

# **mody** ELECTRIC SUBMERSIBLE ALL STAINLESS STEEL PUMPS

## **M100 2" SS SERIES-60Hz**

**PORTABLE ELECTRIC  
ALL STAINLESS STEEL  
SUBMERSIBLE PUMPS FOR  
CORROSIVE & ABRASIVE  
APPLICATIONS**

**PH RANGE OF 2-10**

### **1.3 HP (1kW)**

**M 100ST/SS / M 100T/SS (1 or 3 Phase)  
2"(50mm) NPT or Hose**

### **1.5 HP (1.1kW)**

**M 106ST/SS / M106T/SS (1 or 3 Phase)  
2"(50mm) NPT or Hose**

### **2 HP (1.5kW)**

**M 120T/SS  
2"(50mm) NPT or Hose**

### **2 HP (1.5kW)**

**M 126T/SS  
2"(50mm) NPT or Hose**

### **2 HP (1.5kW)**

**M 154ST/SS / M 154T/SS (1 or 3 Phase)  
2"(50mm) NPT or Hose**

## **DESIGN ADVANTAGES**

- Available in all Stainless Steel materials for corrosive and abrasive applications. These pumps are capable of handling contaminated fluids typical at most landfills, nuclear power plants, mines, paper & pulp industries with a pH range of 2 - 10.
- Slimline Design with centerline discharge to meet the demands of the most critical applications.
- Choice of impeller materials:
  - 1) 316 Stainless Steel for sea water and corrosive applications and;
  - 2) Nitride Hardened 410 Stainless Steel for abrasive applications. (Standard)
- Choice of Mechanical Seals:
  - 1) Tandem Mechanical Seals, TC/TC (+ ph 5) and;
  - 2) Tandem Mechanical Seals, SC/SC (- ph 5) (Standard)



#### **Illinois Location:**

(847) 841-7867  
860 Church Rd Elgin, IL 61

#### **Minnesota Location:**

(651) 758-7867  
330 Mill Bay South Suite  
Afton, MN 55001

PumpSupplyInc.com



**PUMP SUPPLY  
INCORPORATED**

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## ELECTRIC SUBMERSIBLE ALL STAINLESS STEEL PUMPS

### M100 2" SS SERIES-60Hz

### MATERIALS OF CONSTRUCTIONS AND ENGINEERING DATA

#### STANDARD CONSTRUCTION

Top Discharge Outlet	316SS
Outer Casing	316SS
Stator Casing	316SS
Strainer	316SS
Wear Plate	316SS
Diffuser	316SS
Impeller	410SS
Sand Guard	316SS
Shaft	431SS
Tandem Mech Seals	SC/SC
O-Rings & Elastomers	Viton®
Exposed Hardware	316SS
Cable Type	SOOW
Oil	Food Grade
Ball Bearing Types	Radial

#### PUMP

- A removable Top Discharge Outlet, cast/fabricated male NPT is standard on all pump models, hose outlet is optional.
- External Sand Guard behind the Impeller prevents sand/debris from damaging mechanical seal face.
- Field adjustable all stainless steel Diffuser / Wear Plate optimizes the efficiency throughout the life of the pump.

#### MOTOR

Continuous Duty Rated Squirrel Cage Induction Motor rated IP68 completely submersible, Class H Insulation (180°C) tripple dipped and epoxied end windings.

Speed: 3400 RPM @ 60Hz

Maximum temperature of pump liquid: 104°F / 40°C

Maximum Start/Stop per hour: 15

#### POWER SUPPLY

1 & 3 phase, 60 Hz. AC Supply. Available in any voltage / frequency combination. 115/208/220/230/460/575/1000V)

#### BALL BEARINGS

The rotor rotates on two single row, deep groove ball bearings, enclosed with high temperature grease containing special anti-corrosion additive.

#### SHAFT SEAL

Tandem SC/SC & SC/SC Upper and lower mechanical seals wholly enclosed in a pressure compensated oil chamber. TC/TC are optional.

#### POWER CABLE

Waterproof/oil proof, rubber-insulated, neoprene-sheathed copper conductor flexible cable, 50ft, (15m) length (standard).

#### CABLE ENTRY SEAL

Water Dam type cable entry seal designed without Silicones or Epoxies.

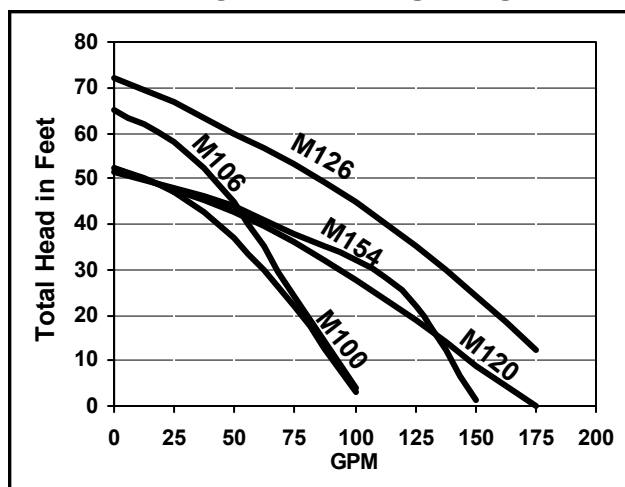
#### CABLE STRAIN RELIEF

Three foot long stainless steel cable sheath terminated at the cable gland is provided for strain relief only on pump model M154.

#### SUBMERGENCE

Submergence below liquid surface, min. 5" (127mm) max. 50' (15m)

#### PERFORMANCE CURVES



MODEL	MOTOR		CURRENT AMPS	DIMENSIONS (In.)		STRAINER	WEIGHT*
	HP	PH		H	W		
			230/460V 115/220V				
						HOLE SIZE (In.)	Lbs.
M 100 T/SS	1.3	3	4 / 2	12-1/4	6-1/4	1/4	58
M 100 S/T/SS	1.3	1	19 / 10	13-1/4	6-1/4	1/4	62
M 106 T/SS	1.5	3	4.4 / 2.2	12-1/4	6-1/4	1/4	58
M 106 S/T/SS	1.5	1	19 / 10	13-1/4	6-1/4	1/4	62
M 120 T/SS	2	3	6.8 / 3.4	13-1/2	6-1/4	1/4	62
M 126 T/SS	2	3	6.8 / 3.4	13-1/2	6-1/4	1/4	62
M 154 T/SS	2	3	7.6 / 3.8	25-1/4	7-1/2	1/4	110
M 154 S/T/SS	2	1	NA / 15	26-1/4	7-1/2	1/4	118

\* Weights (Approx. Without Cable)