

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

SPG355H 35 HP (26 Kw)

6"(150 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



- 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.
- NBR 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.

BEARINGS

Upper bearing : Lower bearing :

POWER CABLE

For DOL Start

Cable Size Cable Length 4 core 10.0 sq.mm + 2 core 1.0 sq.mm 20 meters

Single row deep groove ball bearing.

Double tandem, single row angular contact bearing.

For STAR-DELTA Start

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Additional 20 meters long (4core 10.0 sq.mm) cable will be provided .

PVC insulated, water and oil proof copper conductor flexible cable with cable support clamp assembly.

STRAINER

Hole Size (mm): 10x10Material of construction: S.S. 304

STANDARD MOC

: S.S. CA15, Nitride Hardened to 50-55 HRC
: S.S. 431
: NBR Lined
: Aluminum Casting with Epoxy Powder coating
: M.S. with Epoxy Powder coating
: 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)	:	26
Current Rating (FL) (Amp)	:	51
Speed (RPM)	: / /	2850
Motor Winding Insulation Class	:	Η
Max. temp. of pumped Fluid (°C)) :	40
Max. Start / Stop per hour	: / : /	15

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

PUMP WEIGHT

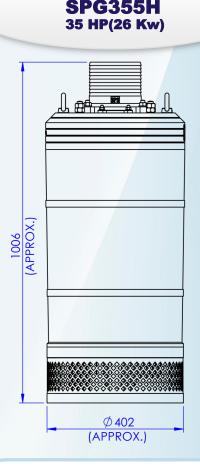
Approx. without cable (Kg) : 235

PUMP SUBMERGENCE

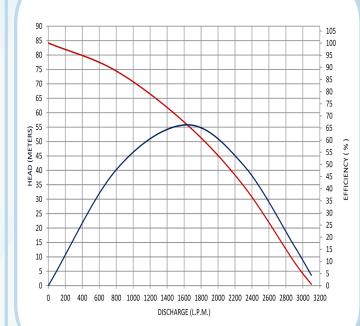
Pump submergence below Fluid level minimum 125 mm & maximum 15 meters.

SOLID HANDLING CAPACITY: 10 mm

(Optional items are at extra cost.)



PERFORMANCE CURVES





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Pioneering Innovative Advantages

Protection of Motor : Motor is a prime mover part of the pump so the protection is an utter most important. So, Thermal Cut-off Switch 50C Normally Closed are embedded in motor winding. Thermal switches a versatile and reliable thermal protector used to prevent overheating and ensure safety. This device is designed to interrupt the current flow when the temperature rises to a specified set point, effectively protecting the connected components or system from potential damage due to excessive heat. Motors are H class insulated (max temperature up to 180°C).

Anodes : For Sea water application pumps are fitted with sacrificial zinc anodes for better life of the Pump.

Motor Body : Due to robust usage of pump and with minimum submergence at operation site, it is recommended to use aluminum alloy for best heat dissipation which allows it to run for a longer time as compared to cast iron pumps.

Bearings : Pumps are provided with Tandem double ball bearings are fitted on the rotor at the impeller side (DE) for maximum trust loads to be taken by the pump and the upper ball bearing (NDE) is a single ZZ bearing. All the ball bearings are filled with high temperature lithium grease containing special anti-corrosive addictive which ensures long life during the life cycle of the pumps .

Motor/Rotor shaft sealing :

Tandem double mechanical seals (TC vs TC) are used for leak proof sealing to protects the motor from muddy water, abrasive application thus ensuring long life.

As pumps are slimline, light weight and portable in operations, so slimline design gives added advantage for use at site. **SPG355H** 35 HP(26 Kw)

> **Cable protections :** Cable and its leads are sealed in such a way that water enter is far from impossible because it has cable grommets to seal the diameter of the cable and lead grommets to seal the individual leads wire which are subsequently connected to motor leads by wire nut connector and cover with heat shrink.

> > Cable Arrester : Which is fitted to the cable and protect the pump cable connections for any pulling of the cable. Arrester holds cable from coming out from the gland.

Power cables : Power cables are 100% water and oil proof available in any form PVC/ EPR/HO7RNF depends upon the application where the pump is been used.

High corrosion resistance :

For corrosion resistance all wet end parts such as hardware, strainer, outlet, lifting hooks and mechanical seals, seal housing are in stainless steel to avert corrosion.

For abrasive application :

SS 410 Impellers are Nitride hardened (HRC 50 TO 55) also providing SS 316 & 27% high chrome impeller (optional) for better life in abrasive and muddy applications.

Maximum Efficiency : These are NBR rubber molded parts where it must be precisely measured gap between diffuser/ diffuser Centre and the impellers profile for excellent performance and efficiencies.



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PUMP CONTROL PANELS



- * DOL / STAR-DELTA CONNECTIONS
- * PUMP DRY RUN PROTECTION
- * PUMP SINGLE PHASING PROTECTION
- * PUMP OVERLOAD PROTECTION
- * PUMP UNDER LOAD PROTECTION

- * THERMAL CUT-OFF PROTECTION
 - *** OPERATING VOLTAGE & CURRENT DISPLAY**
 - * IP54 INGRESS PROTECTION FOR INDOOR PANELS
 - * IP65 INGRESS PROTECTION FOR OUTDOOR PANELS
 - * AVALILABLE IN ANALOG & DIGITAL CONTROL SYSTEM