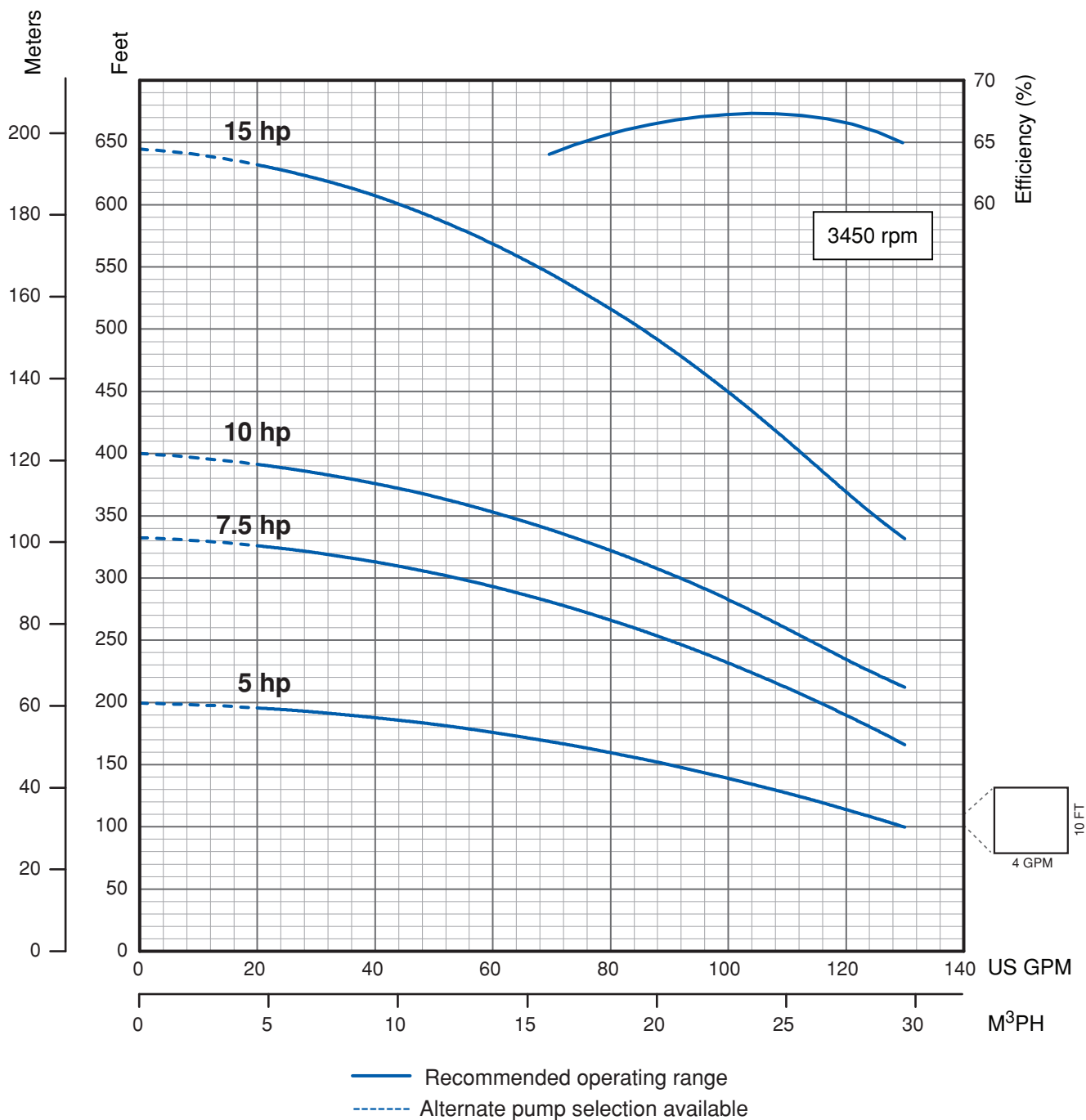


## Model 100ST6 Performance

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**Note:** Performance based on:  
 - Fresh water, 68°F  
 - 6" motor / 3450 rpm



# Submersible Turbine Pumps

## Model 100ST6 Performance

### Dimension Information

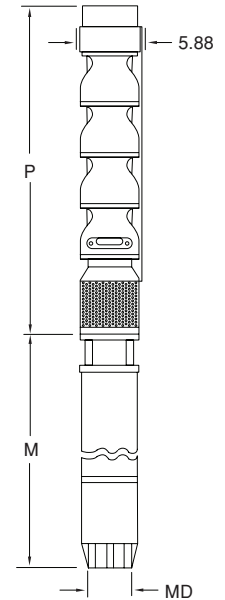
HP	Stages	Trim	Motor Size	P	M*	MD*	Motor Wt	Pump Wt
				Inches	Inches	Inches	Lbs.	Lbs.
5	3	B	6"	27.32	22.90	5.38	101	71
7.5	5	B	6"	34.32	24.20	5.38	108	91
10	6	1A, 5B	6"	37.82	25.40	5.38	116	101
15	10	B	6"	51.82	28.00	5.38	129	141

Note: \*MD diameter = Franklin Electric Motor, M = Maximum Length of Franklin Electric Motor

### Specifications

Minimum Well I.D.	6"
Minimum Submergence Above Inlet Discharge	10 Feet
Maximum Working Pressure	Standard: 350 psi Double Bolted: 675 psi

Note: Refer to Franklin Electric AIM data for motor cooling requirements.



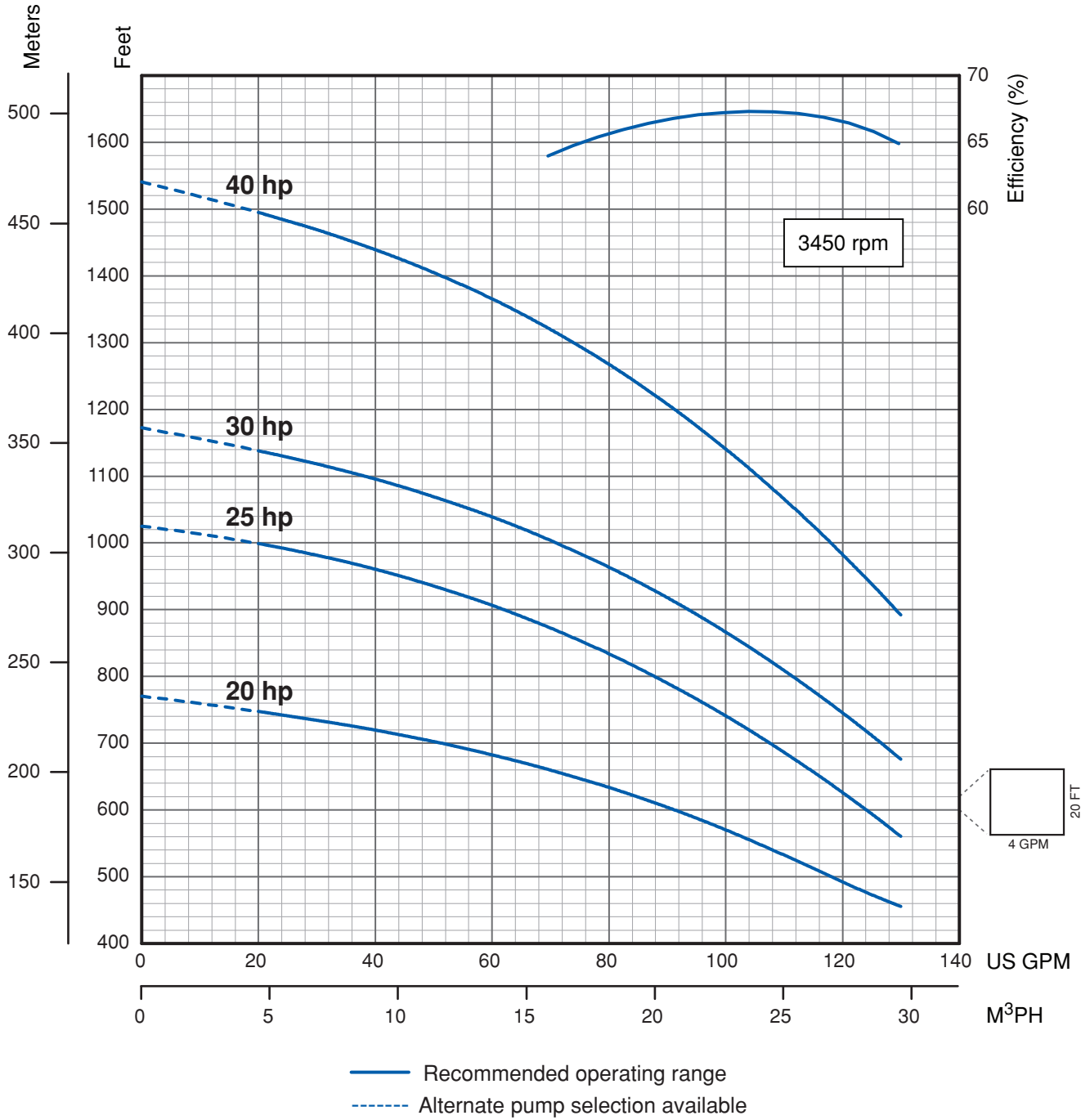
### Materials of Construction

Part Name	Common Material Name	Material Spec Number
Discharge Bracket	Ductile Iron	A536 65-45-12
Top Bowl	Ductile Iron	A536 65-45-12
Intermediate Bowl	Ductile Iron	A536 65-45-12
Bearings, Disch. & Suction	Bronze	B505 C932
Impeller	Stainless Steel	A743 CF-8
Pump Shaft	Stainless Steel	A582 416
Suction Bracket	Ductile Iron	A536 65-45-12
Bowl Bearing	Rubber	Nitrile
Sand Collar	Stainless Steel	A276
Suction Screen	Stainless Steel	A666
Cable Guard	Stainless Steel	A666
Shaft Coupling	Stainless Steel	A276
Upthrust Bolt	Stainless Steel	A320 304
Taper Lock	Stainless Steel	A276
Bolting	Stainless Steel	A320 304



## Model 100ST6 Performance

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**Note:** Performance based on:  
- Fresh water, 68°F  
- 6" motor / 3450 rpm



# Submersible Turbine Pumps

## Model 100ST6 Performance

### Dimension Information

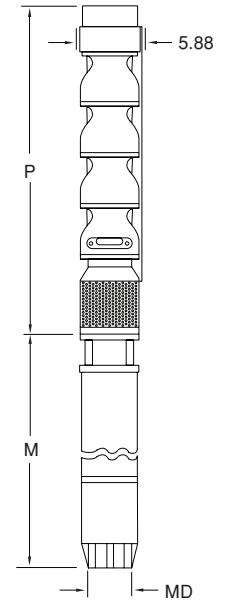
HP	Stages	Trim	Motor Size	P	M*	MD*	Motor Wt	Pump Wt
				Inches	Inches	Inches	Lbs.	Lbs.
20	10	9A, 1B	6"	51.82	30.60	5.38	145	141
25	14	7A, 7B	6"	65.32	33.10	5.38	156	182
30	15	13A, 2B	6"	69.32	35.70	5.38	174	192
40	20	18A, 2B	6"	86.82	40.80	5.38	202	242

Note: \*MD diameter = Franklin Electric Motor, M = Maximum Length of Franklin Electric Motor

### Specifications

Minimum Well I.D.	6"
Minimum Submergence Above Inlet Discharge	10 Feet
Maximum Working Pressure	Standard: 350 psi Double Bolted: 675 psi

Note: Refer to Franklin Electric AIM data for motor cooling requirements.



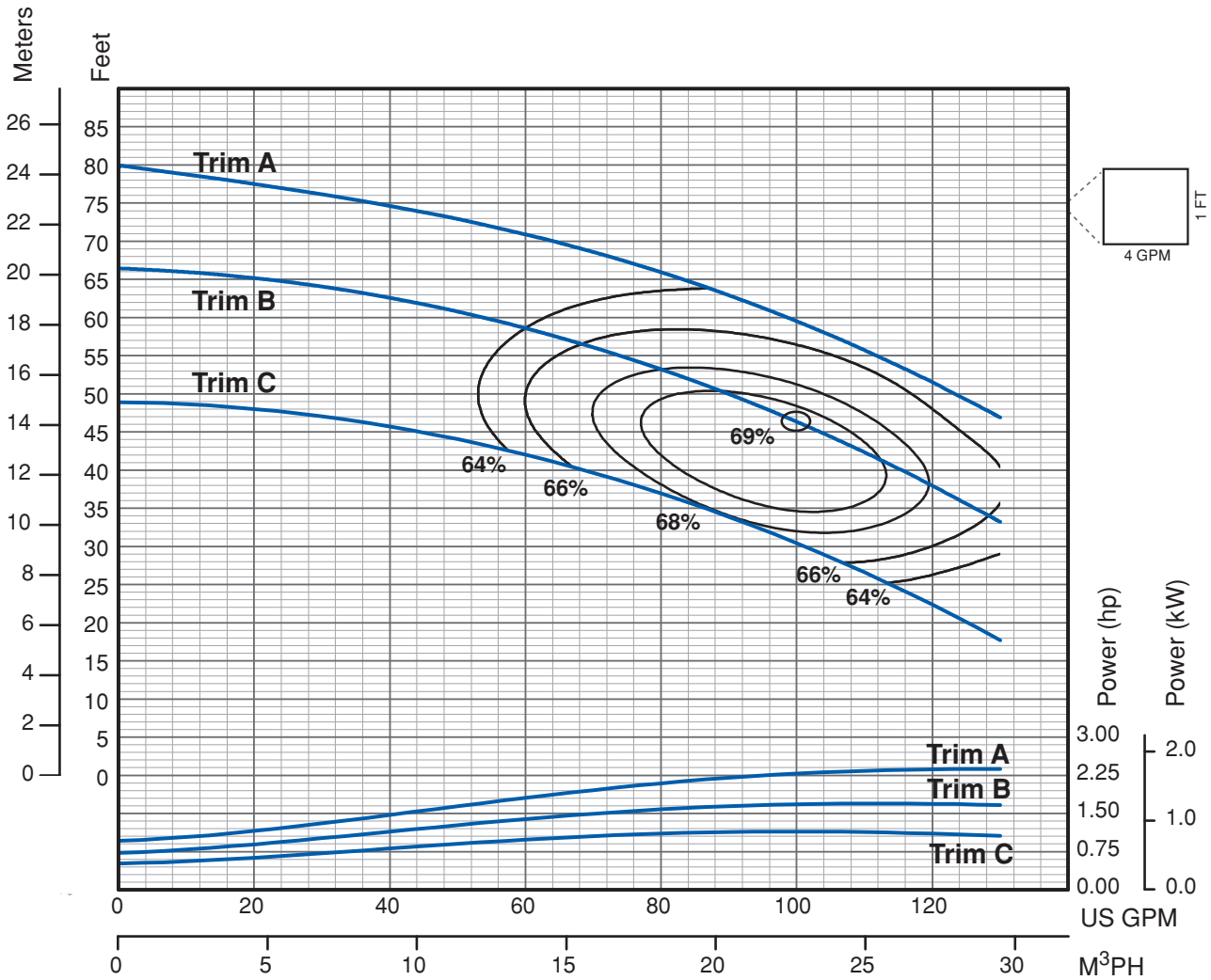
### Materials of Construction

Part Name	Common Material Name	Material Spec Number
Discharge Bracket	Ductile Iron	A536 65-45-12
Top Bowl	Ductile Iron	A536 65-45-12
Intermediate Bowl	Ductile Iron	A536 65-45-12
Bearings, Disch. & Suction	Bronze	B505 C932
Impeller	Stainless Steel	A743 CF-8
Pump Shaft	Stainless Steel	A582 416
Suction Bracket	Ductile Iron	A536 65-45-12
Bowl Bearing	Rubber	Nitrile
Sand Collar	Stainless Steel	A276
Suction Screen	Stainless Steel	A666
Cable Guard	Stainless Steel	A666
Shaft Coupling	Stainless Steel	A276
Upthrust Bolt	Stainless Steel	A320 304
Taper Lock	Stainless Steel	A276
Bolting	Stainless Steel	A320 304

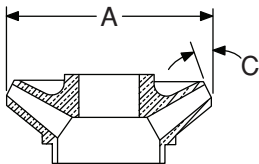


## Model 100ST6 Performance

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**Note:** Efficiencies are typical, not guaranteed. Efficiency correction required for low stage count (1 stage-6%, 2 stage-2%, 3 stage-1%)  
Pumps are intentionally designed to utilize some portion of the motor's 1.15 service factor.  
Bowl #9 begins transition to double-bolted (8 bolts @ bottom, 14 bolts @ top)  
Nominal RPM: 3450



### Impeller Dimensions

Trim	A Diameter	C Angle
A	4.688"	5°
B	4.200"	0°
C	3.688"	0°

