

Performance Section

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1200 RPM

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900 RPM

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21EH Special Filing	504
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23EHL Single Stage	507
23EHL Two Stage	508
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23EHH Single Stage	510
24GM Single Stage	511
24GM Multi Stage	512
27EML	513
27EM	514
30GM	515
30GH	516
31EM Single Stage	517
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36GM	521
36GH	522
38HH	523
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700 RPM

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23EHL Single Stage	603
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23EHH Single Stage	606
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27EM	608
31EM Single Stage	609
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33EHH	611
34EH	612
36GM	613
36GH	614
38HH	615
38HOH	616
42RKHC	617
44GM	618
44GH	619

500 RPM

33EHH	701
57EH (591 RPM)	702


440 RPM

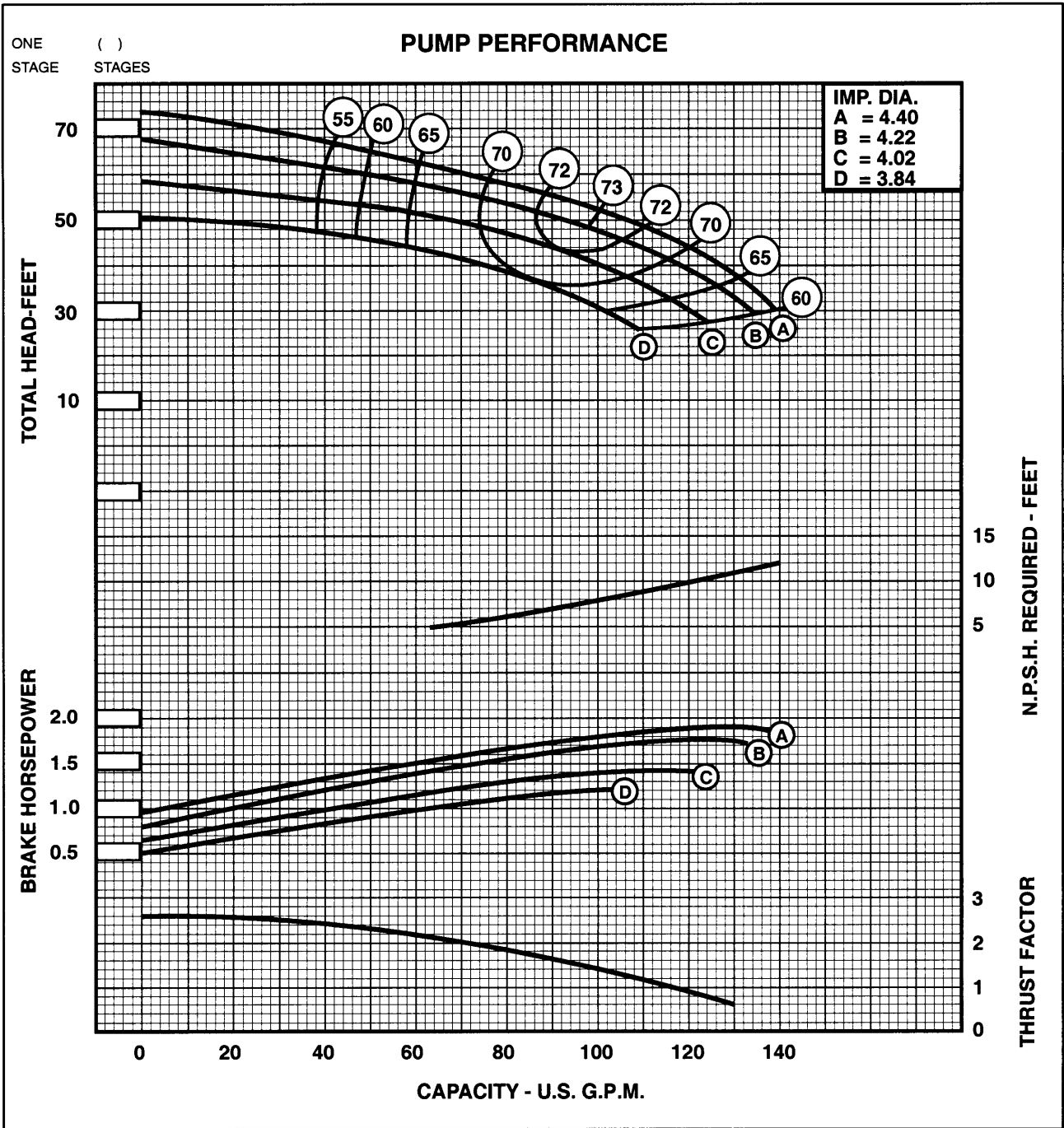
57EH (507 RPM)	801
57EH (443 RPM)	802

Refer to H2 Optimize for pump selection and specifications.

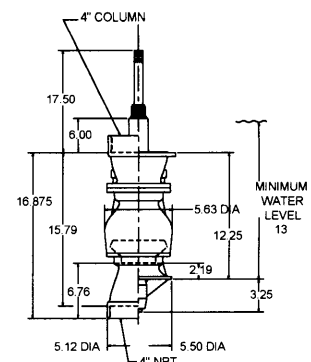
To obtain a free download of the H2 Optimize software on CD, contact the factory at 913/371-5000.


NOTES:

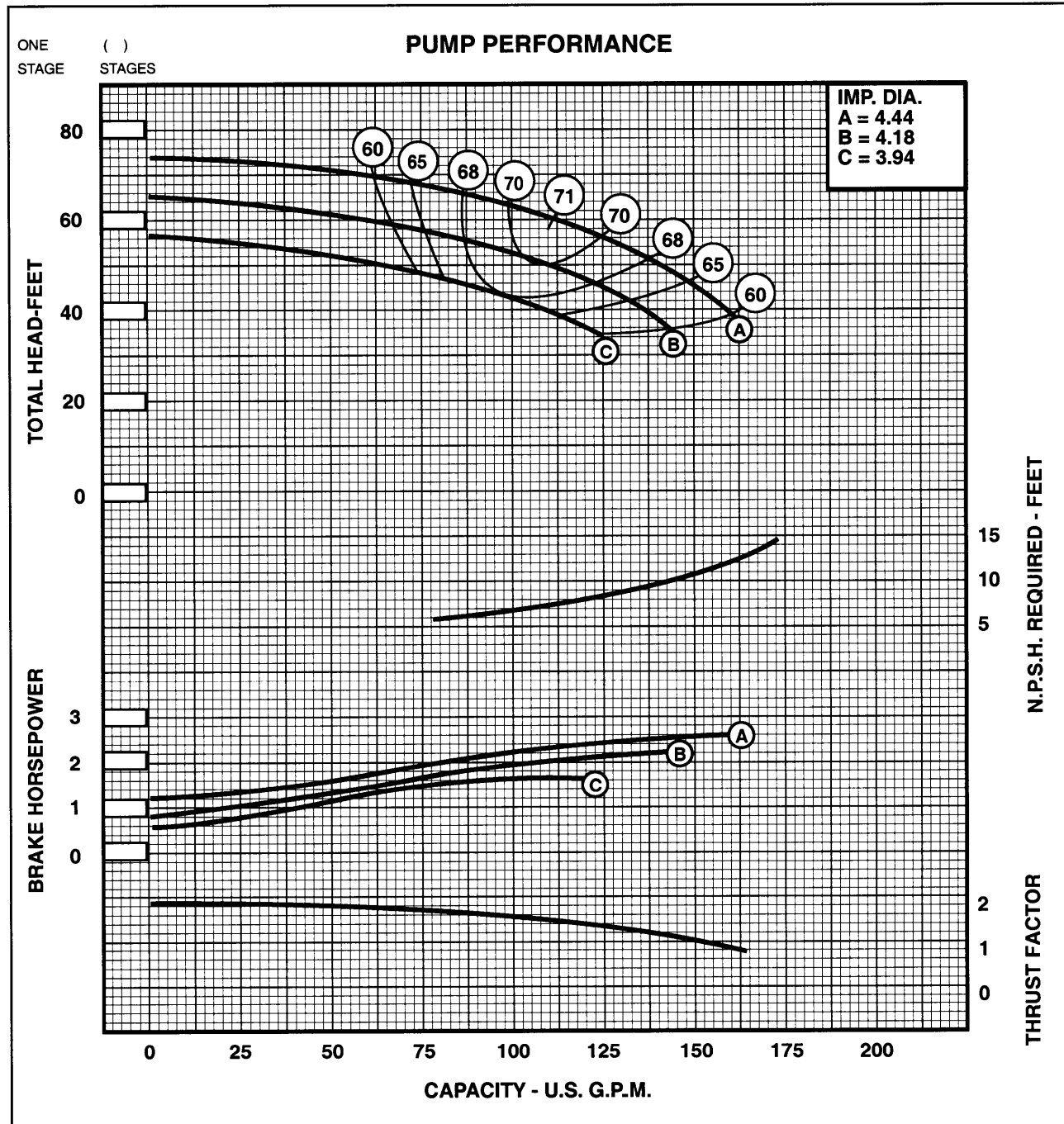
	No. Stages	Eff. Change	MATERIAL	Eff. Change	6 DRELC 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 4 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 4 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-4	IMP - C.I.	-2	
	2	-2	IMP - NI-RI	-1	
	3	-1	BOWL- BRZ.	0	
	4	0	BOWL- NI-R.	-1	



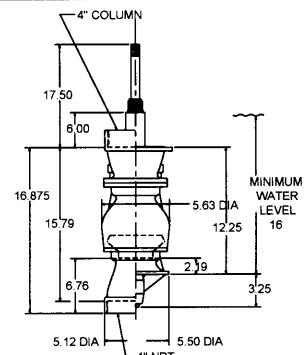
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.34
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	1.50
Bowl Weight, 1st Stage - Lbs.	100	WR^2	0.03
Bowl Weight, Ea. Add. Stage - Lbs.	25	Running Position (above seat) - In.	0.187
Allowable Shaft Stretch - Inches	.36	Submergence - Inches	13
Maximum Working Pressure - PSI	530	Max. Bowl Brq Clearance - In. Dia.	0.009
Maximum Hydro Pressure - PSI	795	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	2.86	Max Bowl O.D. - Inches	5.63
Rotor Weight 1st/add stages (K_A)	8.0/3.3	Suct Bell O.D. - Inches	5.50
Add 4.25" per additional stage.		Maximum Number of Stages	16
Discharge - Inches	4	Suction - Inches	4




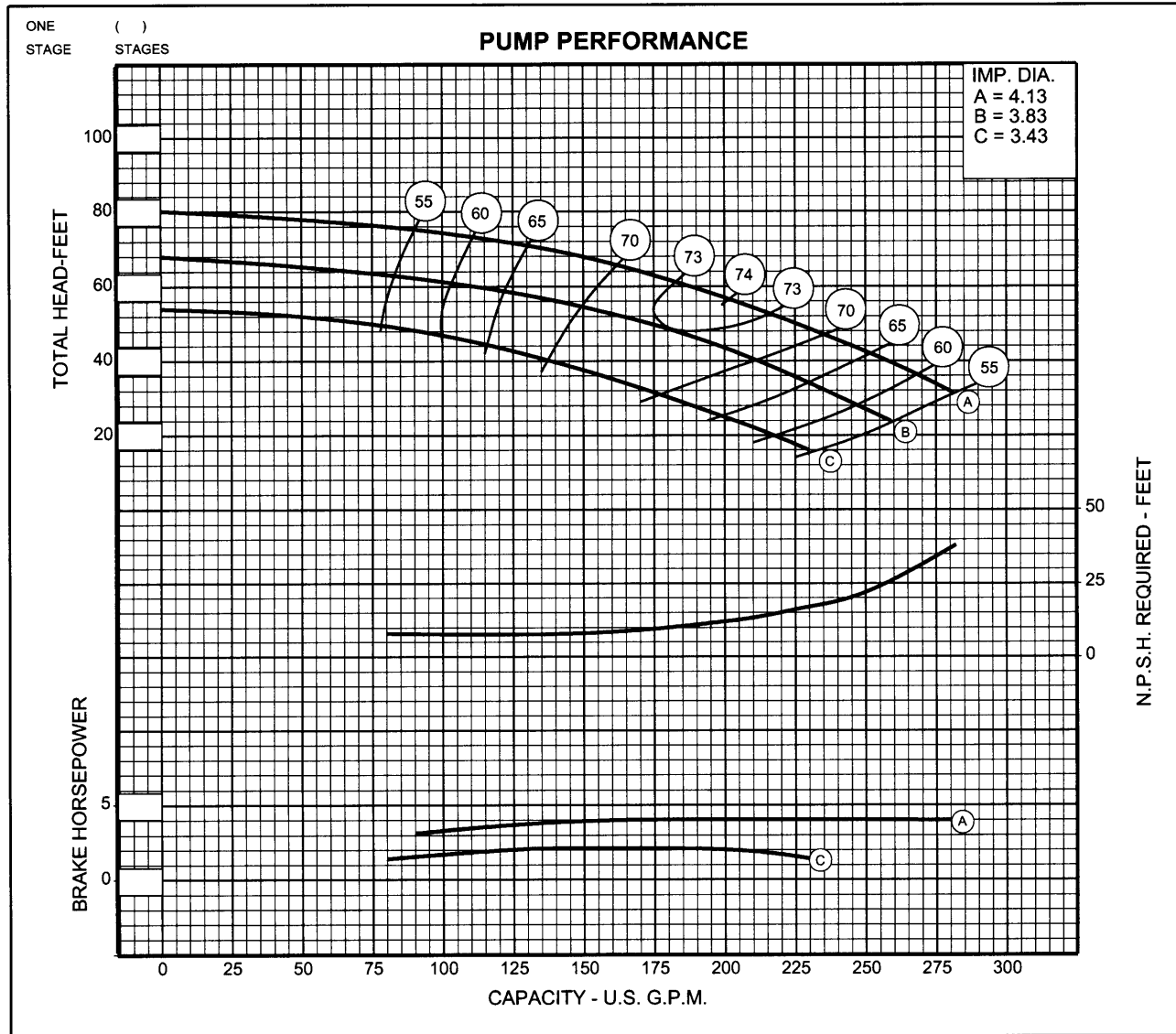
	No. Stages	Eff. Change	MATERIAL	Eff. Change	6 DRMC 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 5 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 5 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-4	IMP - C.I.	-2	
	2	-2	IMP - NI-RI	-1	
	3	-1	BOWL - BRZ.	-1	
	4	0	BOWL - NI-R.	-1	



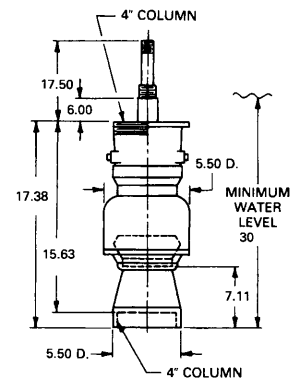
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.34
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	1.60
Bowl Weight, 1st Stage - Lbs.	100	WR^2	0.03
Bowl Weight, Ea. Add. Stage - Lbs.	25	Running Position (above seat) - In.	0.187
Allowable Shaft Stretch - Inches	.36	Submergence - Inches	16
Maximum Working Pressure - PSI	530	Max. Bowl Brq Clearance - In. Dia.	0.009
Maximum Hydro Pressure - PSI	795	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	3.38	Max Bowl O.D. - Inches	5.63
Rotor Weight 1st/add stages - (K_a)	8.4/3.7	Suct Bell O.D. - Inches	5.50
Add 4.25" per additional stage.		Maximum Number of Stages	20
Discharge - Inches	4	Suction - Inches	4




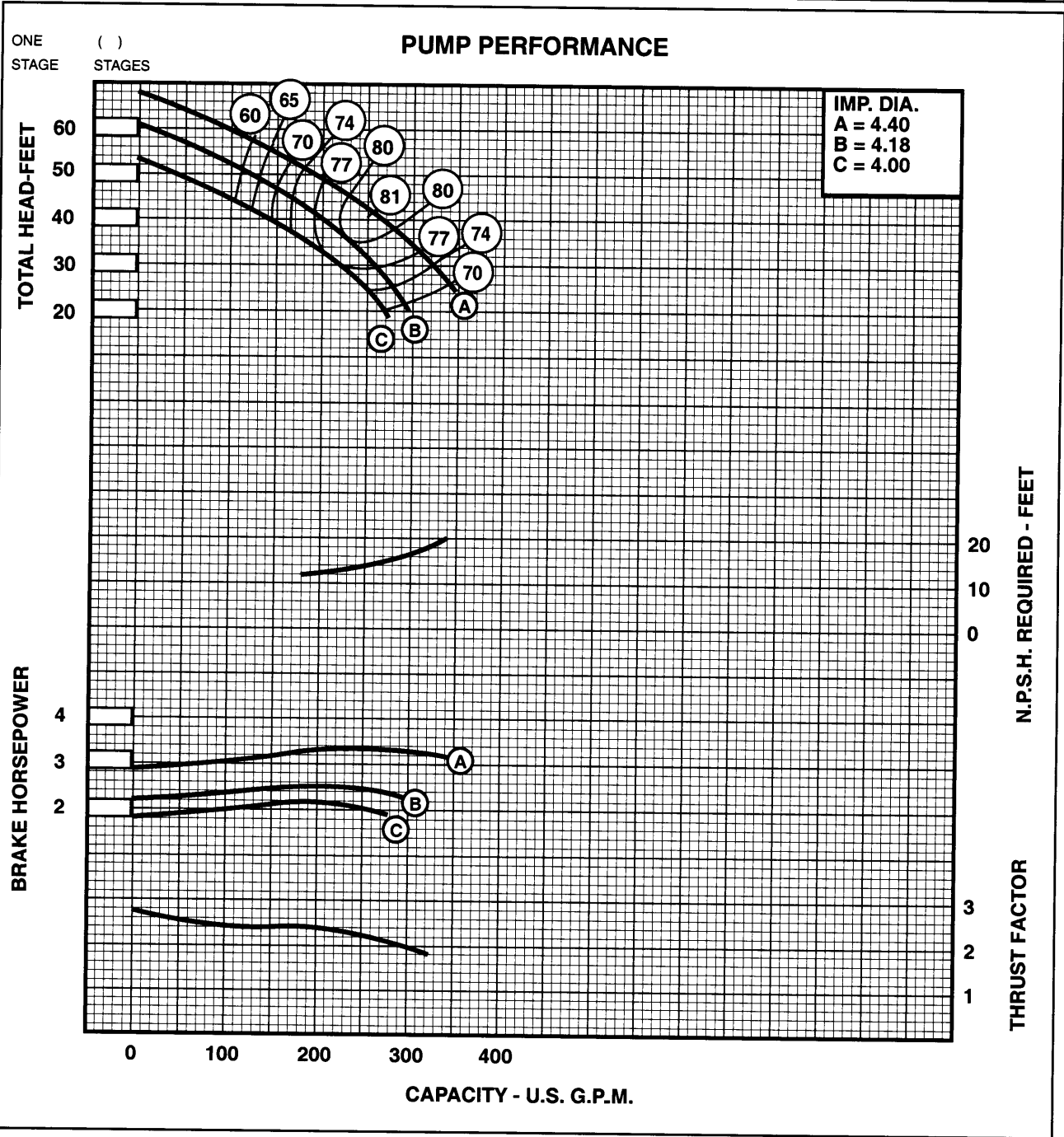
	No. Stages	Eff. Change	MATERIAL	Eff. Change	6 EM 3550 RPM SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 2 OR MORE STAGES. HORSEPOWER SHOWN FOR ONE STAGE BASE ON 2 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-7	MP. - C.I.	-1	
	2	-3.6	MP. - BRZ	0	
	3	-2	MP. - EPOX. C.I.	+2	
	4	-1.5	BOWL - C.I.	-5	
	5	-1	BOWL - EPOX. C.I.	0	



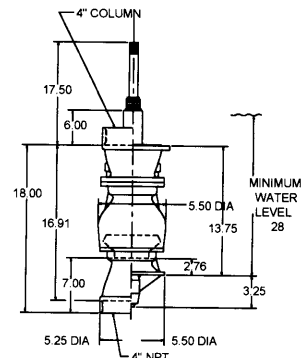
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.43
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	1.74
Bowl Weight, 1st Stage - Lbs.	50	WR^2	0.05
Bowl Weight, Ea. Add. Stage - Lbs.	15	Running Position (above seat) - In.	0.200
Allowable Shaft Stretch - Inches	.27	Submergence - Inches	30
Maximum Working Pressure - PSI	826	Max. Bowl Brg Clearance - In. Dia.	0.014
Maximum Hydro Pressure - PSI	1239	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	4.10	Max Bowl O.D. - Inches	5.50
Rotor Weight 1st/add stages - (K_a)	4.0/4.0	Suct Bell O.D. - Inches	N/A
Add 4.43" per additional stage.		Maximum Number of Stages	25
Discharge - Inches	4	Suction - Inches	4




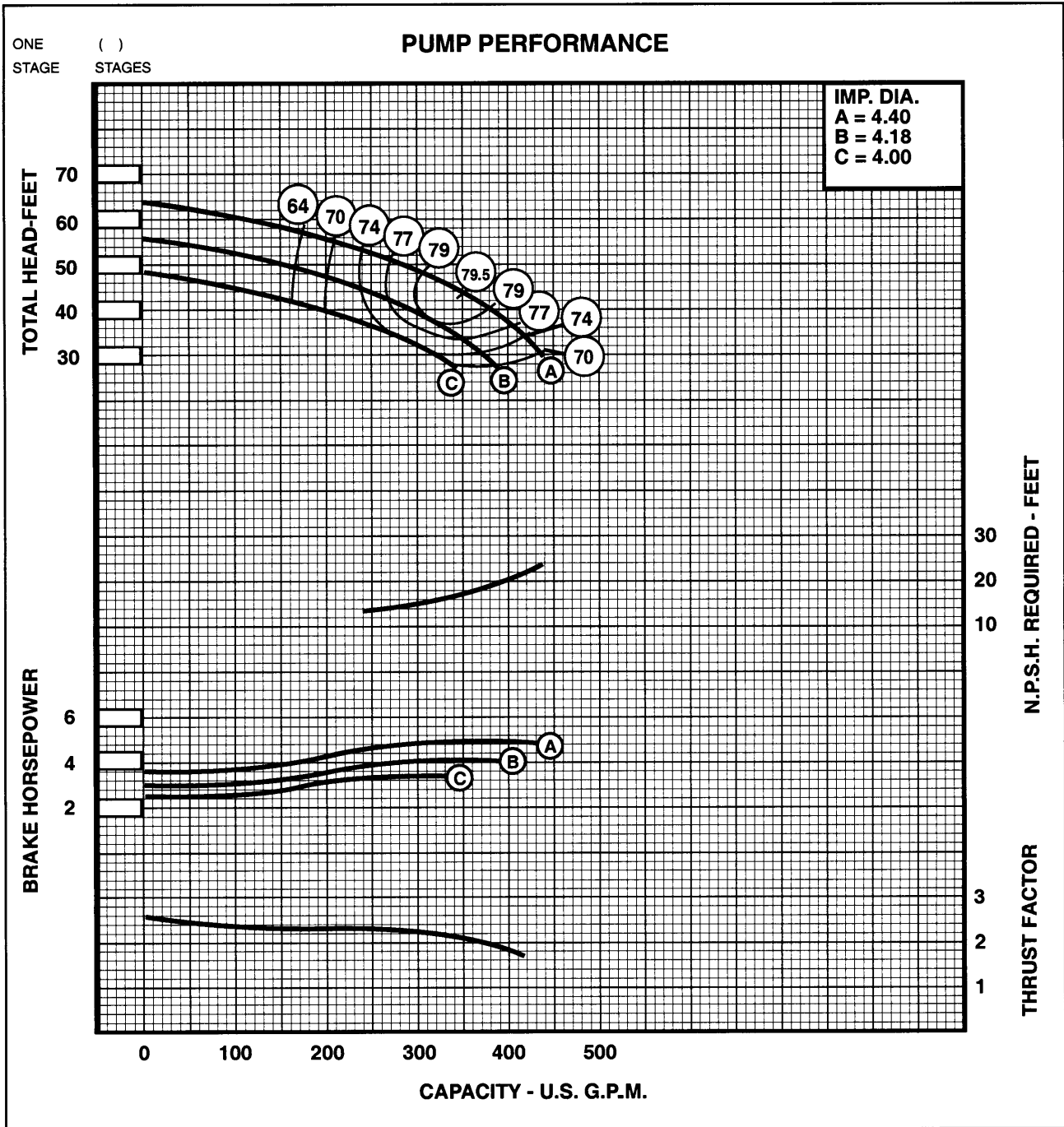
	No. Stages	Eff. Change	MATERIAL	Eff. Change	6 GM 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 4 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 4 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-3	IMP - C.I.	-1	
	2	-2	IMP - NI-RI	-1	
	3	-1	BOWL- BRZ.	-3	
	4	0	BOWL- NI-R.	-3	



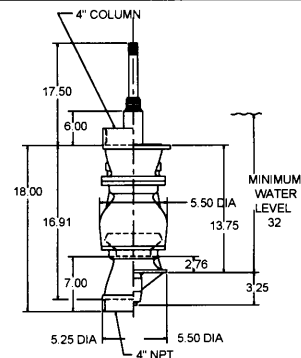
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.34
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K _t	2.20
Bowl Weight, 1st Stage - Lbs.	60	WR2	0.03
Bowl Weight, Ea. Add. Stage - Lbs.	16	Running Position (above seat)-In.	0.125
Allowable Shaft Stretch - Inches	.25	Submergence- Inches	28
Maximum Working Pressure - PSI	400	Max. Bowl Brg Clearance-In. Dia.	0.009
Maximum Hydro Pressure - PSI	600	Max Wear Ring Clearance-In. Dia.	0.018
Impeller Eye Area - Sq. In.	6.28	Max Bowl O.D. - Inches	5.50
Rotor Weight 1st/add stages-(K _a)	9.3/3.8	Suct Bell O.D. - Inches	5.50
Add 5.25" per additional stage.		Maximum Number of Stages	15
Discharge - Inches	4	Suction - Inches	4




	No. Stages	Eff. Change	MATERIAL	Eff. Change	6 GH 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 4 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 4 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-3	IMP - C.I.	-1	
	2	-2	IMP - NI-RI	-1	
	3	-1	BOWL- BRZ.	-3	
	4	0	BOWL- NI-R.	-3	



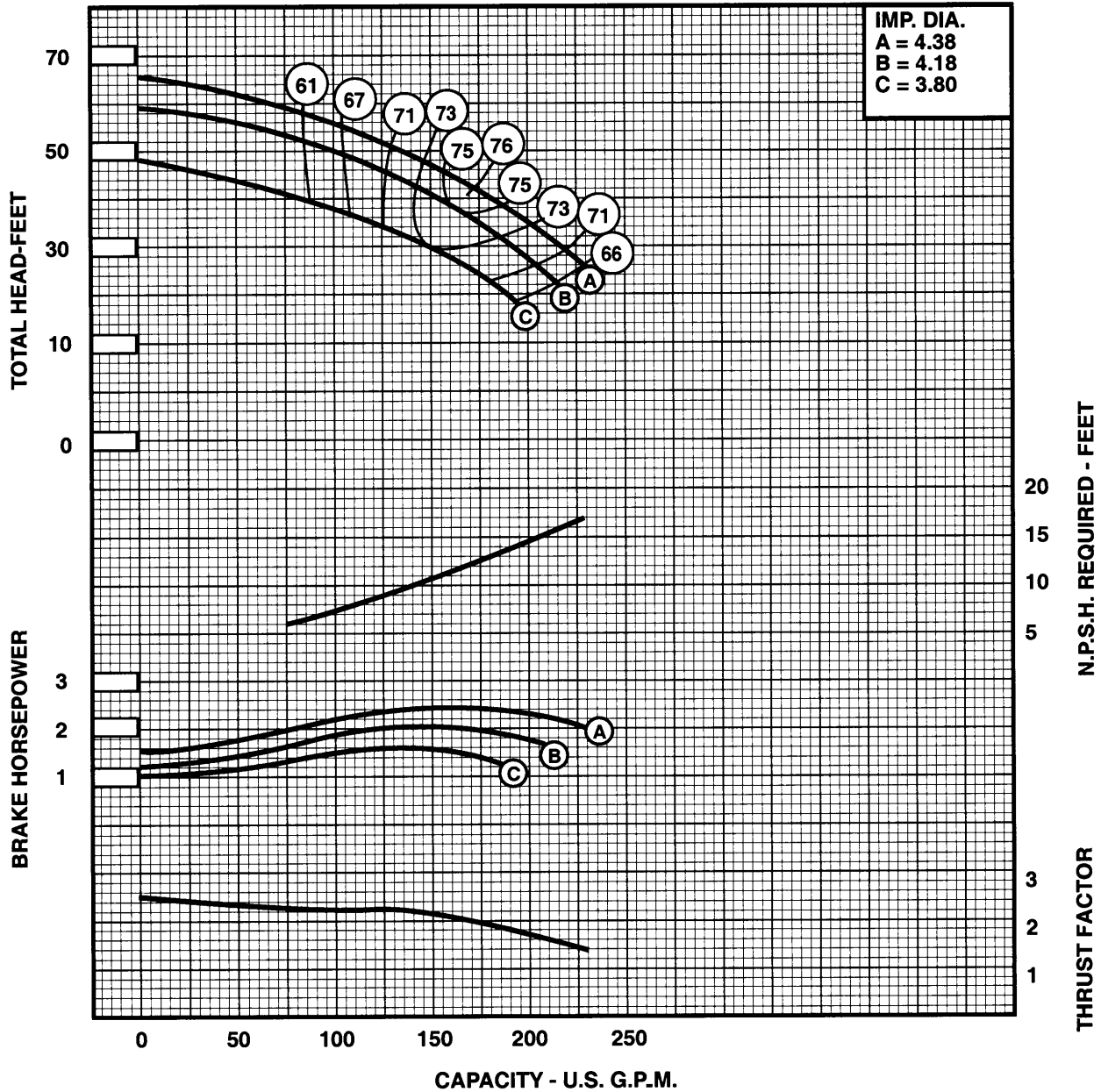
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.34
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	2.20
Bowl Weight, 1st Stage - Lbs.	60	WR ²	0.03
Bowl Weight, Ea. Add. Stage - Lbs.	16	Running Position (above seat)-In.	0.125
Allowable Shaft Stretch - Inches	.25	Submergence- Inches	32
Maximum Working Pressure - PSI	400	Max. Bowl Brq Clearance-In.Dia.	0.009
Maximum Hydro Pressure - PSI	600	Max Wear Ring Clearance-In.Dia.	0.018
Impeller Eye Area - Sq. In.	6.28	Max Bowl O.D. - Inches	5.50
Rotor Weight 1st/add stages-(K_A)	9.3/3.8	Suct Bell O.D. - Inches	5.50
Add 5.25" per additional stage.		Maximum Number of Stages	15
Discharge - Inches	4	Suction - Inches	4



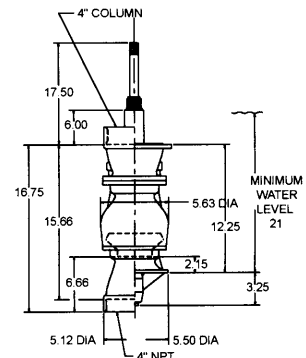
	No. Stages	Eff. Change	MATERIAL	Eff. Change	6 RKLC 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 4 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 4 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-2	IMP - C.I.	-2	
	2	-2	IMP - NI-RI	-1	
	3	-1	BOWL- BRZ.	0	
	4	0	BOWL- NI-R.	-1	


ONE ()
STAGE STAGES

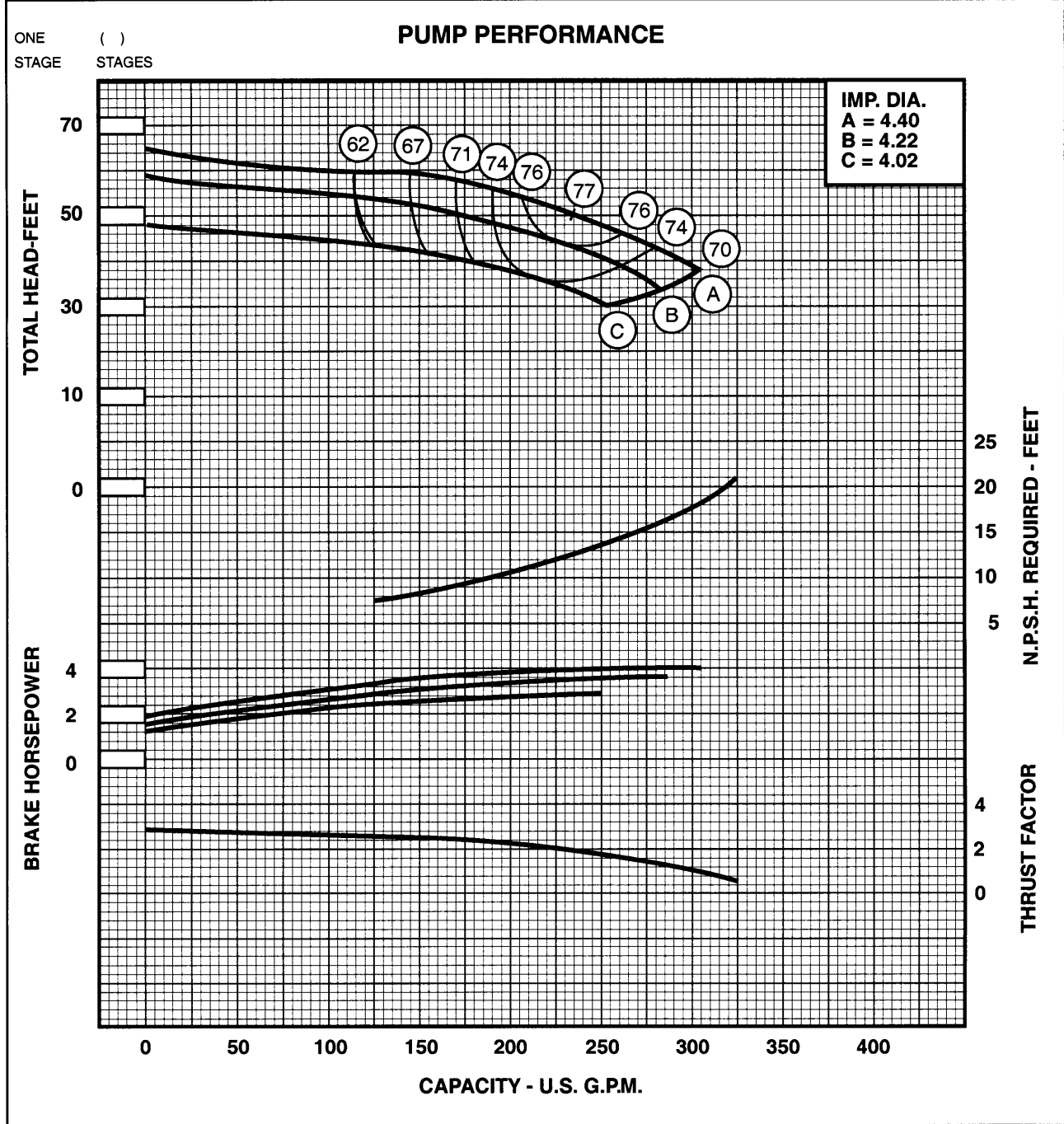
PUMP PERFORMANCE



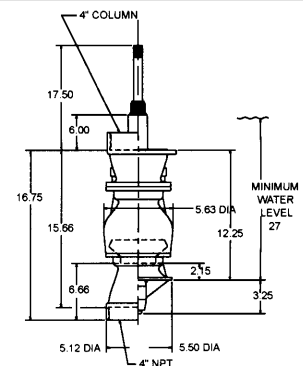
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.28
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	2.40
Bowl Weight, 1st Stage - Lbs.	100	WR^2	0.03
Bowl Weight, Ea. Add. Stage - Lbs.	25	Running Position (above seat)-In.	0.250
Allowable Shaft Stretch - Inches	.50	Submergence- Inches	.21
Maximum Working Pressure - PSI	530	Max. Bowl Brg Clearance-In.Dia.	0.009
Maximum Hydro Pressure - PSI	795	Max Wear Ring Clearance-In.Dia.	0.018
Impeller Eye Area - Sq. In.	3.88	Max Bowl O.D. - Inches	5.63
Rotor Weight 1st/add stages-(K_A)	8.3/3.6	Suct Bell O.D. - Inches	5.50
Add 4.25" per additional stage.		Maximum Number of Stages	17
Discharge - Inches	4	Suction - Inches	4




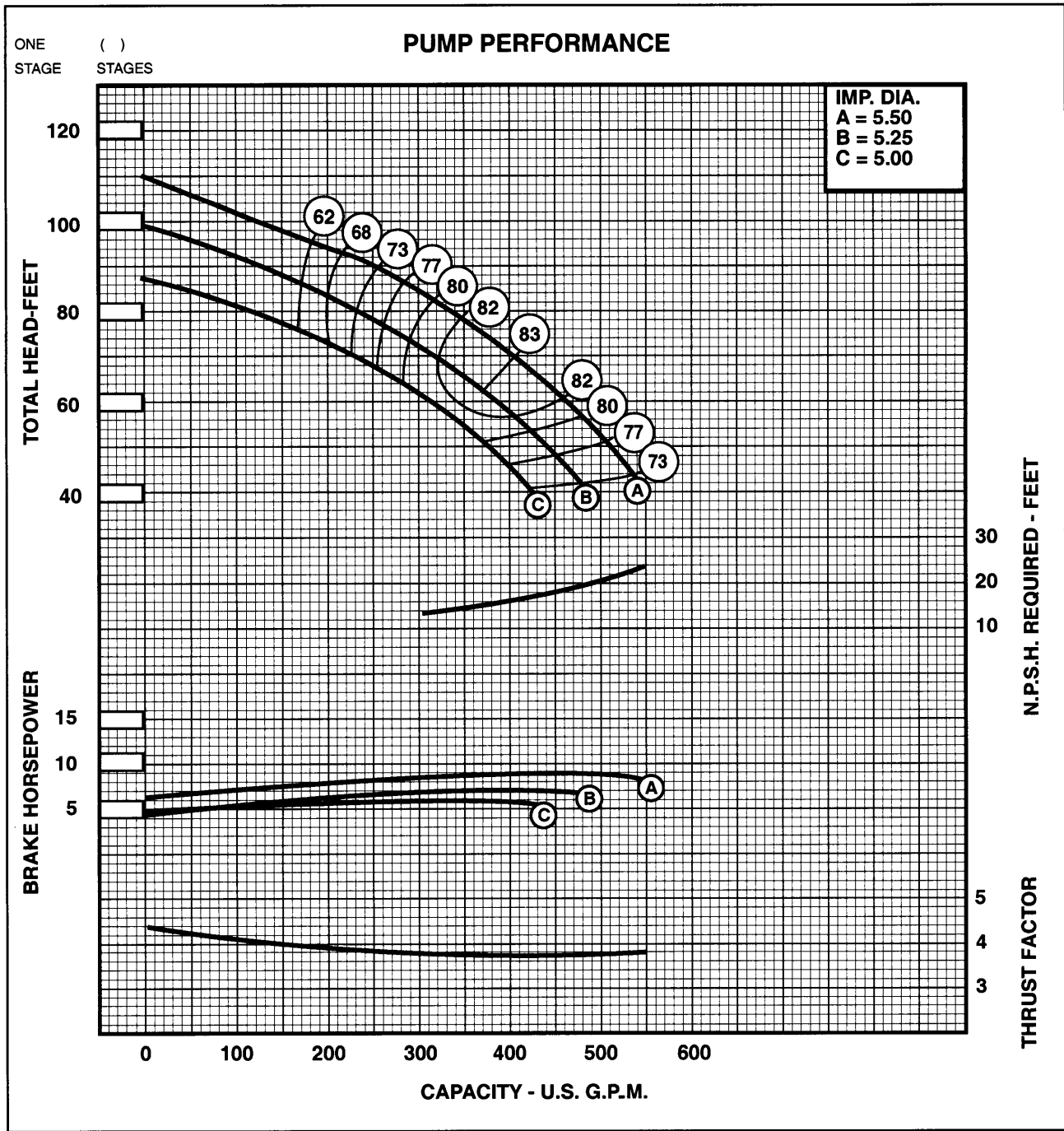
	No. Stages	Eff. Change	MATERIAL	Eff. Change	6 RKHC 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 4 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 4 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-2	IMP. - C.I.	-2	
	2	-2	IMP. - NI-RI	-1	
	3	-1	BOWL - BRZ.	0	
	4	0	BOWL - NI-R.	-1	



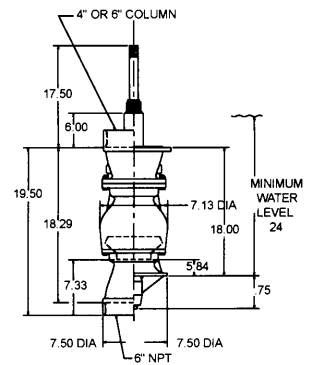
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.34
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	2.50
Bowl Weight, 1st Stage - Lbs.	100	WR ²	0.03
Bowl Weight, Ea. Add. Stage - Lbs.	25	Running Position (above seat) - In.	0.125
Allowable Shaft Stretch - Inches	.50	Submergence - Inches	27
Maximum Working Pressure - PSI	530	Max. Bowl Brg Clearance - In. Dia.	0.009
Maximum Hydro Pressure - PSI	795	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	4.32	Max Bowl O.D. - Inches	5.63
Rotor Weight 1st/add stages - (K_a)	7.9/3.2	Suct Bell O.D. - Inches	5.50
Add 4.25" per additional stage.		Maximum Number of Stages	17
Discharge - Inches	4	Suction - Inches	4




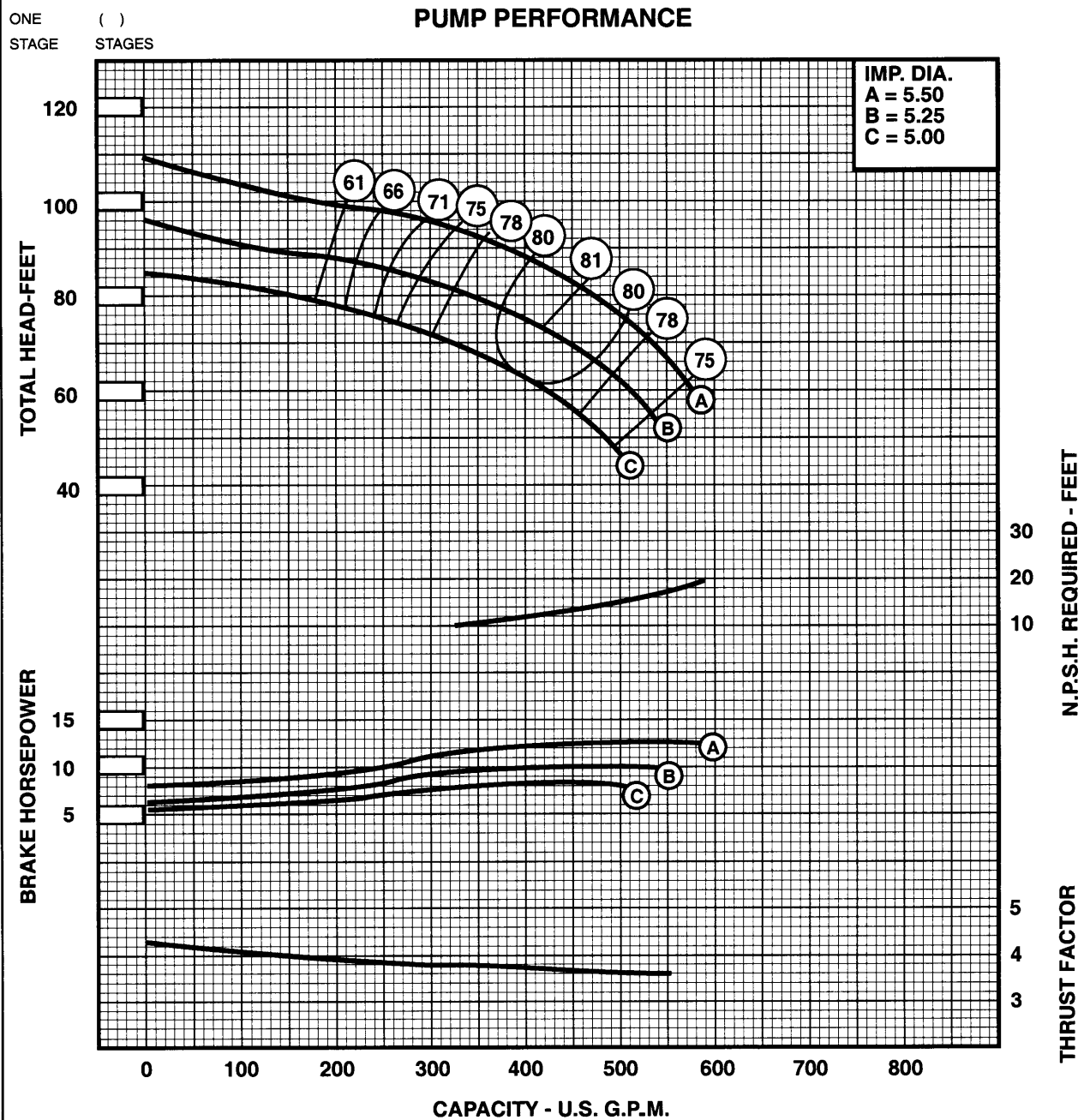
	No. Stages	Eff. Change	MATERIAL	Eff. Change	7 CL 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 3 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 3 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-3	IMP - C.I.	-1	
	2	-1	IMP - NI-RI	-1	
	3	0	BOWL- BRZ.	-3	
	4		BOWL- NI-R.	-3	



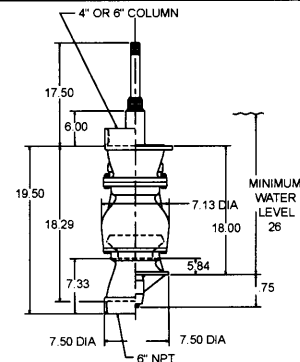
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.44
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	3.70
Bowl Weight, 1st Stage - Lbs.	84	WF2	0.01
Bowl Weight, Ea. Add. Stage - Lbs.	30	Running Position (above seat) - In.	0.125
Allowable Shaft Stretch - Inches	.25	Submergence - Inches	24
Maximum Working Pressure - PSI	400	Max. Bowl Brg Clearance - In. Dia.	0.009
Maximum Hydro Pressure - PSI	600	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	7.56	Max Bowl O.D. - Inches	7.13
Rotor Weight 1st/add stages - (K_a)	9.7/4.7	Suct Bell O.D. - Inches	7.50
Add 6.25" per additional stage.		Maximum Number of Stages	8
Discharge - Inches	4, 6	Suction - Inches	6




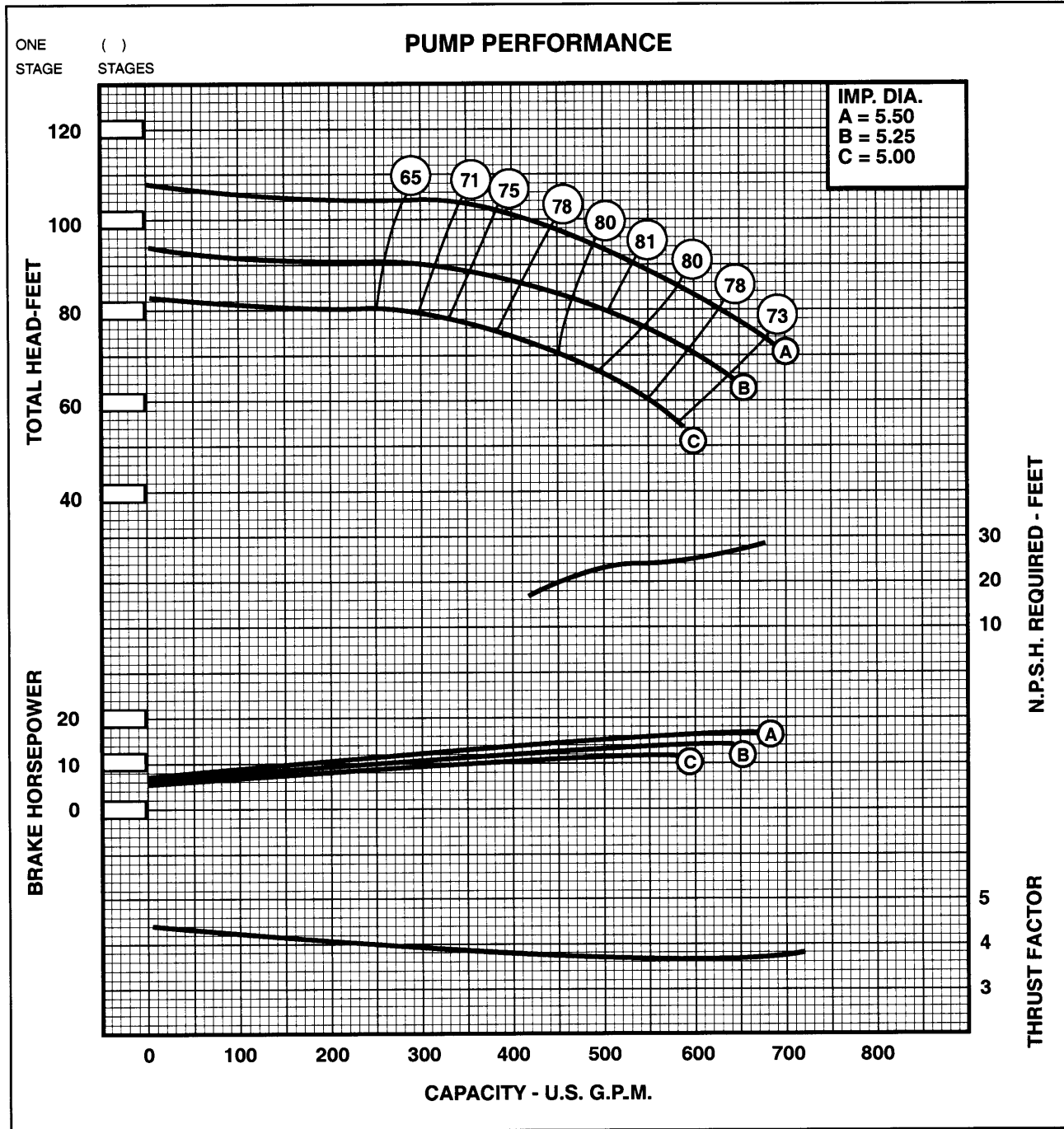
	No. Stages	Eff. Change	MATERIAL	Eff. Change	7 CM 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 3 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 3 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-3	IMP - C.I.	-1	
	2	-1	IMP - NI-RI	-1	
	3	0	BOWL- BRZ.	-3	
	4		BOWL- NI-R.	-3	



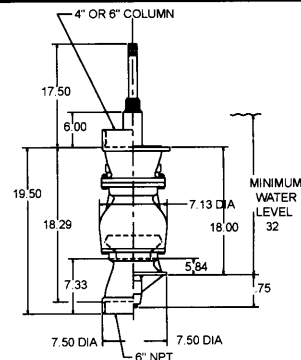
Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.44
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	3.00
Bowl Weight, 1st Stage - Lbs.	84	WR^2	0.16
Bowl Weight, Ea. Add. Stage - Lbs.	30	Running Position (above seat) - In.	0.125
Allowable Shaft Stretch - Inches	.25	Submergence - Inches	26
Maximum Working Pressure - PSI	400	Max. Bowl Brg Clearance - In. Dia.	0.009
Maximum Hydro Pressure - PSI	600	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	7.56	Max Bowl O.D. - Inches	7.13
Rotor Weight 1st/add stages - (K_a)	9.7/4.7	Suct Bell O.D. - Inches	7.50
Add 6.25" per additional stage.		Maximum Number of Stages	8
Discharge - Inches	4.6	Suction - Inches	6




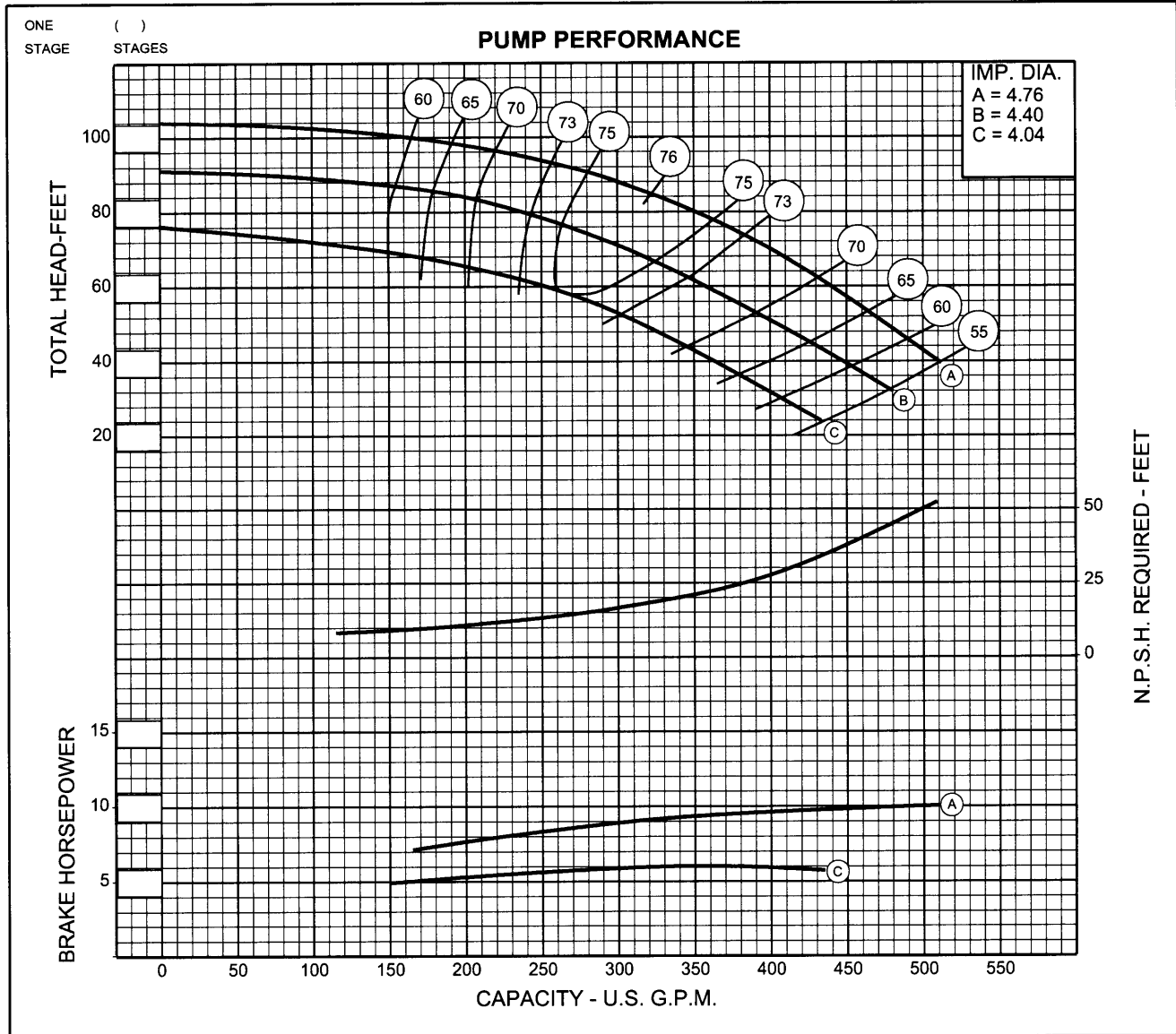
	No. Stages	Eff. Change	MATERIAL	Eff. Change	7 CEH 3500 R.P.M. SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 3 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 3 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-3	IMP - C.I.	-1	
	2	-1	IMP - NI-RI	-1	
	3	0	BOWL - BRZ.	-3	
	4		BOWL - NI-R.	-3	



Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.44
Pump Shaft Diameter - Inches	1.000	Thrust Factor - K_t	3.70
Bowl Weight, 1st Stage - Lbs.	84	WR ²	0.01
Bowl Weight, Ea. Add. Stage - Lbs.	30	Running Position (above seat) - In.	0.125
Allowable Shaft Stretch - Inches	.25	Submergence - Inches	32
Maximum Working Pressure - PSI	400	Max. Bowl Brg Clearance - In. Dia.	0.009
Maximum Hydro Pressure - PSI	600	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	7.56	Max Bowl O.D. - Inches	7.13
Rotor Weight 1st/add stages - (K_a)	9.7/4.7	Suct Bell O.D. - Inches	7.50
Add 6.25" per additional stage.		Maximum Number of Stages	8
Discharge - Inches	4, 6	Suction - Inches	6



	No. Stages	Eff. Change	MATERIAL	Eff. Change	7 EM 3550 RPM SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 2 OR MORE STAGES. HORSEPOWER SHOWN FOR ONE STAGE BASE ON 2 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.
	1	-7	IMP. - C.I.	-1	
	2	-4	IMP. - BRZ	0	
	3	-2	IMP. - ENAM. C.I.	+2	
	4	-1	BOWL - C.I.	-4	
5	0	BOWL - ENAM. C.I.	0		



Maximum Operating Speed	3600	Maximum Sphere Size - Inches	0.50
Pump Shaft Diameter - inches	1.000	Thrust Factor - K_t	2.56
Bowl Weight, 1st Stage - Lbs.	71	WR ²	0.09
Bowl Weight, Ea. Add. Stage - Lbs.	22	Running Position (above seat) - In.	0.200
Allowable Shaft Stretch - Inches	.39	Submergence - Inches	30
Maximum Working Pressure - PSI	823	Max. Bowl Brg Clearance - In. Dia.	0.014
Maximum Hydro Pressure - PSI	1234	Max Wear Ring Clearance - In. Dia.	0.018
Impeller Eye Area - Sq. In.	6.05	Max Bowl O.D. - Inches	6.50
Rotor Weight 1st/add stages - (K_a)	4.4/4.4	Suct Bell O.D. - Inches	N/A
Add 5.19" per additional stage.		Maximum Number of Stages	11
Discharge - Inches	4	Suction - Inches	4

