



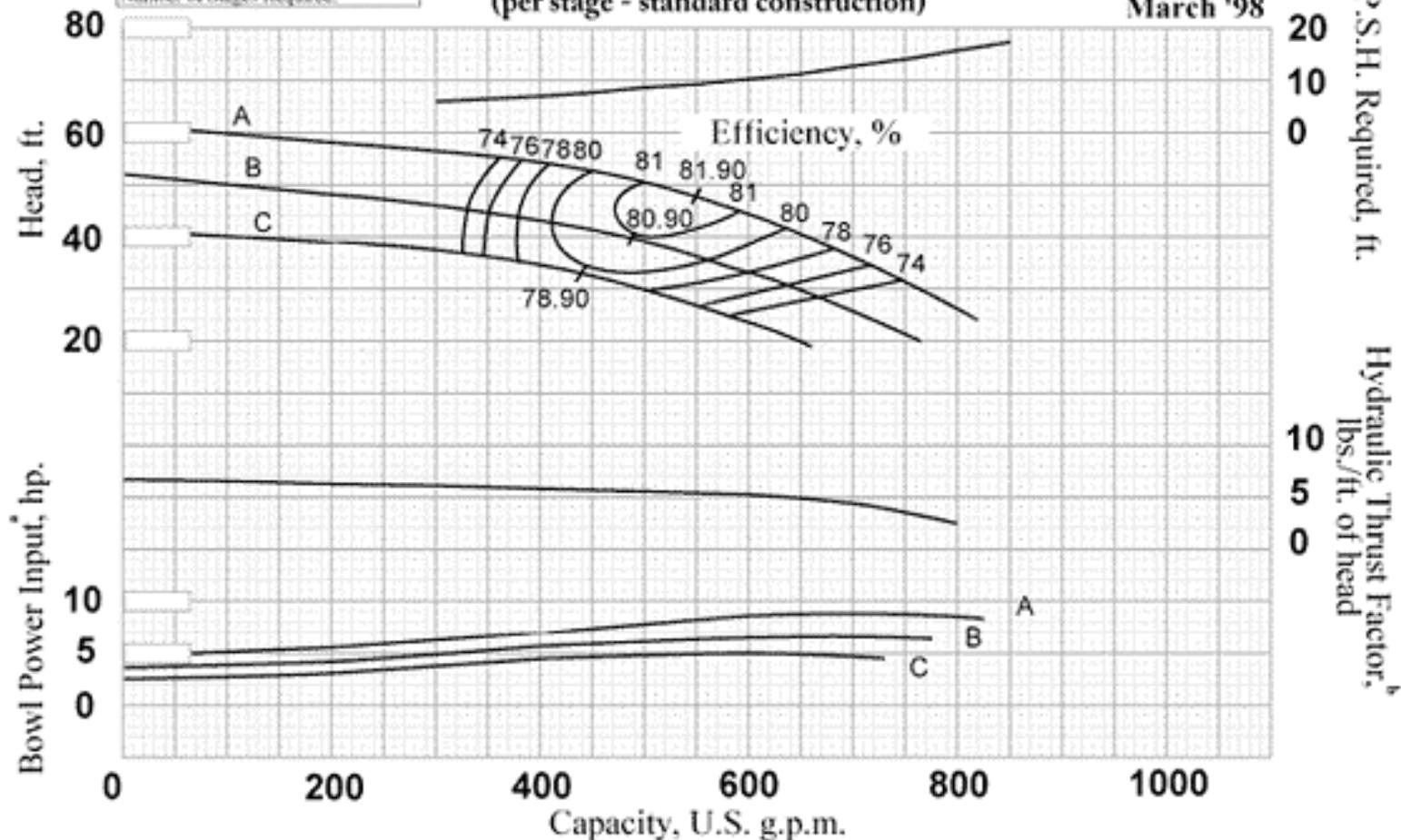
# Performance Curves

10-M-55  
1760 RPM

Number of Stages Required:

(per stage - standard construction)

March '98



## 10-M-55 1760 RPM

Impeller Data						Bowl Data	
Impeller Model	10-M-55					Bowl Model	10-M
Type	Enclosed					Connection Type	Bolted
Diameter: A=	7.850"					Outside Diameter: nominal	9.937"
B=	7.350"					minimum	9.625"
C=	6.850"					Column Pipe Size: minimum	8"
Hydraulic Thrust Factor	5.5 lbs/ft of head @ peak efficiency					maximum	10"
Impeller Weight	9.7#					Suction Pipe Size	8"
Number of Vanes	6					Shaft Size: standard	1.500"
Specific Speed (Ns)	2242					maximum	Consult Factory
Effective Eye Area	12.65 in <sup>2</sup>					Lateral: standard	0.750"
W (r sq.)	0.790 lbs -ft <sup>2</sup>					maximum	Consult Factory
Eye Fluid Velocity	0.02 ft/sec/gpm					Shaft Bearing Clearance	0.010"
Peripheral Velocity	7.68 ft/sec/inch of impeller diameter					Impeller Skirt Clearance	0.015"
						Maximum Sphere Size	0.820"
<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.	769 ft
Deduct No. Points	4	3	2	1	0	with minimum outside dia.	580 ft

Lengths		Operational	
Column Adapter	1.500"	Minimum Required Submergence	Consult Factory
Discharge Case	4.000"	<b>Standard Construction Materials</b>	
Bowl	8.500"	Bowl	A48-30 c.i. (porcelain)
Suction Case	8.750"	Impeller	C83800 br.
Suction Bell	6.500"	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	164#	Cap Screw	grade 5
Additional Stage	61#	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	2.250"	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	6.625"	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'