

SEGURA

SUBMERSIBLE BOREHOLE PUMP



Overview

The SEGURA submersible borehole pump is engineered for reliable, high-efficiency water extraction from deep wells and boreholes. Designed with precision-machined stainless steel impellers and a robust submersible structure, it delivers consistent performance under demanding underground conditions. With corrosion-resistant materials and a hermetically sealed motor, the SEGURA adapts to diverse geological environments. Key features include sand-resistant design, high-efficiency hydraulics, compact radial dimensions for narrow boreholes, and compatibility with variable frequency drives. Built to international standards, the SEGURA series is the answer to all your deep well pumping needs — delivering long service life, energy efficiency, and dependable operation for water supply, irrigation, industrial processes, and municipal water systems.

Pump Structure Design

Reinha Segura submersible borehole pump with stainless steel impellers and diffusers. The pump features a compact cylindrical structure optimized for installation in 4", 6", 8", and 10" boreholes. Equipped with wear-resistant bushings, stainless steel outer casing for maximum corrosion resistance in aggressive groundwater conditions.

Motor

SEGURA Series submersible motor, Oil-filled or Resin filled Encapsulated motor

Enclosure class: IP68 Insulation class: F

Voltage: 380-415V 50Hz / 440-460V 60Hz

Thrust bearing: Heavy-duty water-lubricated

Pump Operating Condition

The Reinha Submersible Borehole Pump is designed for reliable and efficient groundwater extraction from deep wells and boreholes. Engineered for continuous operation in demanding environments, it delivers consistent performance while ensuring long service life and low maintenance requirements.

- Suitable for pumping clean water with low solid content.
- Maximum sand content: up to 50 g/m³.
- Water temperature: up to 35°C.
- Minimum borehole diameter according to pump size.
- Total Head Maximum: 285 meters.
- Continuous duty operation (S1).
- Power supply: 3-phase, 50 Hz (other frequencies available upon request).
- Voltage tolerance: ±10% of rated voltage.
- Maximum starts per hour: 20.
- pH range of pumped liquid: 6.0 – 8.5.

Designation

SEGURA- SP/4/6/8/10

Series Name _____

4 Inch Submersible Borehole _____

6 Inch Submersible Borehole _____

8 Inch Submersible Borehole _____

10 Inch Submersible Borehole _____

Applications

Water Supply

- Deep well extraction
- Municipal water supply
- Village water systems
- Irrigation

Industrial

- Process water supply
- Mine dewatering
- Cooling water systems
- Pressure boosting
- Geothermal systems

Building Service Commercial

- Hotel & resort water supply
- High-rise building water supply
- Fountain & landscaping

Installation Requirements

To ensure safe operation, maximum efficiency, and long service life, the Reinha Submersible Borehole Pump must be installed in accordance with the following guidelines:

- Verify borehole depth, casing diameter, static water level, and dynamic water level before installation.
- Install the pump at least 3–5 meters below the lowest expected pumping water level and above the borehole bottom to prevent sand and sediment intake.
- Use properly sized riser pipes, power cables, and safety cables suitable for the pump weight and installation depth.
- Secure the power cable to the riser pipe with cable clips or ties at regular intervals (typically every 3 meters) to prevent cable damage.
- Install a non-return (check) valve where required to prevent backflow and water hammer.
- Ensure all electrical connections are waterproof and comply with local electrical regulations.
- Use motor protection devices such as overload protection, dry-run protection, and phase-failure protection where applicable.
- Lower the pump carefully into the borehole without striking the casing wall or damaging the cable.
- Conduct commissioning tests to verify flow rate, discharge pressure, voltage, current consumption, and system integrity before continuous operation.

PERFORMANCE RANGE - SEGURA SP SERIES

