

# SUBMERSIBLE ELECTRICAL DEWATERING PUMP

## **SPG164H** **16 HP ( 11.9 Kw)**

4" (100 mm) 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

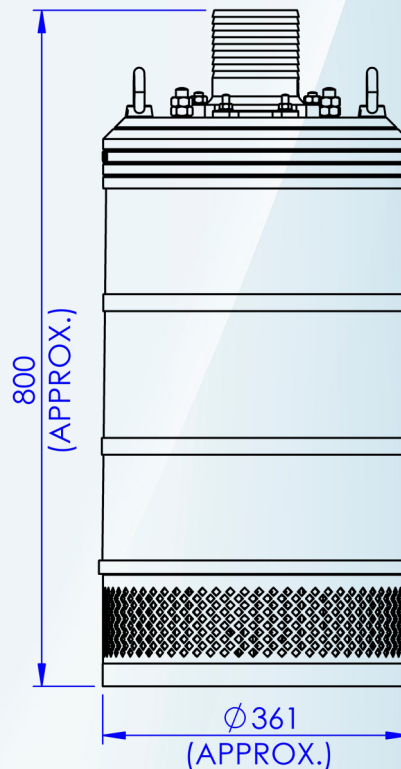


### **DESIGN ADVANTAGES**

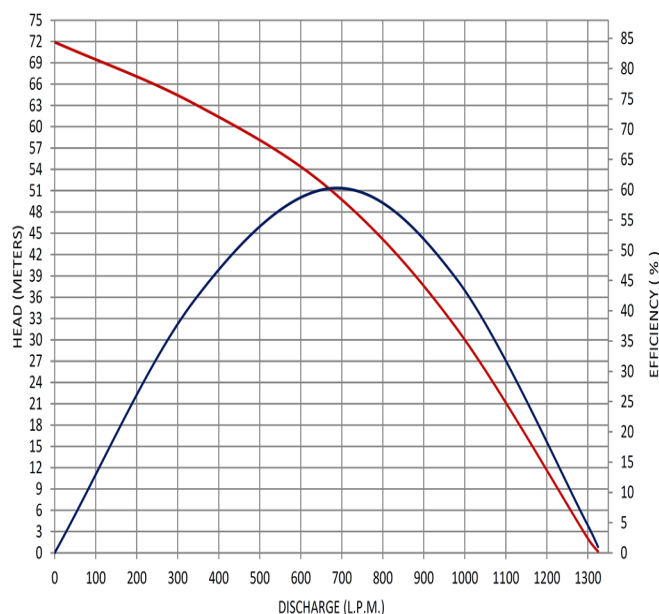
- Options for Impeller MOC:
  - a) For abrasive and corrosion resistance application impeller are in ASTM A217 Gr. CA15 (SS 410)
  - b) For Sea water and Corrosive application impeller available on request in ASTM A351 Gr. CF8M (SS 316)
- SS 304 Strainer, Outlet, Hardware and SS 431 Rotor Shaft.
- Tandem 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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## SPG164H 16 HP(11.9 Kw)



### PERFORMANCE CURVES



### TECHNICAL DETAILS

#### MECHANICAL SEAL

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

#### BEARINGS

Upper bearing : Single row deep groove ball bearing.  
Lower bearing : Double tandem single row angular contact bearing.

#### POWER CABLE

##### For DOL Start

Cable Size : 4 core 4 sq.mm + 2 core 1.0 sq.mm  
Cable Length : 20 meters

##### For STAR-DELTA Start

Additional 20 meters long (4core 4.0 sq.mm) cable will be provided .

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

#### STRAINER

Hole Size (mm) : 10x10  
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 : M.S. 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) : 3  
Voltage (V) : 415  
Power Rating (Kw) : 11.9  
Current Rating (FL) (Amp) : 24  
Speed (RPM) : 2850  
Motor Winding Insulation Class : H  
Max. temp. of pumped Fluid (°C) : 40  
Max. Start / Stop per hour : 15

\*Pumps are also available in STAR-DELTA Start (Optional)

#### PUMP WEIGHT

Approx. without cable (Kg) : 140

#### PUMP SUBMERGENCE

Pump submergence below Fluid level minimum 95 mm & maximum 15 meters.

**SOLID HANDLING CAPACITY : 10 mm**

(Optional items are at extra cost. )