



Performance Curves

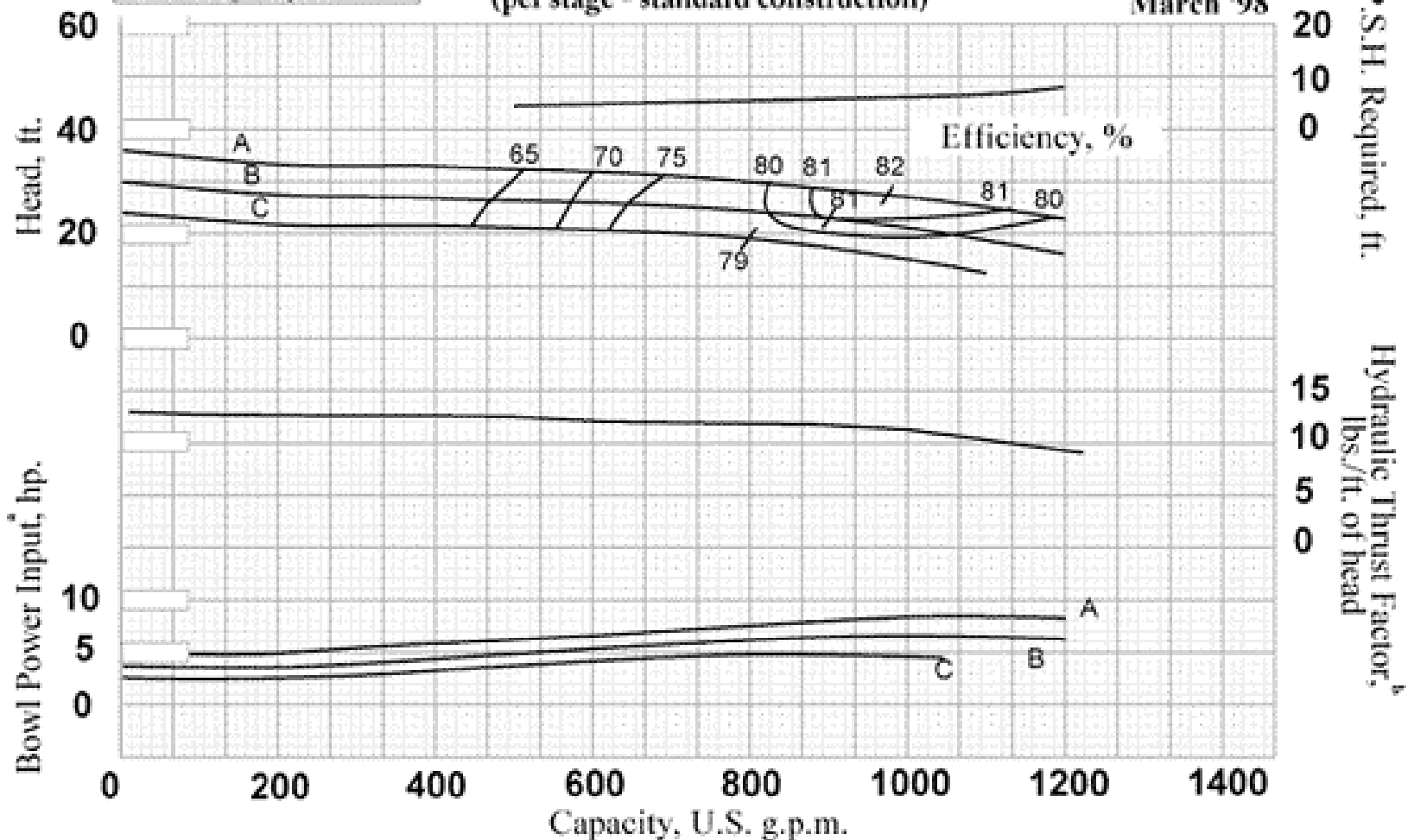
15-M-200

880 RPM

Number of Stages Required:

(per stage - standard construction)

March '98



15-M-200 880 RPM

Impeller Data						Bowl Data	
Impeller Model	15-M-200					Bowl Model	15-M
Type	Enclosed					Connection Type	Bolted
Diameter: A=	11.850"					Outside Diameter: nominal	14.904"
B=	11.050"					minimum	14.875"
C=	10.250"					Column Pipe Size: minimum	10"
Hydraulic Thrust Factor	11.0 lbs/ft of head @ peak efficiency					maximum	12"
Impeller Weight	25#					Suction Pipe Size	12"
Number of Vanes	7					Shaft Size: standard	2.187"
Specific Speed (Ns)	2519					maximum	Consult Factory
Effective Eye Area	31.84 in²					Lateral: standard	.875"
W (r sq.)	2.233 lbs -ft²					maximum	Consult Factory
Eye Fluid Velocity	0.01 ft/sec/gpm					Shaft Bearing Clearance	0.010"
Peripheral Velocity	3.84 ft/sec/inch of impeller diameter					Impeller Skirt Clearance	0.015"
						Maximum Sphere Size	1.125"
Efficiency Correction for Impeller Data						*Maximum Head @ 1.0 s.g.:	
Number of Stages	1	2	3	4	5+	with nominal outside dia.	532 ft
Deduct No. Points	4	3	2	1	0	with minimum outside dia.	514 ft
Lengths				Operational			
Column Adapter	1.500"		Minimum Required Submergence			Consult Factory	
Discharge Case	5.500"		Standard Construction Materials				
Bowl	12.750"		Bowl			A48-30 c.i. (porcelain)	
Suction Case	11.875"		Impeller			C83800 br.	
Suction Bell	9.625"		Bowl Shaft			416 stainless steel	
Submersible Motor Adapter	Consult Factory		Shaft Coupling			C1215 steel	
Approximate Shipping Weights				Lock Collet			C1215 steel
First Stage	440#		Cap Screw			grade 5	
Additional Stage	198#		Bowl Bearing			C93200 br./buna-N A40	
				Suction/Submersible Motor Adapter Bearing			C93200 br.
Miscellaneous				Throttle Bearing			C93200 br.
Hub Projection on Bell Suction	1.000"		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	9.750"		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'