

### SOVEREIGN PUMPING SOLUTIONS PVT. LTD.

B-132,ADDITIONAL MIDC, ANAND NAGAR, AMBERNATH (E), MH 421506, INDIA. Tel.: +91 7676137171, Website: www.sovereignpumps.com, Email: sales@sovereignpumps.com

## SUBMERSIBLE ELECTRICAL DEWATERING PUMP



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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# SUBMERSIBLE ELECTRICAL DEWATERING PUMP

#### 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 + 2 core 1.0 sq.mm

Cable Length : 20 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

#### **ELECRICAL MOTOR (DOL - START)**

2 Pole continuous rated induction motor with squirrel cage rotor.

Frequency (Hz)	:	50
AC Supply (Phase)	:	3
Voltage (V)	:	415
Power Rating (Kw)	:	1.5
Current Rating (FL) (Amp)	:	3.9
Speed (RPM)	:	2850
Motor Winding Insulation Class	:	H
Max. temp. of pumped Fluid (°C)	:	40
Max. Start / Stop per hour	:	15

#### WEIGHT

Approx. without cable (Kg) : 18

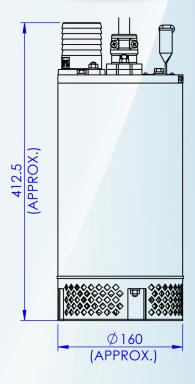
#### PUMP SUBMERGENCE

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

#### **SOLID HANDLING CAPACITY:** 6 mm

(Optional items are at extra cost.)

# **SPG21M** 2 HP(1.5 Kw)



### PERFORMANCE CURVES

