



Performance Curves

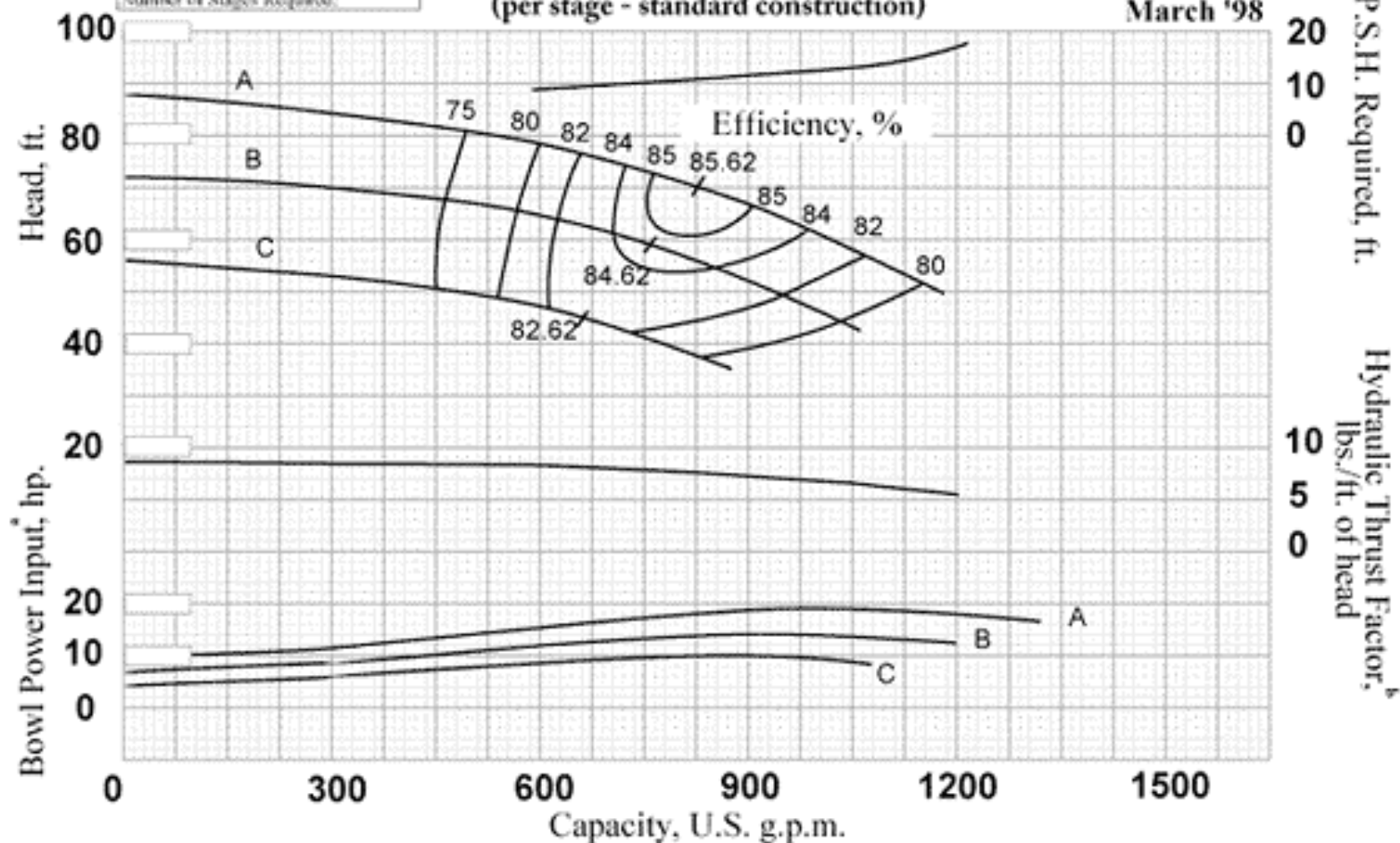
12-M-80

1760 RPM

Number of Stages Required:

(per stage - standard construction)

March '98



12-M-80 1760 RPM

Impeller Data						Bowl Data	
Impeller Model	12-M-80					Bowl Model	12-M
Type	Enclosed					Connection Type	Bolted
Diameter: A=	9.300"					Outside Diameter: nominal	12.000"
B=	8.700"					minimum	11.850"
C=	7.900"					Column Pipe Size: minimum	8"
Hydraulic Thrust Factor	7.6 lbs/ft of head @ peak efficiency					maximum	10"
Impeller Weight	11.7#					Suction Pipe Size	8"
Number of Vanes	7					Shaft Size: standard	1.687"
Specific Speed (Ns)	2076					maximum	Consult Factory
Effective Eye Area	19 in²					Lateral: standard	0.625"
W (r sq.)	0.720 lbs -ft²					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	0.850"
Efficiency Correction for Impeller Data						*Maximum Head @ 1.0 s.g.:	
Number of Stages	1	2	3	4	5+	with nominal outside dia.	897 ft
Deduct No. Points	4	3	2	1	0	with minimum outside dia.	853 ft

Lengths		Operational	
Column Adapter	1.500"	Minimum Required Submergence	Consult Factory
Discharge Case	4.750"	Standard Construction Materials	
Bowl	10.000"	Bowl	A48-30 c.i. (porcelain)
Suction Case	10.125"	Impeller	C83800 br.
Suction Bell	8.500"	Bowl Shaft	416 stainless steel
Submersible Motor Adapter	Consult Factory	Shaft Coupling	C1215 steel
Approximate Shipping Weights		Lock Collet	C1215 steel
First Stage	266#	Cap Screw	grade 5
Additional Stage	107#	Bowl Bearing	C93200 br./buna-N A40
		Suction/Submersible Motor Adapter Bearing	C93200 br.
Miscellaneous		Throttle Bearing	C93200 br.
Hub Projection on Bell Suction	1.625"	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	8.532"	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'