

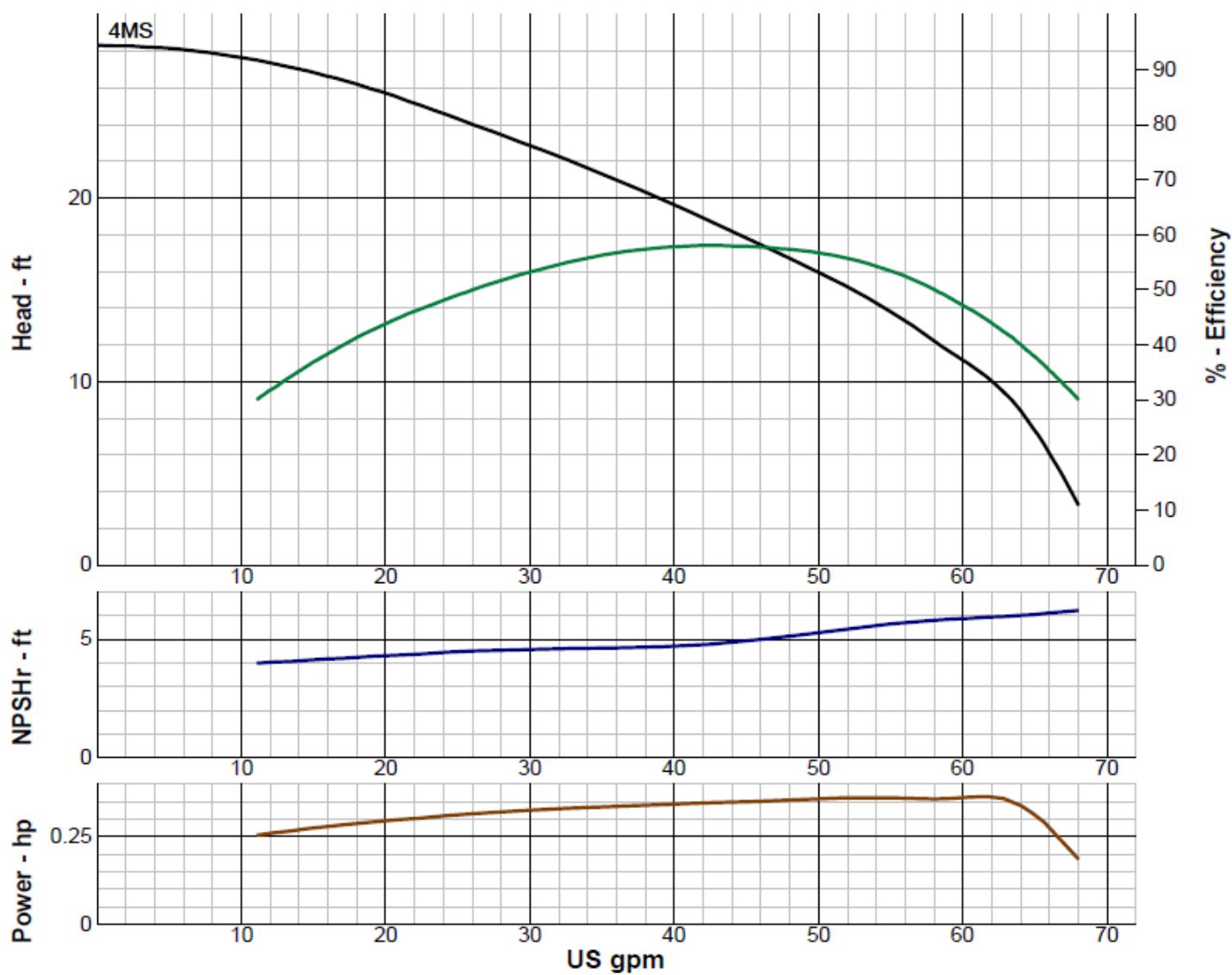
Wilo-Vertical Turbine Pump Curve

Single Stage Performance

wilo®

W4MS

3450 RPM



IMPELLER DATA

IMPELLER NUMBER	3607
TYPE	SEMI-OPEN
THRUST FACTOR	K=1.56
EYE AREA	2.46 SQ. IN.
WEIGHT	1.00 LB.

Minimum submergence above eye of bottom impeller: 7 IN.

FLANGED BOWL DATA

BOWL NUMBER	3031
BOWL MAX. DIAMETER	3.625 IN.
BOWL MIN. DIAMETER	3.625 IN.
MAX. NO. STAGES	12
ONE STAGE WEIGHT	35 LB.
ADD STAGE WEIGHT	10 LB.
STD. SHAFT DIA.	0.750 IN.
STD. LATERAL	0.375 IN.
DISCHARGE SIZE	2.50 – 3.00 IN.
SUCTION CONNECTION	THD.
MAX. SPHERE SIZE	0.125
MAX. OPERATIONAL P.S.I.	360 (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.					

PUMP MATERIAL EFFICIENCY CORRECTION

	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-1	0	-1	-4
BOWL MATERIAL:	-1	-1	-1	-8

Performance based on pumping clean, 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.

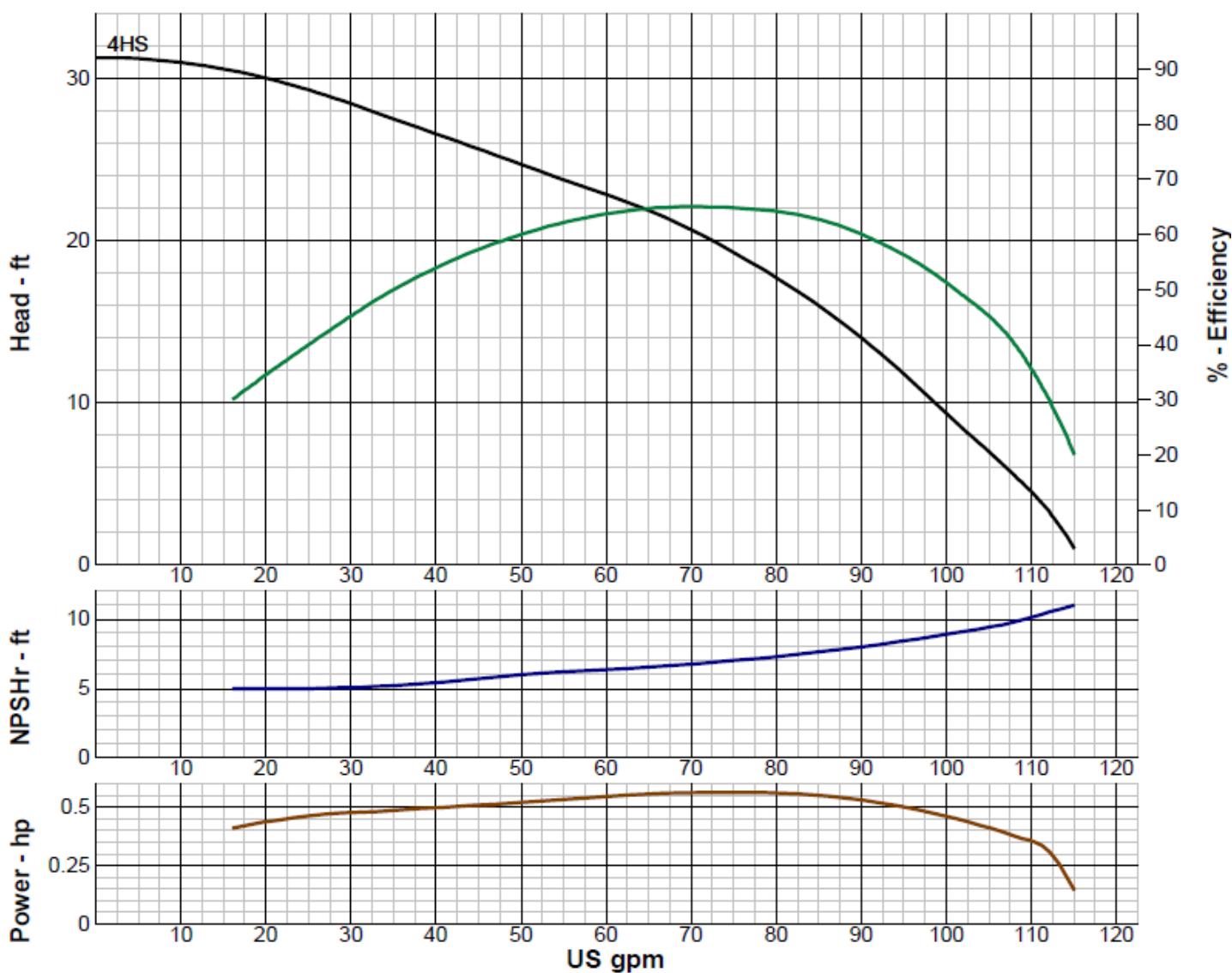
Wilo-Vertical Turbine Pump Curve

Single Stage Performance

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W4HS

3450 RPM



IMPELLER DATA	
IMPELLER NUMBER	3607
TYPE	SEMI-OPEN
THRUST FACTOR	K=1.50
EYE AREA	2.46 SQ. IN.
WEIGHT	1.00 LB.

Minimum submergence above eye of bottom impeller: 7 IN.

FLANGED BOWL DATA	
BOWL NUMBER	3031
BOWL MAX. DIAMETER	3.625 IN.
BOWL MIN. DIAMETER	3.625 IN.
MAX. NO. STAGES	12
ONE STAGE WEIGHT	35 LB.
ADD STAGE WEIGHT	10 LB.
STD. SHAFT DIA.	0.750 IN.
STD. LATERAL	0.375 IN.
DISCHARGE SIZE	2.50 - 3.00 IN.
SUCTION CONNECTION	THD.
MAX. SPHERE SIZE	0.125
MAX. OPERATIONAL P.S.I.	360 (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.					

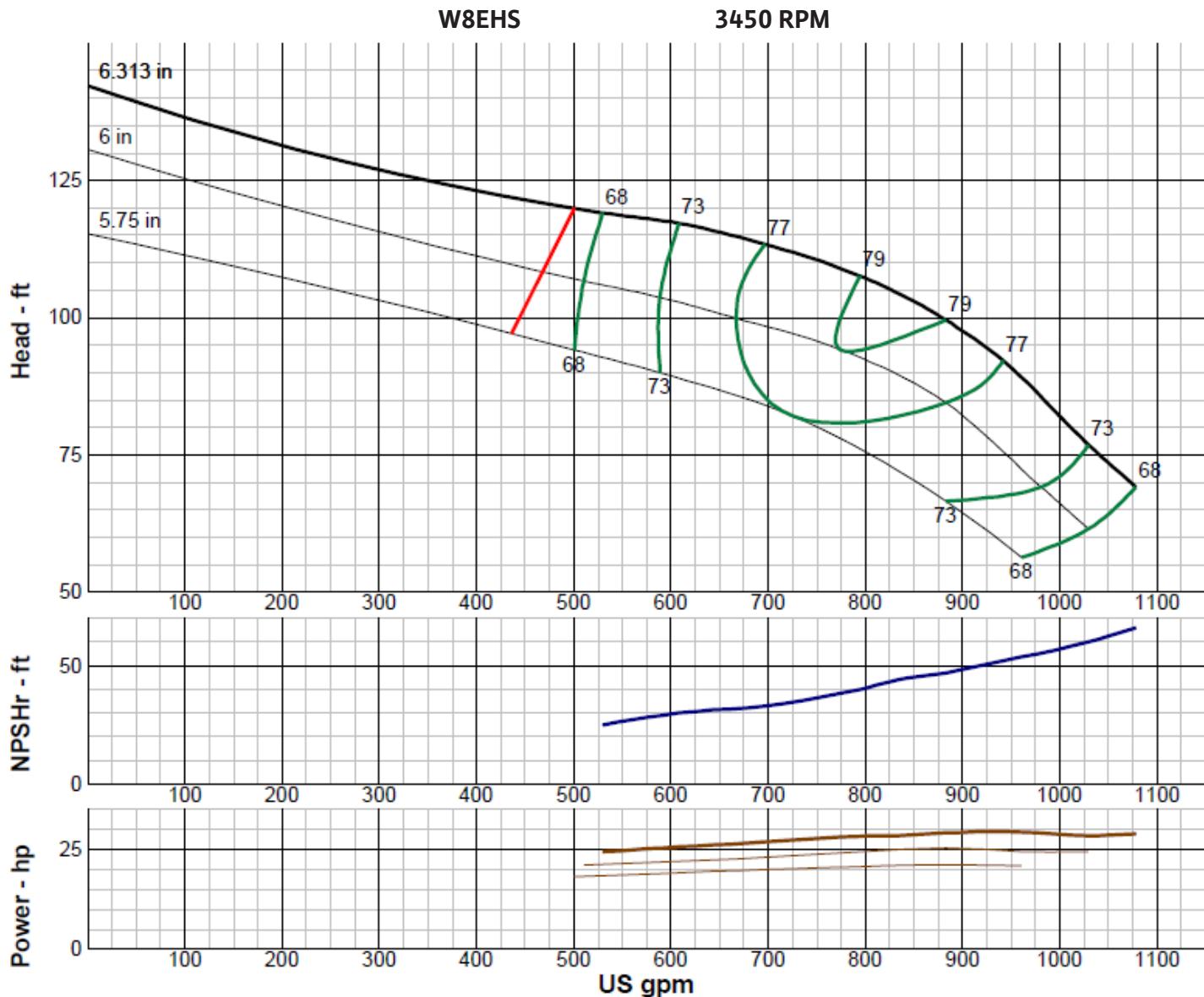
PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-1	0	-1	-4
BOWL MATERIAL:	-1	-1	-1	-8

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IMPELLER DATA	
IMPELLER NUMBER	2981
TYPE	SEMI-OPEN
THRUST FACTOR	K=5.40
EYE AREA	8.48 SQ. IN.
WEIGHT	3.25 LB.

Minimum submergence above eye of bottom impeller: 24 IN.

FLANGED BOWL DATA	
BOWL NUMBER	2883
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	5
ONE STAGE WEIGHT	130 LB.
ADD STAGE WEIGHT	30 LB.
STD. SHAFT DIA.	1.188 IN.
STD. LATERAL	0.375 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION CONNECTION	THD.
MAX. SPHERE SIZE	0.625
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.					

PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-5
BOWL MATERIAL:	-2	-2	-2	-4

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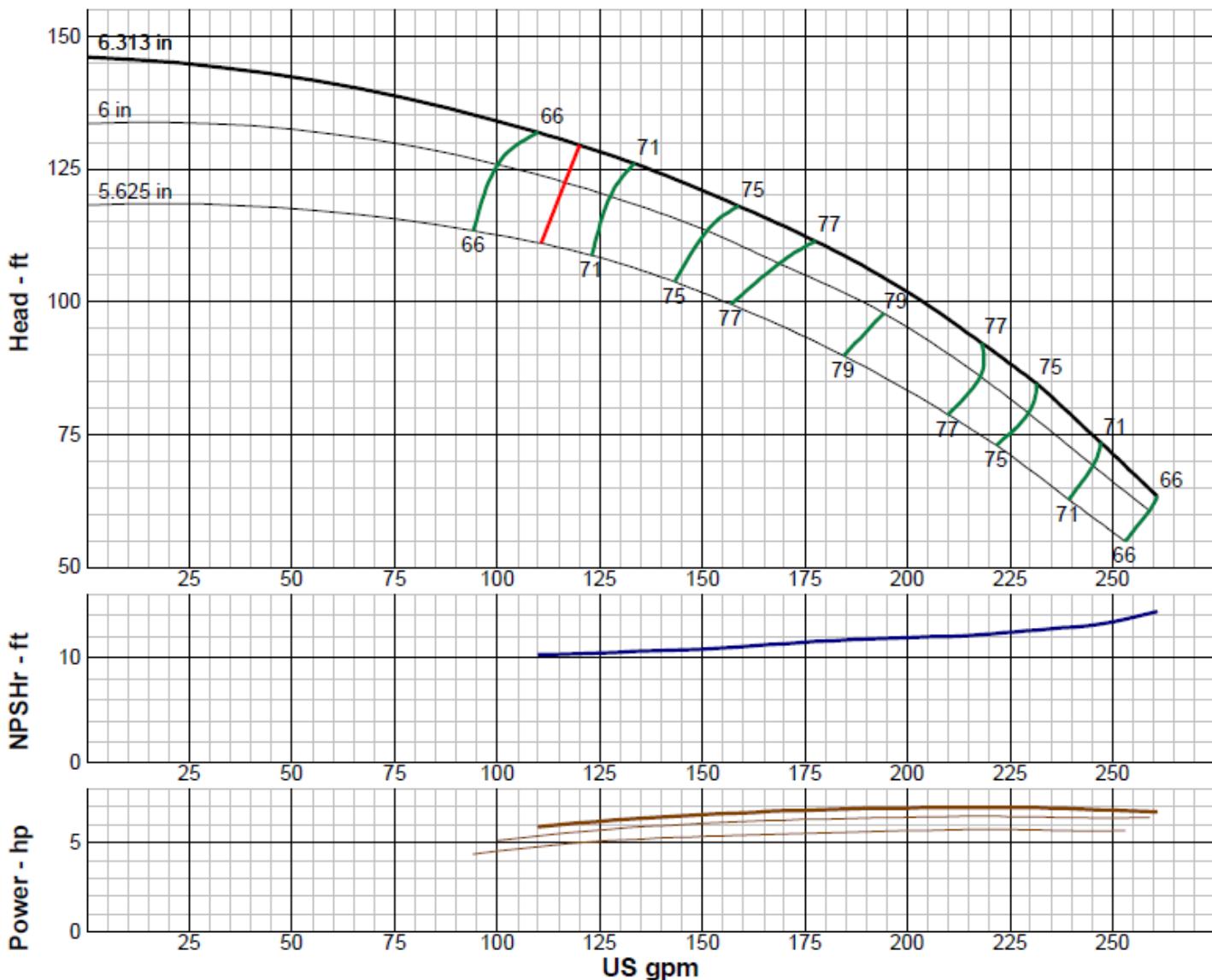
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W8JS

3450 RPM



IMPELLER DATA	
IMPELLER NUMBER	3692
TYPE	SEMI-OPEN
THRUST FACTOR	K=3.52
EYE AREA	3.18 SQ. IN.
WEIGHT	3.55 LB.

FLANGED BOWL DATA	
BOWL NUMBER	3629
BOWL MAX. DIAMETER	7.813 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	15
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 CONNECTION	THD.
MAX. SPHERE SIZE	0.250
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

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

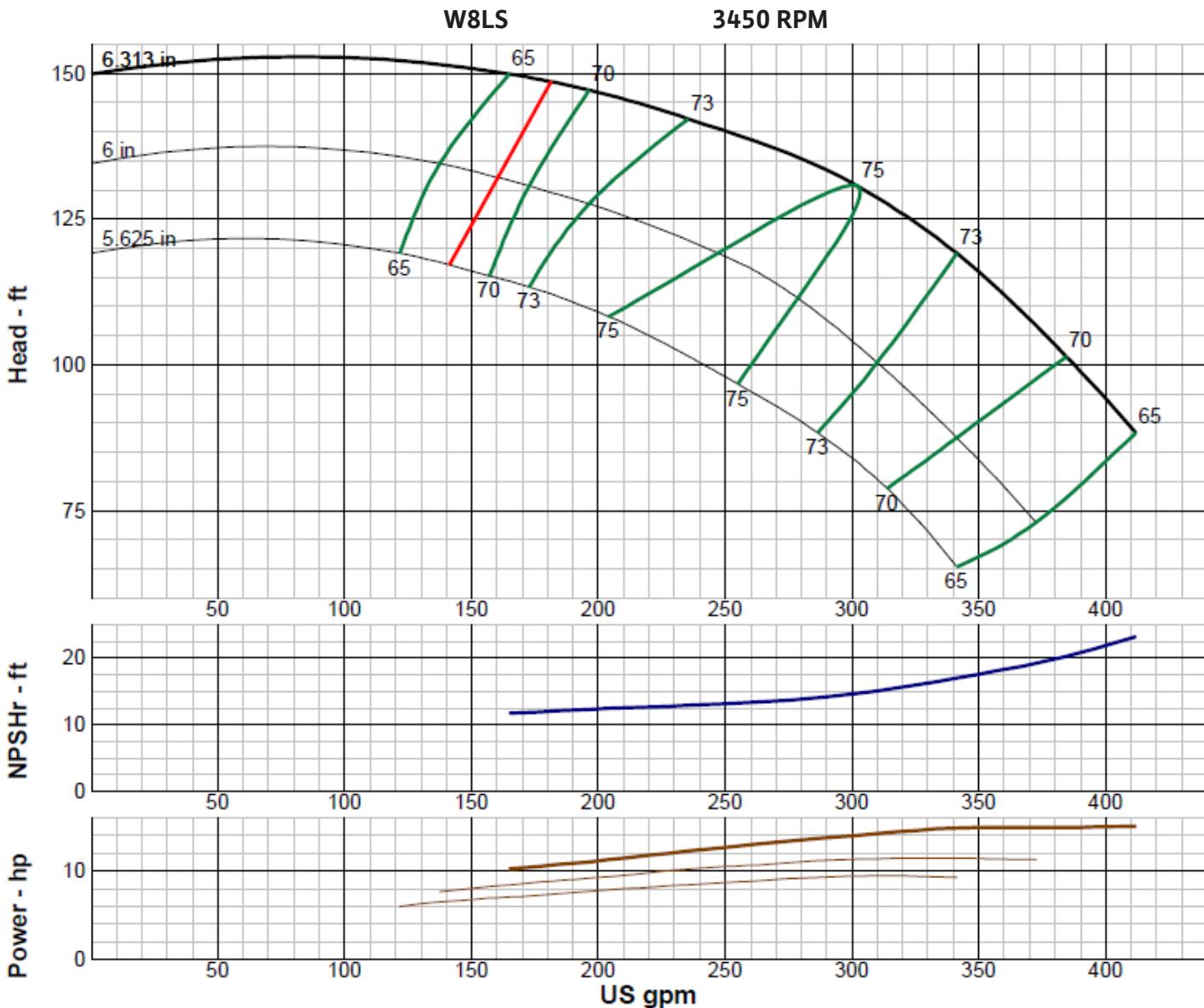
PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-5
BOWL MATERIAL:	-2	-2	-2	-4

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IMPELLER DATA

IMPELLER NUMBER	3641
TYPE	SEMI-OPEN
THRUST FACTOR	K=3.34
EYE AREA	4.64 SQ. IN.
WEIGHT	4.25 LB.

Minimum submergence above eye of bottom impeller: 18 IN.

FLANGED BOWL DATA

BOWL NUMBER	3629
BOWL MAX. DIAMETER	7.813 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	12
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 CONNECTION	THD.
MAX. SPHERE SIZE	0.250
MAX. OPERATIONAL P.S.I.	692 (SPECIAL)

EFFICIENCY CORRECTION

NUMBER OF BOWLS:	1	2	3	4	
CHANGE AS FOLLOWS:	-4	-2	0	0	

CHANGE IN EFFICIENCY MAY AFFECT BOTH HEAD AND HORSEPOWER.

PUMP MATERIAL EFFICIENCY CORRECTION

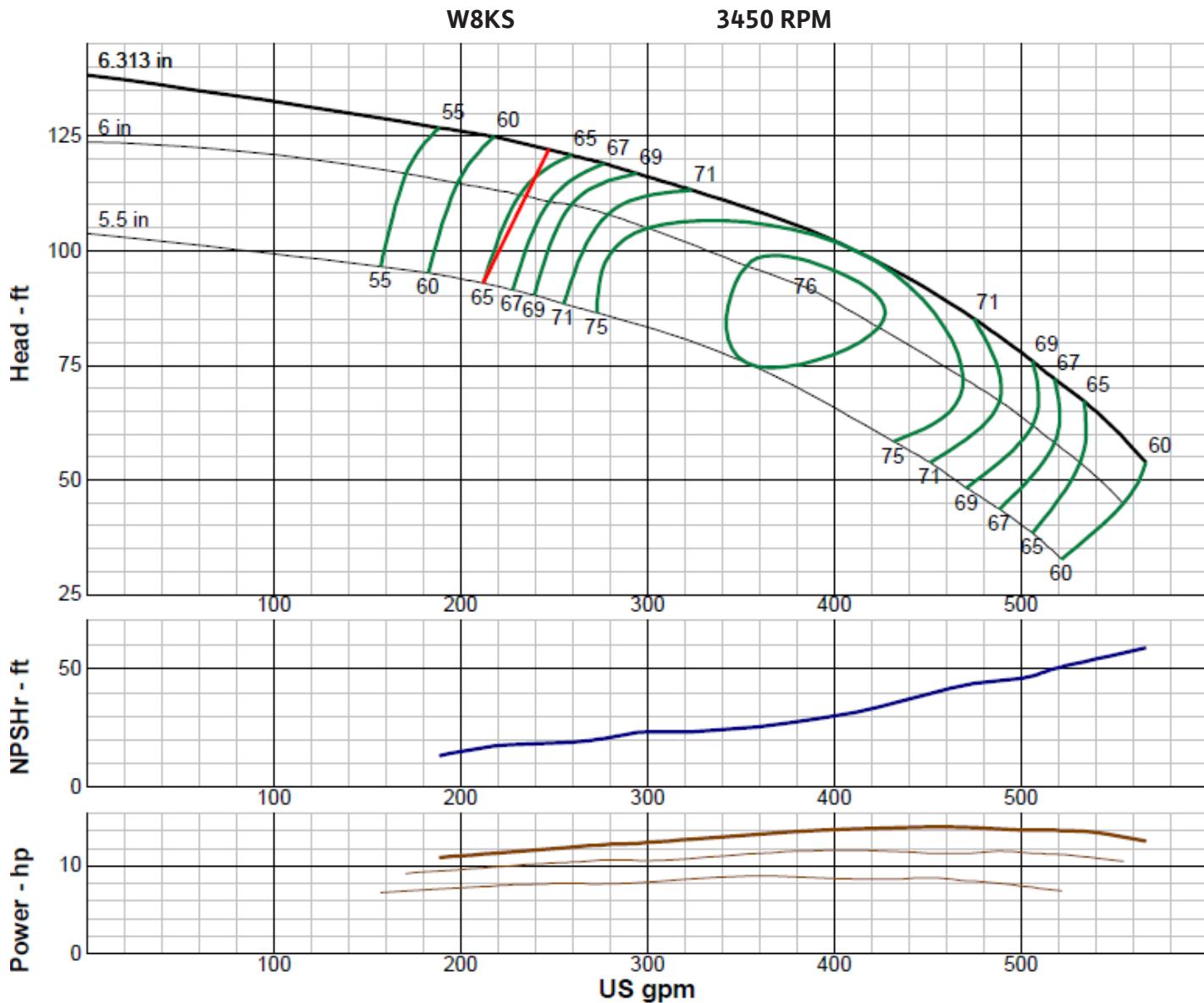
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-5
BOWL MATERIAL:	-2	-2	-2	-4

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IMPELLER DATA	
IMPELLER NUMBER	3693
TYPE	SEMI-OPEN
THRUST FACTOR	K=4.42
EYE AREA	6.60 SQ. IN.
WEIGHT	3.75 LB.

Minimum submergence above eye of bottom impeller: 20 IN.

FLANGED BOWL DATA	
BOWL NUMBER	3591
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	10
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 CONNECTION	THD.
MAX. SPHERE SIZE	0.375
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.				

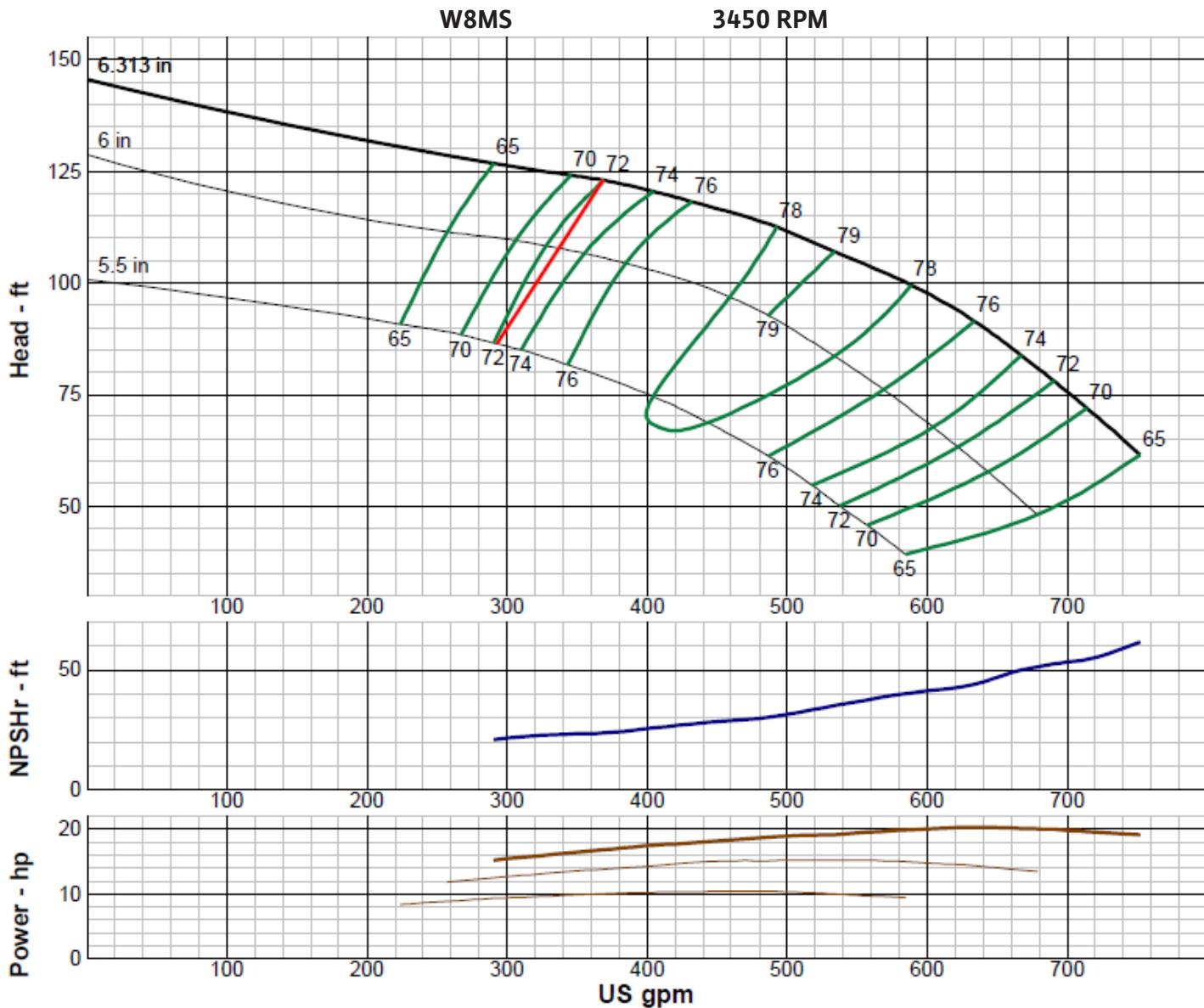
PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-5
BOWL MATERIAL:	-2	-2	-2	-4

Performance based on pumping clean, 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
TYPE	SEMI-OPEN
THRUST FACTOR	K=4.28
EYE AREA	6.60 SQ. IN.
WEIGHT	4.125 LB.

Minimum submergence above eye of bottom impeller: 24 IN.

FLANGED BOWL DATA

BOWL NUMBER	3591
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	7
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 CONNECTION	THD.
MAX. SPHERE SIZE	0.375
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.

PUMP MATERIAL EFFICIENCY CORRECTION

	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-5
BOWL MATERIAL:	-2	-2	-2	-4

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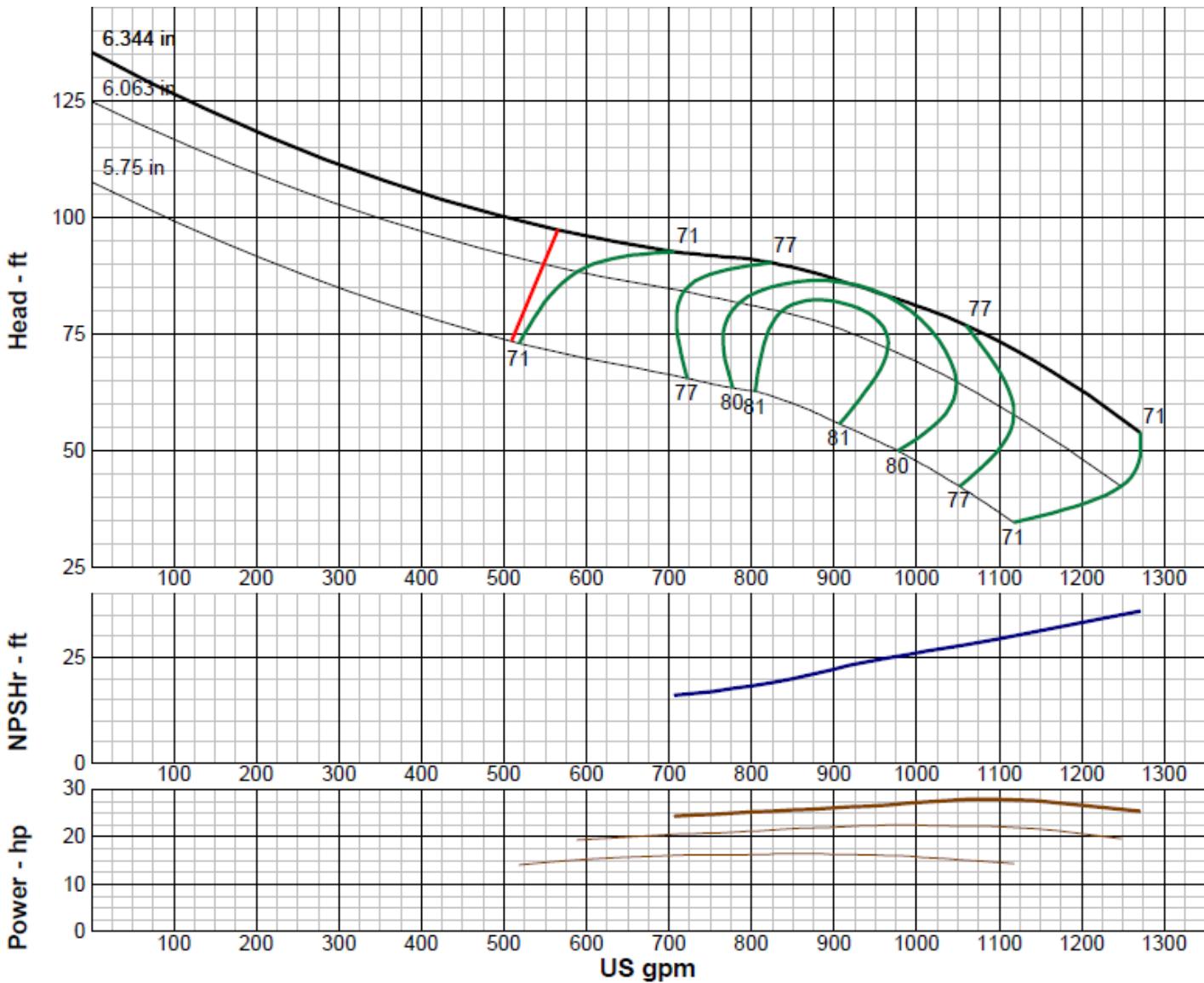
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W8YS

3450 RPM



IMPELLER DATA		
IMPELLER NUMBER	5506	Minimum submergence above eye of bottom impeller: 30 IN.
TYPE	SEMI-OPEN	
THRUST FACTOR	K=8.00	
EYE AREA	15.9 SQ. IN.	
WEIGHT	5.00 LB.	

FLANGED BOWL DATA	
BOWL NUMBER	5503
BOWL MAX. DIAMETER	7.938 IN.
BOWL MIN. DIAMETER	7.500 IN.
MAX. NO. STAGES	9
ONE STAGE WEIGHT	139 LB.
ADD STAGE WEIGHT	39 LB.
STD. SHAFT DIA.	1.188 IN.
STD. LATERAL	0.375 IN.
DISCHARGE SIZE	5 - 6 IN.
SUCTION CONNECTION	THD.
MAX. SPHERE SIZE	1.125
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.					

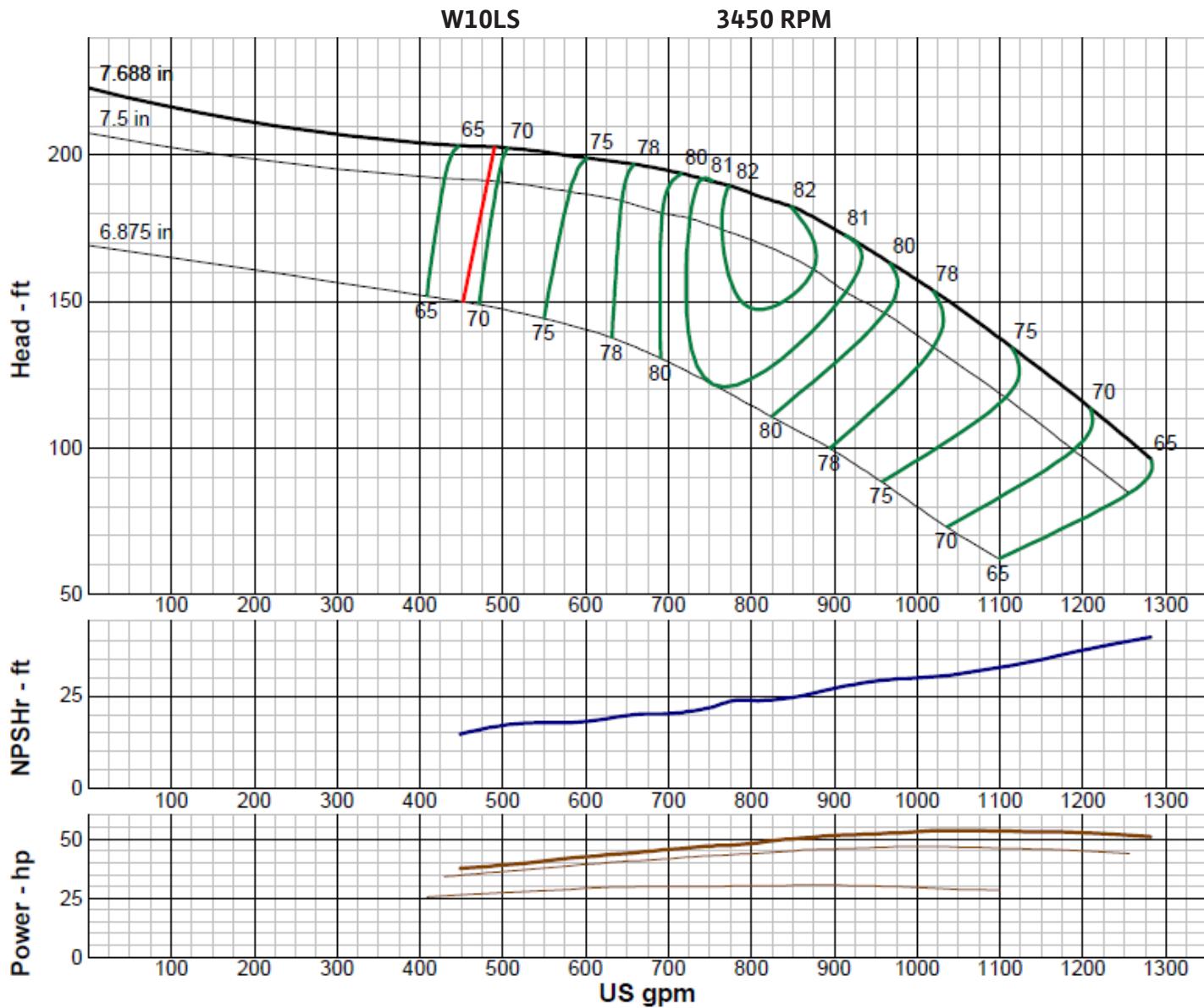
PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-5
BOWL MATERIAL:	-2	-2	-2	-4

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IMPELLER DATA

IMPELLER NUMBER	3103
TYPE	SEMI-OPEN
THRUST FACTOR	K=7.50
EYE AREA	11.7 SQ. IN.
WEIGHT	6.25 LB.

Minimum submergence above eye of bottom impeller: 38 IN.

FLANGED BOWL DATA

BOWL NUMBER	3098
BOWL MAX. DIAMETER	9.500 IN.
BOWL MIN. DIAMETER	7.250 IN.
MAX. NO. STAGES	10
ONE STAGE WEIGHT	139 LB.
ADD STAGE WEIGHT	55 LB.
STD. SHAFT DIA.	1.500 IN.
STD. LATERAL	0.500 IN.
DISCHARGE SIZE	6 - 8 IN.
SUCTION CONNECTION	THD.
MAX. SPHERE SIZE	0.500
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.

PUMP MATERIAL EFFICIENCY CORRECTION

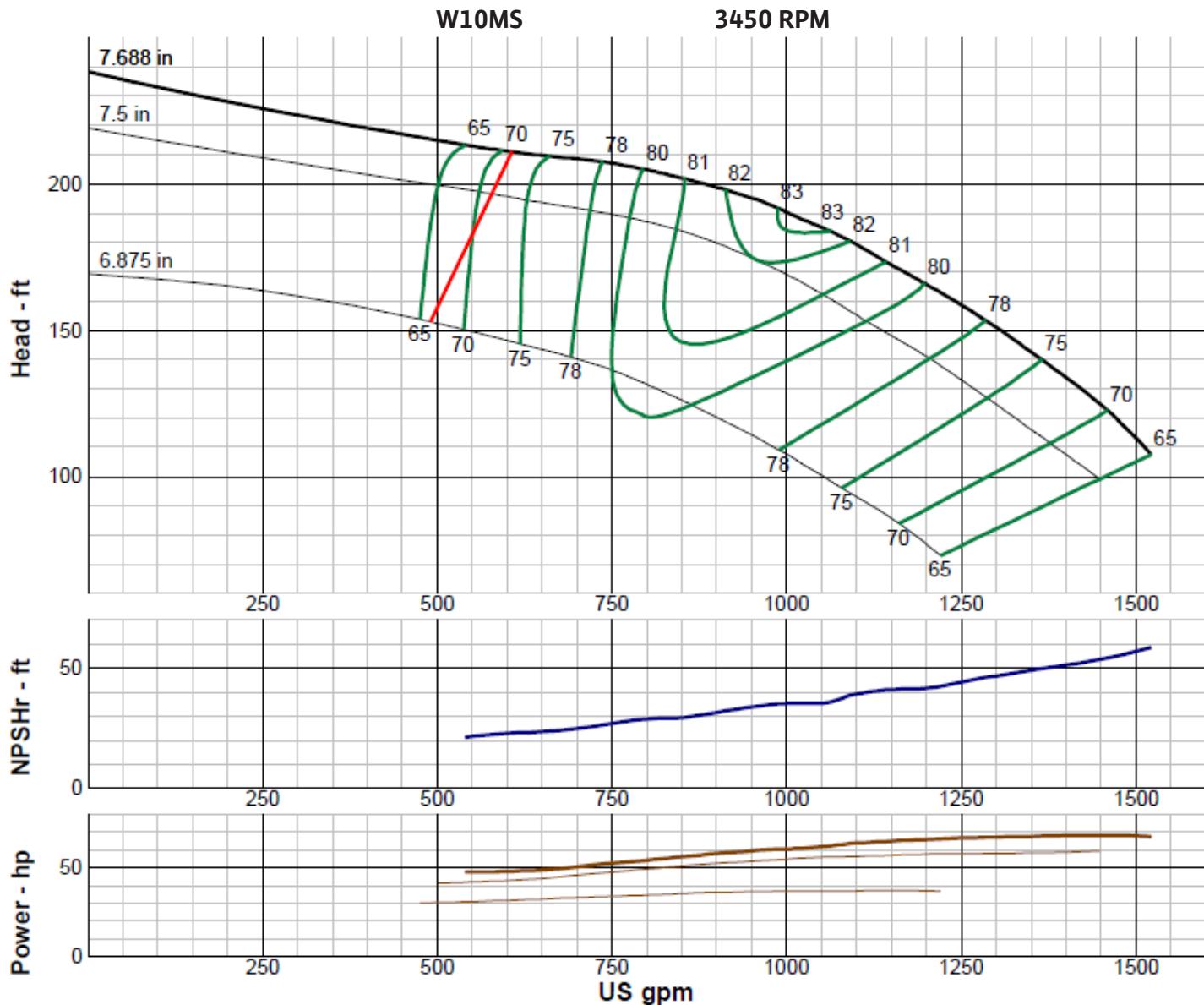
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-2
BOWL MATERIAL:	-2	-2	-2	-3

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IMPELLER DATA	
IMPELLER NUMBER	3099
TYPE	SEMI-OPEN
THRUST FACTOR	K=7.50
EYE AREA	11.7 SQ. IN.
WEIGHT	5.75 LB.

Minimum submergence above eye of bottom impeller: 38 IN.

FLANGED BOWL DATA	
BOWL NUMBER	3098
BOWL MAX. DIAMETER	9.500 IN.
BOWL MIN. DIAMETER	9.250 IN.
MAX. NO. STAGES	8
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 CONNECTION	THD.
MAX. SPHERE SIZE	0.500
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.					

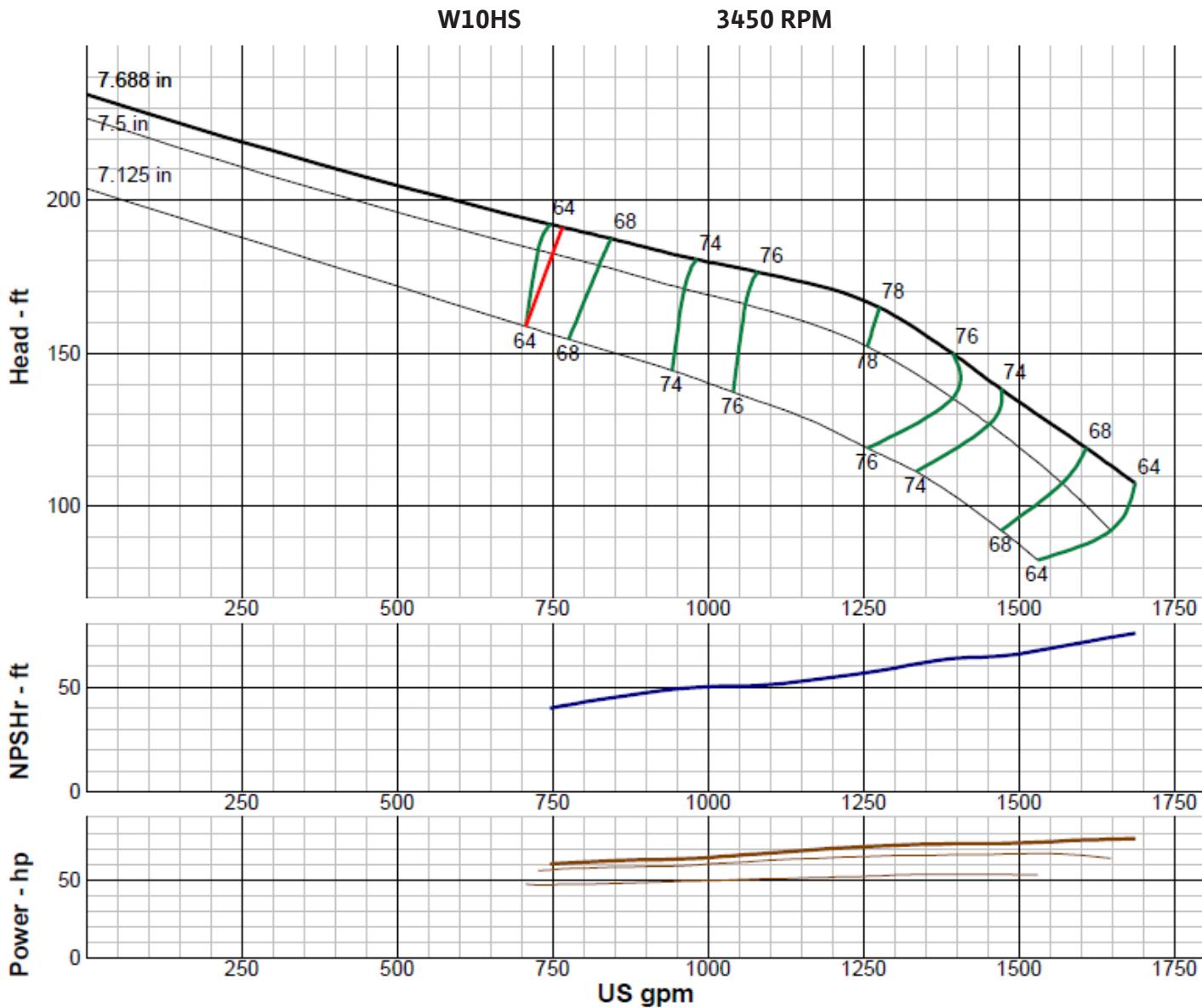
PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-2
BOWL MATERIAL:	-2	-2	-2	-3

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IMPELLER DATA	
IMPELLER NUMBER	2969
TYPE	SEMI-OPEN
THRUST FACTOR	K=9.20
EYE AREA	14.9 SQ. IN.
WEIGHT	5.25 LB.

Minimum submergence above eye of bottom impeller: 39 IN.

FLANGED BOWL DATA	
BOWL NUMBER	2968
BOWL MAX. DIAMETER	9.500 IN.
BOWL MIN. DIAMETER	9.250 IN.
MAX. NO. STAGES	7
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 CONNECTION	THD.
MAX. SPHERE SIZE	0.500
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.					

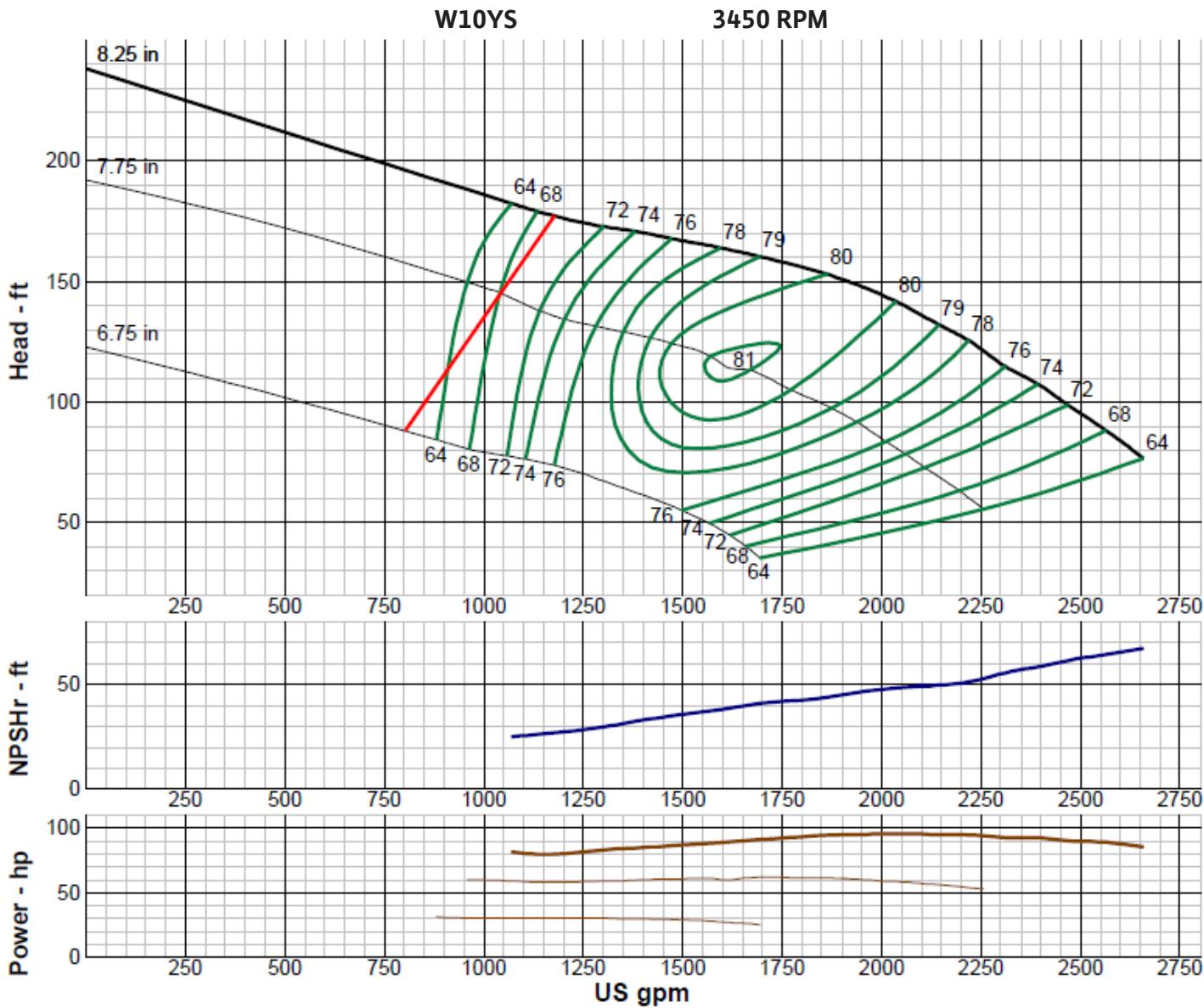
PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-2
BOWL MATERIAL:	-2	-2	-2	-3

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IMPELLER DATA	
IMPELLER NUMBER	3542
TYPE	SEMI-OPEN
THRUST FACTOR	K=11.40
EYE AREA	19.4 SQ. IN.
WEIGHT	7.25 LB.

Minimum submergence above eye of bottom impeller: 40 IN.

FLANGED BOWL DATA	
BOWL NUMBER	3541
BOWL MAX. DIAMETER	9.875 IN.
BOWL MIN. DIAMETER	9.500 IN.
MAX. NO. STAGES	8
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.
DISCHARGE CONNECTION	THD. - FLG.
SUCTION SIZE	6 - 8 IN.
SUCTION CONNECTION	THD.
MAX. SPHERE SIZE	0.875
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.					

PUMP MATERIAL EFFICIENCY CORRECTION				
	DUCTILE	BRONZE	NI-R	STAINLESS
IMPELLER MATERIAL:	-2	0	-1	-2
BOWL MATERIAL:	-2	-2	-2	-3

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