

# SUBMERSIBLE ELECTRICAL DEWATERING PUMP

## SPG11MS

1.5 HP/ 1 PH (1.12 Kw)

2"(50mm) Hose  
(Flange / NPT / BSP - Optional)



### Applications of Sovereign Submersible Electrical Dewatering Pumps :

- Construction Activities
- Fire fighting Services
- Flooded Basement
- Pre Mining Activities
- Open Sumps
- Public utility works
- Hydro Power Station
- Ships and shipyards
- Tunnels & Trenches
- Water Supply System

### DESIGN ADVANTAGES

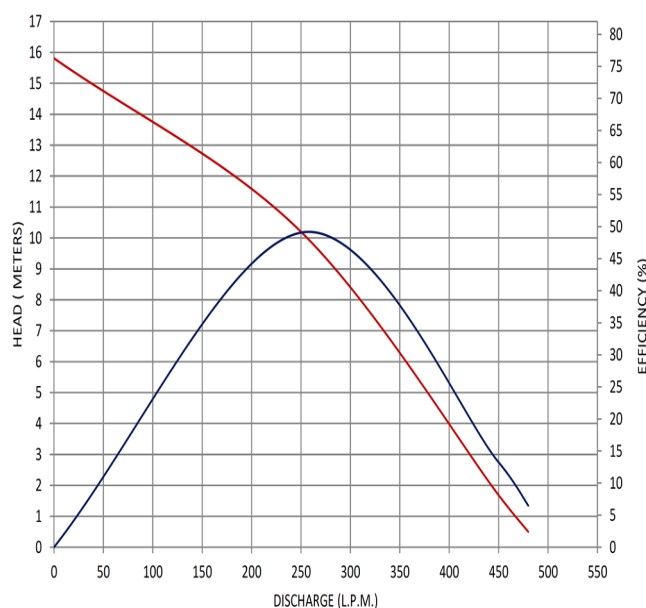
- Options for Impeller MOC:
  - a) For abrasive and corrosion resistance application impeller are in ASTM A217 Gr. CA15 (SS 410)
  - b) For Sea water and Corrosive application impeller available on request in ASTM A351 Gr. CF8M (SS 316)
- SS 304 Strainer, Outlet, Hardware and SS 431 Rotor Shaft.
- Tandem TC/TC mechanical seals enclosed in pressure compensated oil chamber.
- Thermal Cutouts are imbedded in motor winding for maximum protection.
- Nitrile rubber lined diffuser and wear plate for field adjustment.
- For saline environment Zinc Anode are available.
- Pumps are also available in complete SS 316 construction.
- Pumps are available for any combination of voltage and frequency on request.
- The Pump is epoxy coated for long life.

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### PERFORMANCE CURVES



#### TECHNICAL DETAILS

##### MECHANICAL SEAL

Tandem TC/TC mechanical seals enclosed in pressure compensated oil chamber.

##### BALL BEARINGS

Upper and lower bearing are single row, deep groove ball bearings.

##### POWER CABLE

Cable Size : 4 core 1.5 sq.mm

Cable Length : 15 meters

PVC insulated, water and oil proof copper conductor flexible cable.

##### STRAINER

Hole Size : 6x6 mm

Material of construction : S.S. 304

##### STANDARD MOC

Impeller : S.S. CA15, Nitride Hardened to 50-55 HRC

Rotor Shaft : S.S. 431

Diffuser / Wear Plate : Nitrile Rubber Lined

Stator Casing : Extruded Aluminum with Epoxy Powder coating

Outer Casing : Extruded Aluminum with Epoxy Powder coating

Hardware : S.S 304

##### ELECTRICAL MOTOR (DOL - START)

2 Pole continuous rated induction motor with squirrel cage rotor.

Frequency (Hz) : 50

AC Supply (Phase) : 1

Voltage (V) : 230

Power Rating (Kw) : 1.12

Current Rating (FL) (Amp) : 10

Speed (RPM) : 2850

Motor Winding Insulation Class : H

Max. temp. of pumped Fluid (°C) : 40

Max. Start / Stop per hour : 15

##### PUMP WEIGHT

Approx. without cable (Kg) : 18

##### PUMP SUBMERGENCE

Pump submergence below Fluid level minimum 25 mm & maximum 10 meters.

##### SOLID HANDLING CAPACITY : 6 mm

##### CONTROL PANEL: Required for single phase pump.

(Optional items are at extra cost.)