



# ELECTRICAL SUBMERSIBLE NON CLOG SEWAGE PUMP

## MS-4000 SERIES

**30 HP (22.38 Kw)**

**MS4300S**

4" (100 mm) Flange or Hose  
(1,750 LPM)

**50 HP (37.3 Kw)**

**MS4500S**

4" (100 mm) Flange or Hose  
(2,250 LPM)

**55 HP (41.0 Kw)**

**MS4550S**

4" (100 mm) Flange or Hose  
(12,000 LPM)

**65 HP (48.5 Kw)**

**MS4650S**

4" (100 mm) Flange or Hose  
(2,750 LPM)

**75 HP (56.25 Kw)**

**MS4750S**

4" (100 mm) Flange or Hose  
(3,000 LPM)



## MS-4000 SERIES DESIGN ADVANTAGES

- High Efficiency Motors Class F (155°) Insulation
- “Fast-Change” TC/TC Mechanical Seals
- Modular Design, Interchange Components
- Adjustable Wear Ring System
- Semi open Impeller, On Same Shaft
- Oil Tap Drain
- Moisture protection
- Thermal overload protection
- Waterproof / oil proof Cable

### MODY PUMPS (INDIA) PVT. LTD.

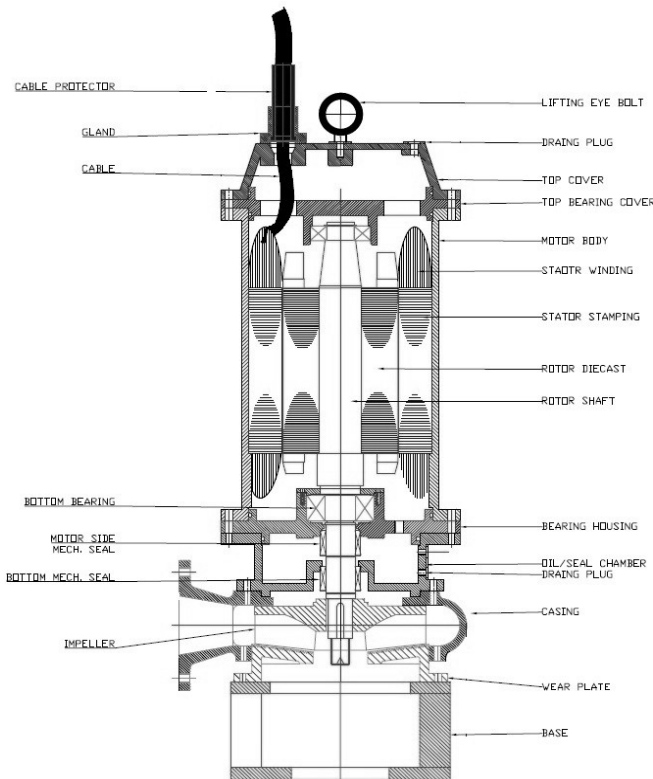
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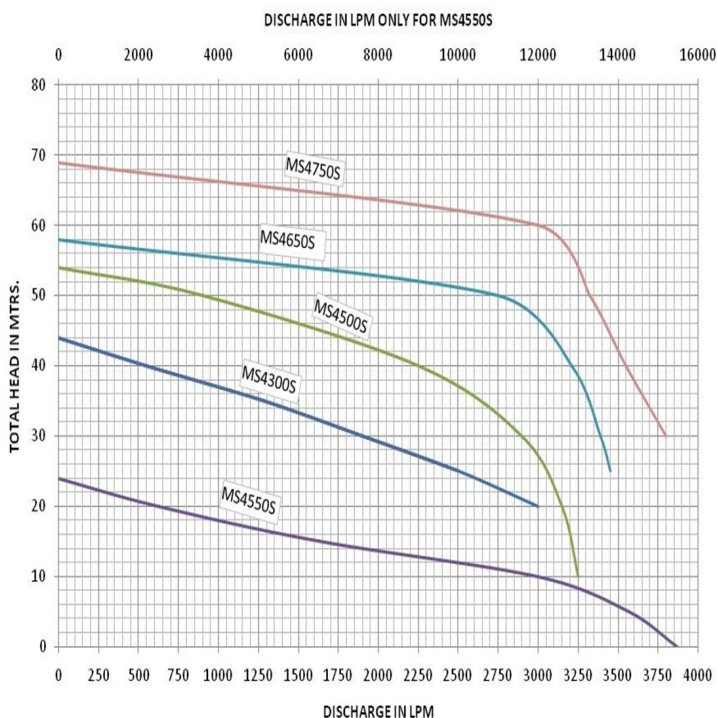
MS-4000-Rev.0

# ELECTRICAL SUBMERSIBLE NON CLOG SLUDGE PUMP

## MS-4000 SERIES



## PERFORMANCE CURVES



## MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

### MOTOR

4-pole induction **continuous rated** motor with squirrel cage rotor.  
Stator insulation class F  
Speed : 1440 RPM  
Power Rating : 4 Pole  
MS4300S : 30 HP/ 22.38 KW  
MS4500S : 50 HP/ 37.3 KW  
MS4550S : 55 HP/ 41.0 KW  
MS4650S : 65 HP/ 48.5 KW  
MS4750S : 75 HP/ 56.25 KW  
Max. temperature of the pump liquid : 40°C  
Max. start/stop per hour : 15

### POWER SUPPLY

3 phase, 415 Volts 50 Hz AC Supply. Also available in any voltage frequency combination.

### BALL BEARINGS

The rotor shaft is carried in two ball bearings. The lower bearing is a double row angular contact bearing capable of carrying high thrust and radial loads. The Upper bearing is a deep groove single row ball bearing. The bearings are filled with high temperature grease containing special Anti-corrosive additive.

### POWER CABLE

Waterproof/oil proof, PVC insulated, double sheathed copper conductor flexible cable fitted with strain relief grip,  
MS4300S : 2 X 4 core 06 sq. mm + 1 X 4 core 1.5 sq. mm.  
MS4500S, MS4550S, MS4650S : 2 X 4 core 10 sq. mm + 1 X 4 core 1.5 sq. mm.  
MS4750S : 2 X 4 core 16 sq. mm + 1 X 4 core 1.5 sq. mm.

### SHAFT SEAL

Compact Tandem Tungsten Carbide/Tungsten Carbide Upper & Lower Mechanical seals minimize shaft overhang and deflection, maximizing lead time between service intervals.

### MATERIALS OF CONSTRUCTION

Stator Casing : CI FG 260 With 4% NI.  
Shaft : Stainless Steel 410.  
Impeller : CI FG 260 With 4% NI.  
Pump Volute : CI FG 260 With 4% NI.  
Hardware : Stainless Steel 304.  
O-Rings : Nitrile Rubber.  
Mech. Seals: TC/TC (Upper & Lower).

### TYPES OF IMPELLER

Semi open or free flow close type

### SURFACE TREATMENT

Primer with Epoxy and subsequently coated with black choloric paint for max. corrosion resistance.

Due to continuous product development, specifications are subject to change with out notice.