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## SEWAGE SUBMERSIBLE PUMPS

Non Clog sewage submersible pumps are closed coupled compact design having a pump below the motor by which maximum liquid pumping is possible. Squirrel cage induction dry/wet motors suitable for operation at 230 volts 1 Phase & 415 v 3 Phase, 50 Hz, AC Supply a precision manufactured motor is achieved utilizing a laminated sheet steel production process combined with the highest standard of quality control. The drive shaft and rotor assembly is heat treated and the stator and wiring impregnated with varnished. This ensures a 100% quality manufactured motor with stable characteristics and a high efficiency.

The bearing arrangements with double angular contact ball bearing with deep groove ball bearing give the best resistance to the radial and thrust load combination in a centrifugal pump. The bearings are enclosed with high temperature grease containing special Anti-corrosion additive. Non-clogging impeller design with the high efficiency, excellent performance and big passing of solid provide the best solution for drainage of effluent water. Below the motor impeller runs in a volute casing and the impellers are of sturdy construction and can be supplied in wear resistance material if the sewage contains hard solids.

All SB sewage pumps have a standards equipment double mechanical seal or Silicon carbide which prevents motor from liquid being pumped. The seal has face made form T/C vs. TC which is fitted in separate oil chamber for long life.

### **RANGE :-**

HP :- UP To 200 HP

RPM:- 3000 / 1500 / 1000 RPM

SIZE:- UP To 12"

Head :- Up to 90 Mtr.

Capacity :- Up to 3000 lpm (In High speed pump),  
Up To 15,000 lpm (In Low Speed pump)

Stage :- One

Solid Size :- Up to 100 mm

Concentration :- Up to 30%



## **MATERIAL OF CONSTRUCTION:-**

- Motor Body:- CI/SS,
  - Casing:- CI/MS,
  - Shaft :- SS,
  - Oil Chamber :- CI
  - Strainer :- SS with 6 or 10 mm round holes ,
  - Mechanical seal :- TC/TC or Silicon Carbide , Bi Directional Twin Mechanical seal with various face combination Looking to the Application.
  - Cable :- PVC Insulated Double Sheathed Copper Conductor flexible Cable.
- Cooling Jacket :- MS/ SS,  
Impeller :- Cast Iron / SS,  
Hardware :- SS ,  
Quick Out Coupling :- CI / SS

**Various Type of material of construction is available as per application and need. Above details are for standard models.**

## **TECHNICAL SPECIFICATION:-**

- Motor :- 2/4/6 Pole Squirrel cage sub type Induction Motor.
- Speed:- 3000/1500/1000 RPM,
- Connection :- DOL, Star Delta ,ATS
- Temperature :- 45°C (Also Available for higher temperature on request)
- Voltage:- 415v , 3phase , 50 Hz / 215v , 1phase , 50 Hz (up to 3.0 hp)  
60 Hz & other Voltages available on request.
- Insulation :- “F” Class
- Protection :- IP-68.

<b>HIGH SPEED LIGHT DUTY SEWAGE &amp; EFFLUENT SUBMERSIBLE PUMP “SSH” SERIES</b>	<b>LOW SPEED HEAVY DUTY SEWAGE &amp; EFFLUENT SUBMERSIBLE PUMP “SSL” SERIES</b>
<p><u><b>APPLICATION:-</b></u></p> <ul style="list-style-type: none"><li>• Effluent with slurry and solids.</li><li>• Dewatering man-hole sewers.</li><li>• De - silting.</li><li>• Storm/Flood water transfer.</li><li>• Drainage of sewage from the building basements, hotel industry, wastes water from factories.</li><li>• Drainage of sewage from industrial process factories.</li><li>• emptying of septic tanks, cesspits and sewage pump stations.</li><li>• Pumping surface and drainage water from garages and sprinkler systems.</li><li>• Quick Out Installation,</li><li>• Cooling Jacket Arrangement,</li><li>• Single phase pumps are provide with auto water level control &amp; Thermal Protection.</li></ul>	<p><u><b>APPLICATION:-</b></u></p> <ul style="list-style-type: none"><li>• Effluent with slurry and solids.</li><li>• Handling of Treated Effluent with</li><li>• Removal Of Unscreened Sewage</li><li>• Storm water &amp; Pumping of waste water.</li><li>• Transfer of Suspended Solids.</li><li>• Pumping of sludge.</li><li>• Pumping of Waste Water &amp; Storm Water.</li><li>• Quick Out Installation,</li><li>• Cooling Jacket , Cutter,</li><li>• Agitator Arrangement</li><li>• Seal Monitor Relay &amp; Thermal overload Protection are provided in all models.</li></ul>

## TYPES OF IMPELLER BEING:

Semi-open impeller embedded with a tungsten blade to enable cutting of fibrous materials to prevent clogging.



Vortex impellers create a hydraulic passage, allowing long fibrous materials to pass through without any contact with the impeller, preventing potential clogging by solids laden media.

Single channel non-clog impeller allows large solids passage preventing clogging and allow effective drainage/dewatering for higher head applications with solids laden media.

