



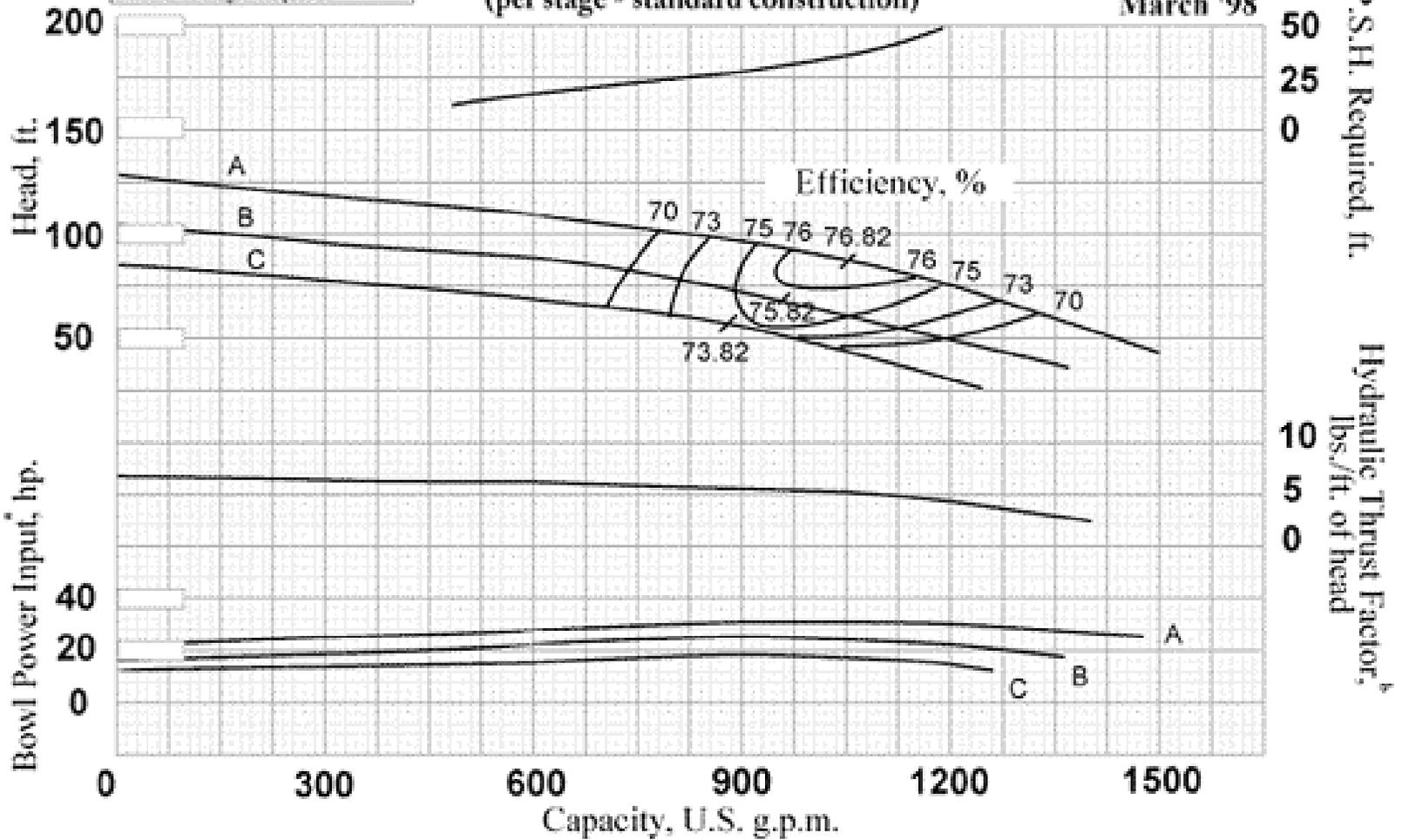
# Performance Curves

8-H-50  
3520 RPM

Number of Stages Required:

(per stage - standard construction)

March '98



## 8-H-50 3520 RPM

Impeller Data						Bowl Data	
Impeller Model	8-H-50					Bowl Model	8-H
Type	Enclosed					Connection Type	Threaded
Diameter: A=	6.145"					Outside Diameter: nominal	7.875"
B=	5.745"					minimum	7.500"
C=	5.345"					Column Pipe Size: minimum	6"
Hydraulic Thrust Factor	5.2 lbs/ft of head @ peak efficiency					maximum	8"
Impeller Weight	5.3#					Suction Pipe Size	6"
Number of Vanes	7					Shaft Size: standard	1.250"
Specific Speed (Ns)	3874					maximum	Consult Factory
Effective Eye Area	12.79 in <sup>2</sup>					Lateral: standard	.625"
W (r sq.)	0.201 lbs -ft <sup>2</sup>					maximum	Consult Factory
Eye Fluid Velocity	0.03 ft/sec/gpm					Shaft Bearing Clearance	0.010"
Peripheral Velocity	15.36 ft/sec/inch of impeller diameter					Impeller Skirt Clearance	0.015"
						Maximum Sphere Size	0.500"
<b>Efficiency Correction for Impeller Data</b>						*Maximum Head @ 1.0 s.g.:	
Number of Stages	1	2	3	4	5+	with nominal outside dia.	868 ft
Deduct No. Points	4	3	2	1	0	with minimum outside dia.	524 ft

Lengths		Operational	
Column Adapter	1.625"	Minimum Required Submergence	Consult Factory
Discharge Case	3.937"	<b>Standard Construction Materials</b>	
Bowl	7.125"	Bowl	A48-30 c.i. (porcelain)
Suction Case	8.125"	Impeller	C83800 br.
Suction Bell	6.750"	Bowl Shaft	416 stainless steel
Submersible Motor Adapter	Consult Factory	Shaft Coupling	C1215 steel
<b>Approximate Shipping Weights</b>		Lock Collet	C1215 steel
First Stage	108#	Cap Screw	grade 5
Additional Stage	38#	Bowl Bearing	C93200 br./buna-N A40
		Suction/Submersible Motor Adapter Bearing	C93200 br.
<b>Miscellaneous</b>		Throttle Bearing	C93200 br.
Hub Projection on Bell Suction	0.000"	Sand Collar	C93200 br.
Cable Guard Height	0.500"	Column Adapter/Discharge Case/Suction Case	A48-30 c.i.
Distance from Impeller Eye to Bottom of Bell Suction	7.500"	Submersible Motor Adapter	A48-30 c.i.
		Tube Adapter	cl. 65-45-12 ductile iron

\* Not valid for submersible applications -- o-rings required if the maximum operating head will exceed 500'