

# **mody** ELECTRIC SUBMERSIBLE DRAINAGE PUMP

## **MSA SERIES**

**PORTABLE ELECTRIC  
SUBMERSIBLE AGITATOR SUMP  
PUMPS FOR SLUDGE APPLICATIONS**

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**0.5 HP (0.4kW)  
MSA-0.5**

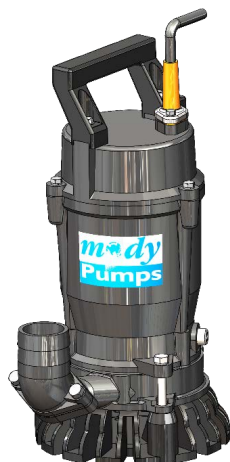
2"(50mm) NPT or Hose

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**1 HP (0.75kW)  
MSA-1**

2"(50mm) NPT or Hose

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## **MSA-0.5/1 DESIGN ADVANTAGES**

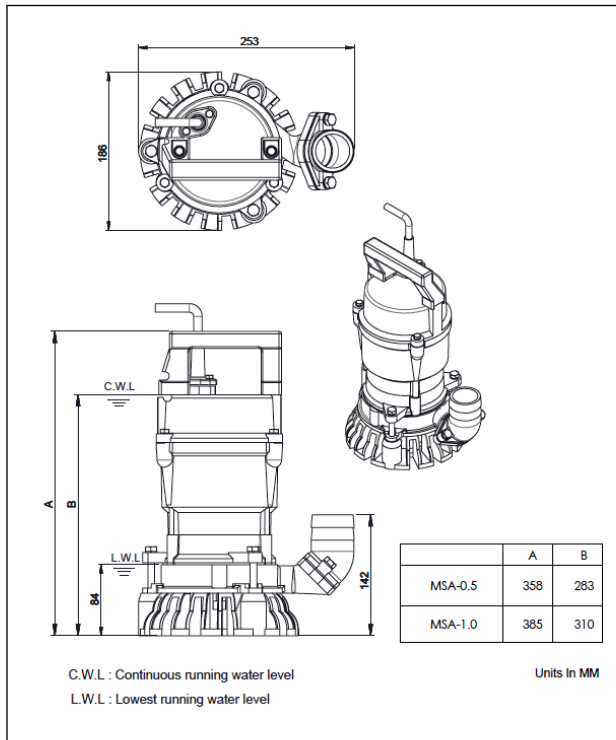
- Cast Iron Pump Casing.
- Aluminum Motor Casing.
- Stainless Steel Agitator, Shaft, and Hardware for maximum Corrosion Resistance.
- Synthetic Polymer Impeller for Abrasion Resistance.
- Double Silicon Carbide/Silicon Carbide and Carbon/Ceramic Mechanical seals.
- External Oil Seal for added protection against abrasives.
- Cast Iron Seal Housing
- Automatic ON/OFF/ON In-Built Motor Thermal Overloads.
- Continuous Duty Air Filled CLASS F Motor Insulation
- Hi-Torque Single Phase Split Capacitor Motor design
- 50 feet of power cable with plug and Strain Relief
- Built-in Automatic On/Off Float



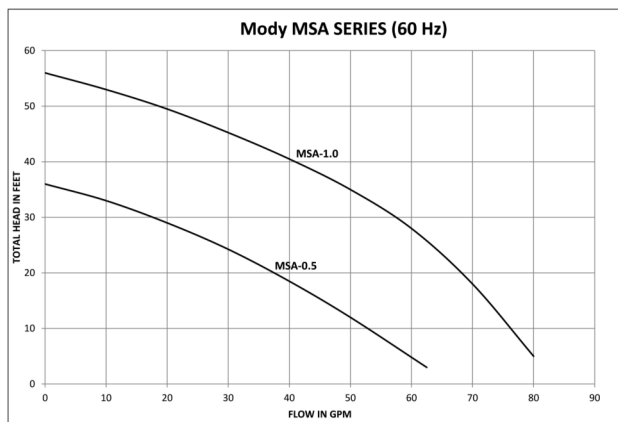
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# **ELECTRIC SUBMERSIBLE DRAINAGE PUMP**

## **MSA-0.5/1 SERIES** **0.5HP(0.4kW) / 1HP(0.75kW)**



## **PERFORMANCE CURVES**



## **MSA-0.5/1 SERIES** **MATERIALS OF CONSTRUCTION** **AND ENGINEERING DATA**

### **MOTOR**

2-pole induction **continuous duty rated** motor with squirrel cage rotor.  
 Stator insulation class 'F' (155°C), rated IP68. Air Filled.  
 Speed : 3450 RPM @ 60 Hz  
 Power Rating : 0.5HP/1HP @ 60 Hz Full Load  
 Current FLA: 5, 10 Amps @ 115v.  
 Max. temperature of the pump liquid: 104°F/40°C  
 Max. start/stop per hour : 15

### **POWER SUPPLY**

1 phase, 60 Hz, 115 AC Supply.

### **BALL BEARINGS**

The rotor shaft is carried in two single row, deep groove ball bearings.  
 The bearings are enclosed with high temperature grease sealed for life.

### **POWER CABLE**

Waterproof/oil proof, rubber-insulated, neoprene-sheathed copper conductor flexible cable, 50ft. (15m) length standard. Type SJTW in North America with Plug.

### **SHAFT SEAL**

Double Silicon Carbide/Silicon Carbide and Carbon/Ceramic Mechanical seals with External Oil Seal.

### **CORROSION RESISTANT**

Cast Iron Pump Casing  
 Aluminum Stator Casing  
 Cast Iron Seal Housing  
 Shaft: Heat Treated 410 Stainless Steel  
 Hardware: 304 Stainless Steel  
 Impeller: Synthetic Polymer  
 Agitator: Stainless Steel  
 pH Range 5 - 8

### **STRAINER**

Synthetic Polymer: 0.3"/7mm Solids Handling

### **SUBMERGENCE**

MSA-0.5/MSA-1 Submergence below liquid surface min 2" (52mm) max. 65' (20m).

### **WEIGHTS** (Approx. without cable)

MSA-0.5: 25 lbs. (11.3Kg)  
 MSA-1: 28 lbs. (12.8Kg)