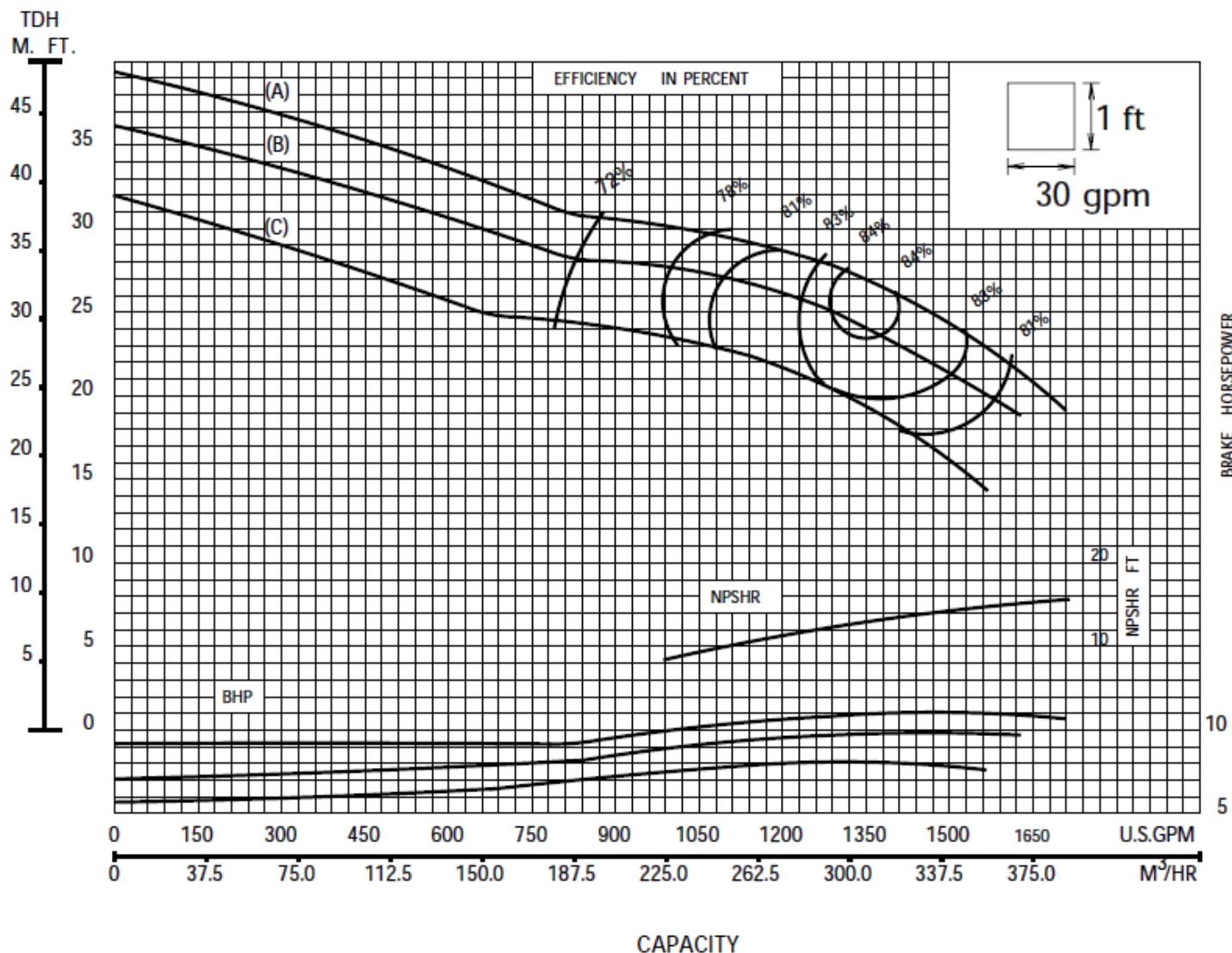
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W12WS

1160 RPM



IMPELLER DATA			
IMPELLER NUMBER	4777	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 C.I./ENAM.
BOWL MAX. DIAMETER	12.188 IN.
BOWL MIN. DIAMETER	11.750 IN.
MAX. NO. STAGES	21
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 IN.
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:	-3	-2	-1	0
CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.				

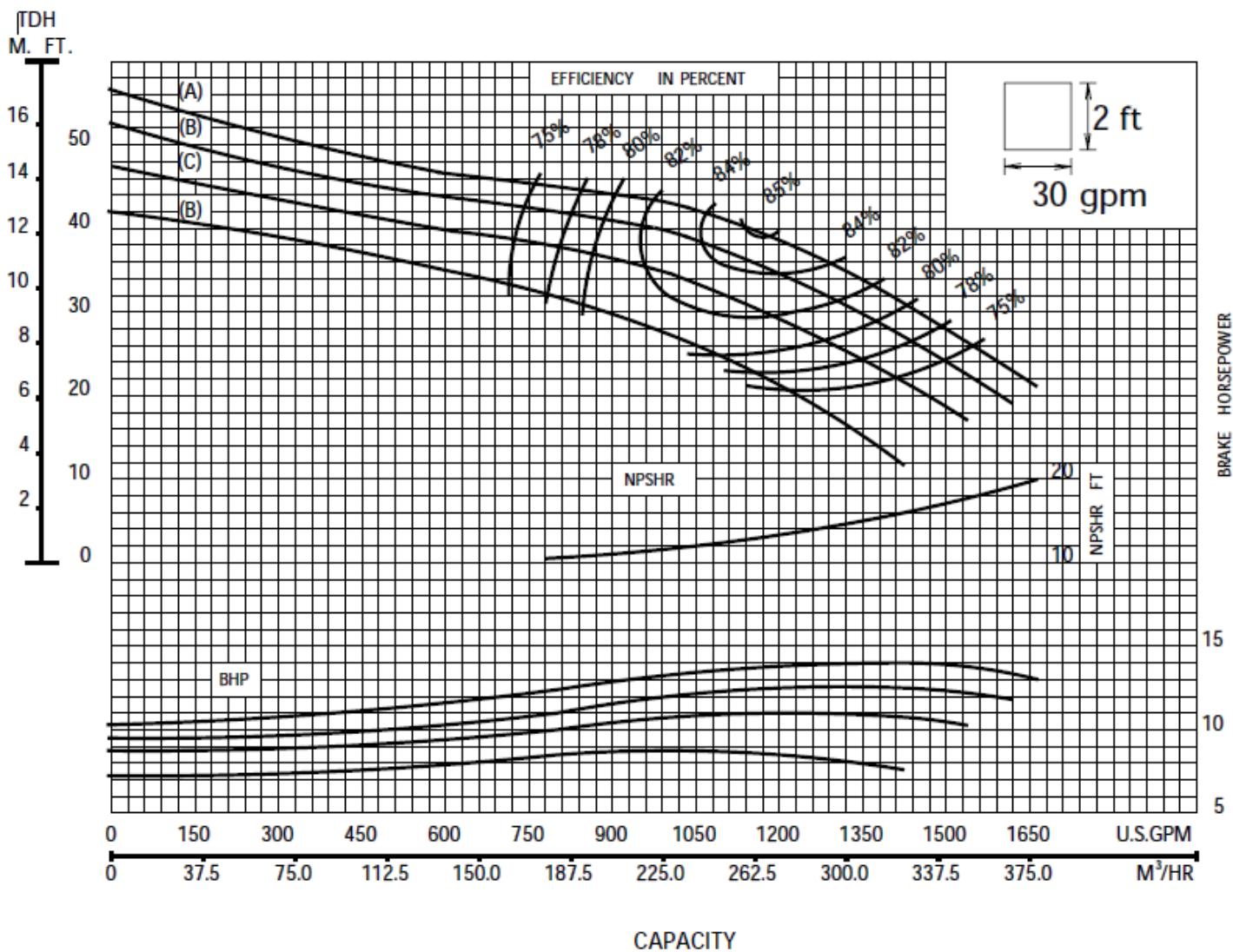
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W14LS

1160 RPM



IMPELLER DATA			
IMPELLER NUMBER	3107	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=19.70		
EYE AREA	31.50 SQ. IN.		Minimum submergence above eye of bottom impeller: .30 IN.
WEIGHT	18.50 LB.		

BOWL DATA	
BOWL NUMBER	3106 C.I./ENAM.
BOWL MAX. DIAMETER	13.500 IN.
BOWL MIN. DIAMETER	13.250 IN.
MAX. NO. STAGES	19
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 IN.
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.				

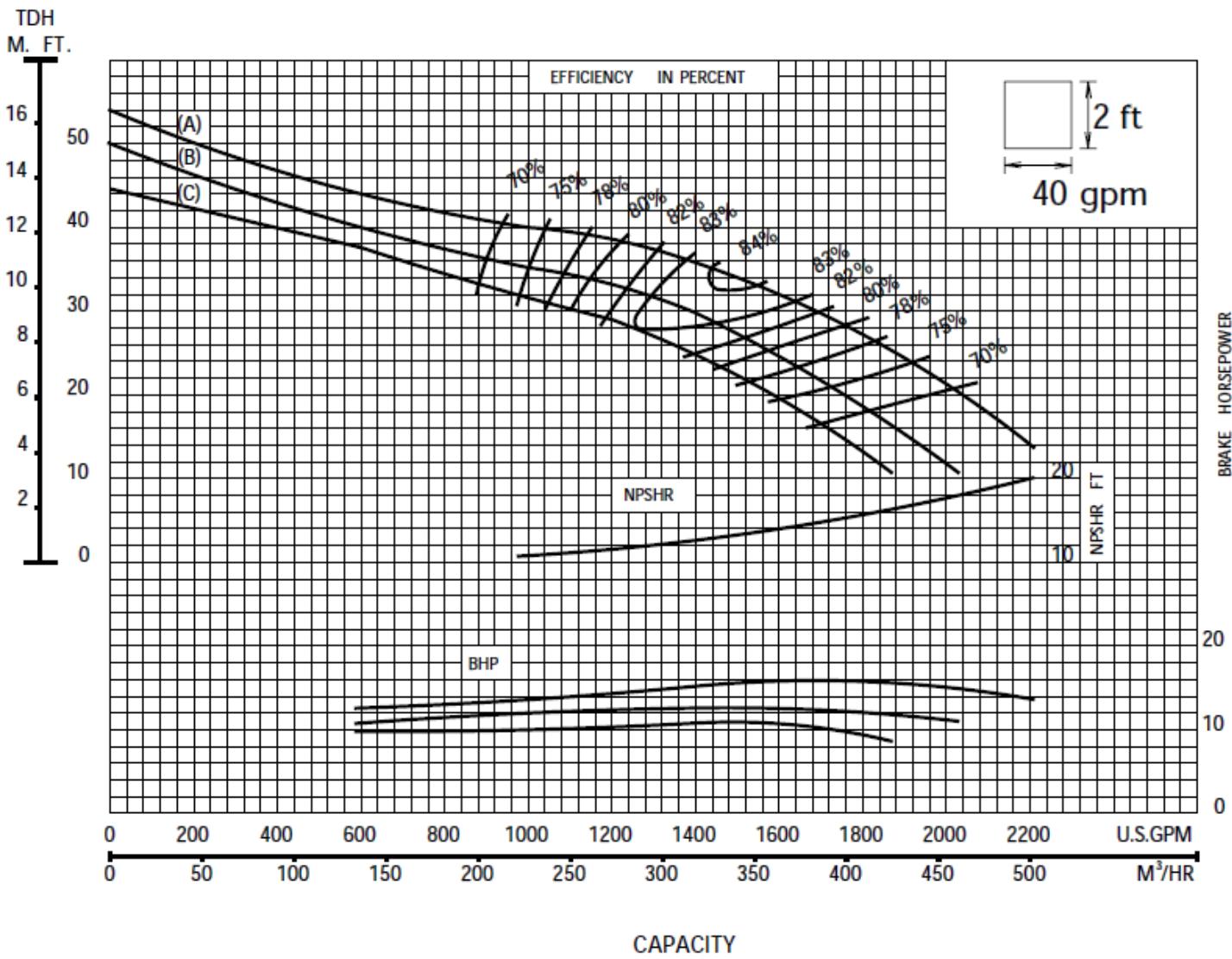
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W14MS

1160 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.		

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	3042 C.I./ENAM.
BOWL MAX. DIAMETER	13.500 IN.
BOWL MIN. DIAMETER	13.250 IN.
MAX. NO. STAGES	19
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 IN.
SUCTION SIZE	10 - 12 IN.
MAX. SPHERE SIZE	1.250 IN
MAX. OPERATIONAL P.S.I.	540 (SPECIAL)

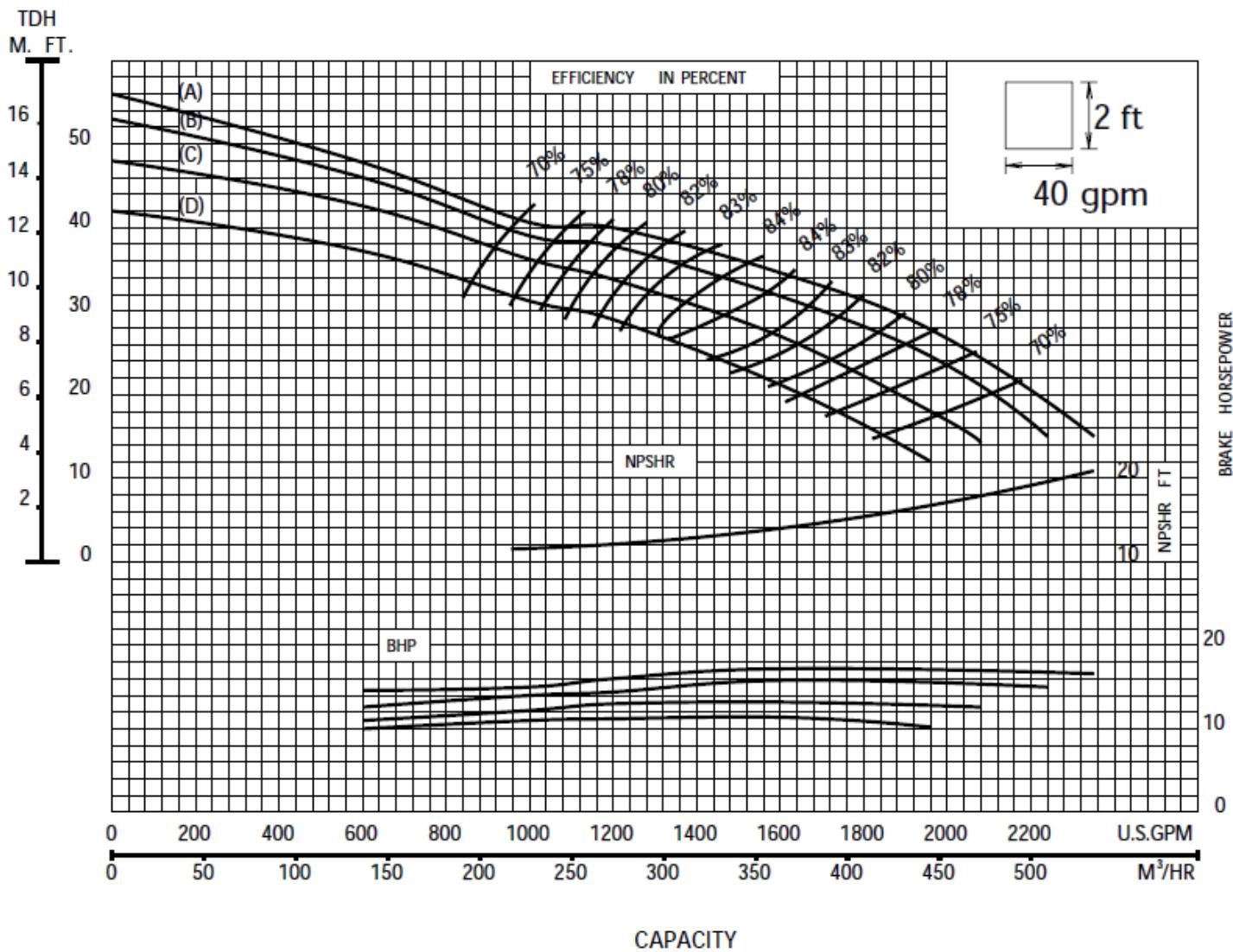
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W14HS

1160 RPM



CAPACITY

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" X32.5°
THRUST FACTOR	K=25.20		(D) 10.500" X32.5°
EYE AREA	43.85 SQ. IN.		Minimum submergence above eye of bottom impeller: .30 IN.
WEIGHT	21.25 LB.		

BOWL DATA	
BOWL NUMBER	3042 C.I./ENAM.
BOWL MAX. DIAMETER	13.500 IN.
BOWL MIN. DIAMETER	13.250 IN.
MAX. NO. STAGES	19
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 IN.
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.				

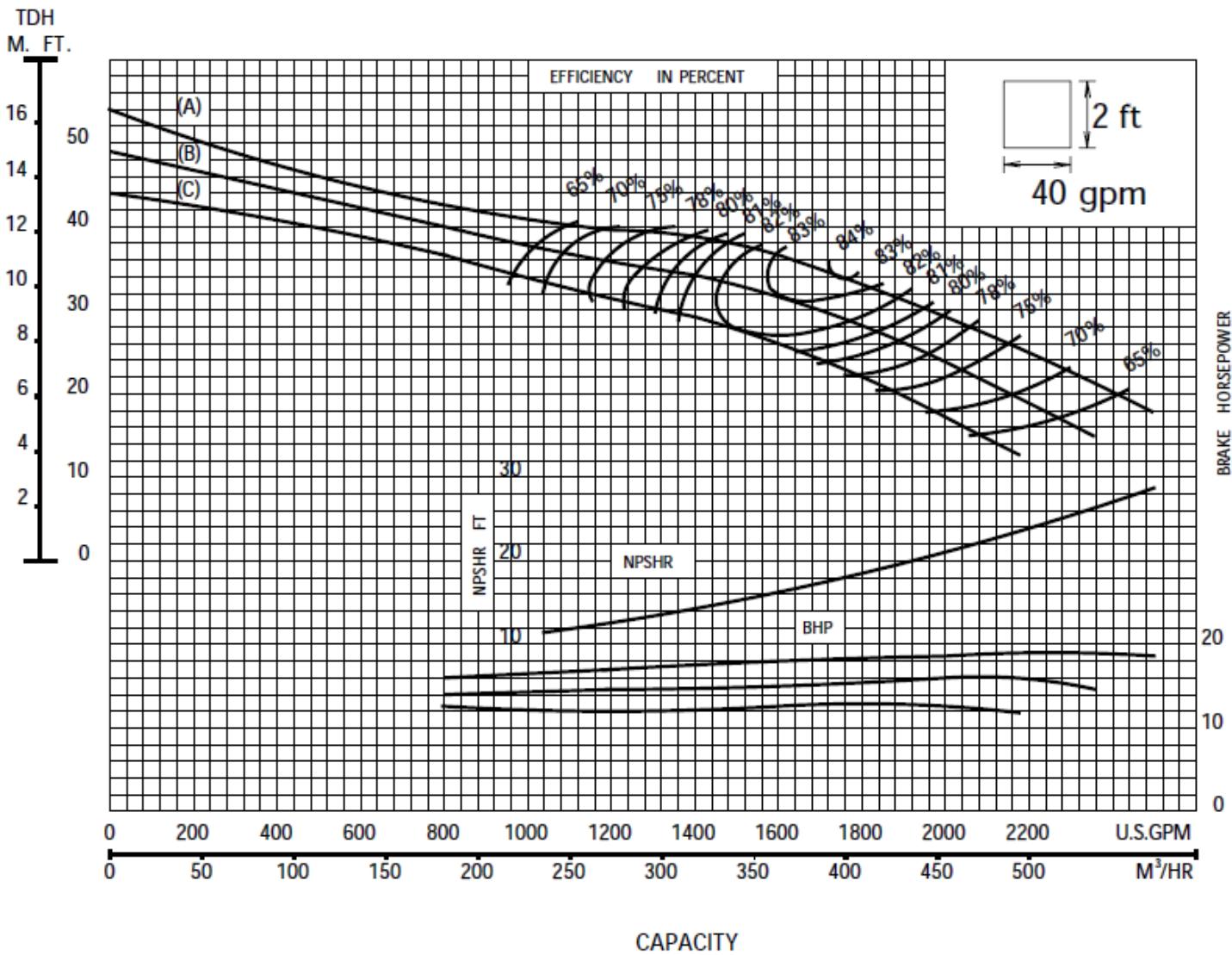
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Wilo-Vertical Turbine Pump Curve

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W14XS

1160 RPM



IMPELLER DATA			
IMPELLER NUMBER	3092	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	19
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 IN.
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.				

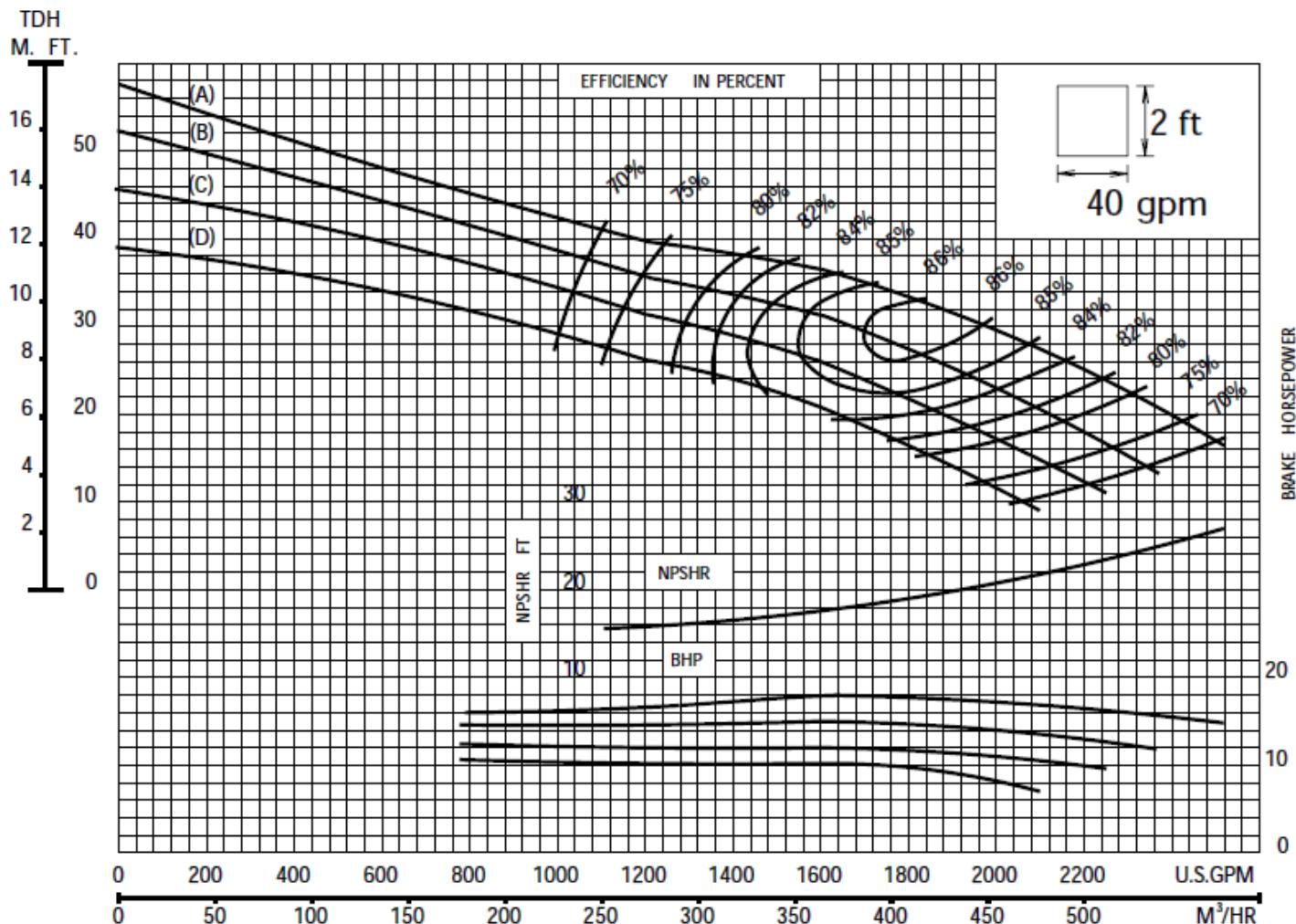
Performance based on pumping clear, fresh water at a temperature not over 85°F., free of gas, air or abrasives and with bowls properly adjusted and submerged. Performance curve reflects Hydraulic Institute tolerances and guidelines.

Wilo-Vertical Turbine Pump Curve

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W14WS

1160 RPM



CAPACITY

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		(D) 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	18
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 IN.
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.				

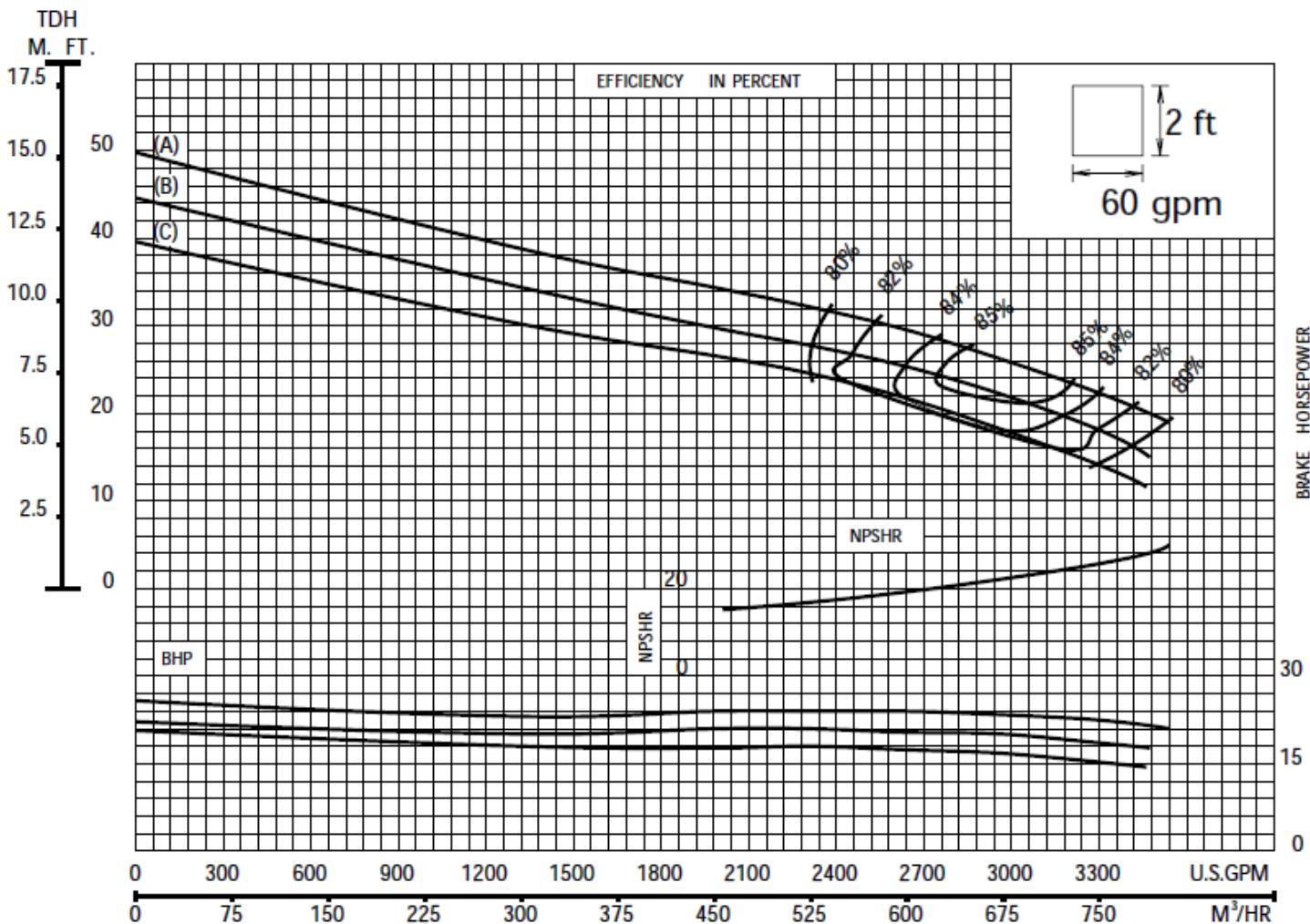
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Wilo-Vertical Turbine Pump Curve

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W15KS

1160 RPM



CAPACITY

IMPELLER DATA			
IMPELLER NUMBER	0004-S	TRIM:	(A) 11.850" X 34°
MATERIAL	BRONZE		(B) 11.438" X 34°
TYPE	SEMI-OPEN		(C) 11.000" 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	14
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 IN.
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	
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.