

## SUBMERSIBLE V3

**SUBMERSIBLE PUMPSET**  
**50 Hz, 220V**



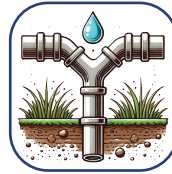
Farming



Domestic



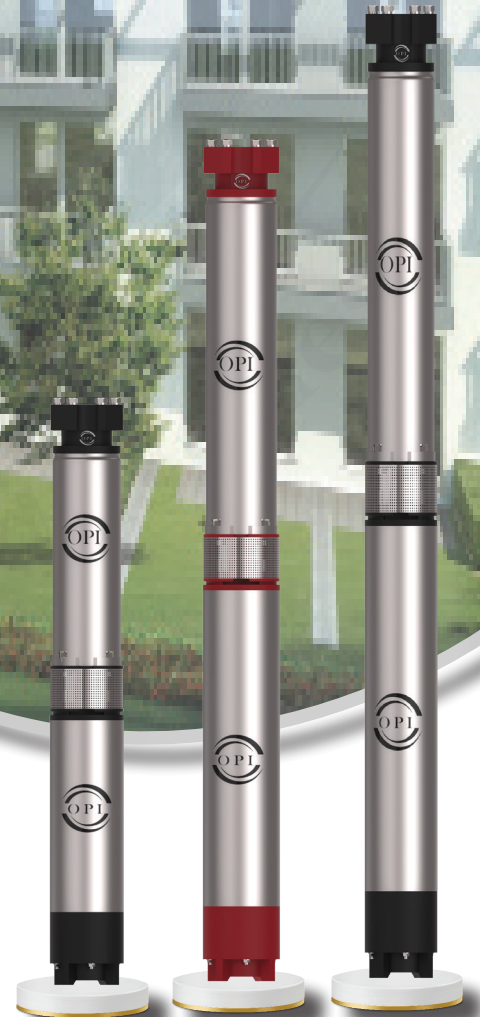
Gardening



Water Supply



Industrial



BOREWELL  
SUBMERSIBLE  
PUMP SETS V3  
74 mm (3")

3"



OPI SUBMERSIBLE PUMP V3



# 3" BOREWELL SUBMERSIBLE PUMPSET -OPI V3



## 1. DESCRIPTION :

Introducing our 3" Submersible Smart Series : Compact with a 74mm outer diameter, yet powerful, ranging from 0.37 kW to 1.1 kW. Achieve flow rates up to 120 lpm and head heights of 98m.

## 2. SALIENT FEATURES:

- **Engineered Designs :**  
Slim and attractive compact design, with easy installation and maintenance free.
- **High Discharge :**  
High operating efficiencies of pumpset result into high water discharge rate and lower power bills.,Guarantees maximum water output for each cycle.
- **No Problems with Suction or Priming :**  
Easy to use without requiring constant attention.
- **Impeller & diffuser Bowl :**  
High Quality Noryl impeller, a thermoplastic material designed for maximum water flow and efficiency.
- **Water Lubricated Bearings :**  
Heavy duty water lubricated journal and Carbon thrust pad with fixed segment bearings for long trouble free operations.
- **Stainless Steel Components :**  
All fasteners designed for durability and corrosion resistance..
- **Rigid Construction:**  
Built to withstand challenging operational conditions.
- **Low Noise Operation :**  
Provides a quiet and disturbance-free environment.
- **Consistent Water Flow :**  
Steady and uniform water supply guaranteed.
- **Rotating Parts :**  
All rotating components are dynamically balanced to ensure long bearing life and vibration free smooth operation.
- **Wide voltage operation :**  
Accommodating fluctuating power supply and safeguarding against electrical inconsistencies.
- **Motor Design :**  
The motor is completely designed to avoid sand entry into motor and pump.
- **Attachment :**  
Motor and pump is a Couple type, and it is easy for installation.
- **Testing process :** All pumpsets are fully tested and prior to despatch.



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## 3. OPERATIONAL CONDITION :

Pump set should be submerged in water with minimum of 0.5m above water level,

- |                                      |                                     |   |
|--------------------------------------|-------------------------------------|---|
| • <b>Turbidity</b> : 50 ppm Max      | • <b>PH</b> : 6.5 To 8.5            | • <b>Specific Gravity</b> : 1.004 Max                       |
| • <b>Chlorides</b> : 500 ppm Max     | • <b>Temperature</b> : 33 Deg C Max | • <b>Hardness</b> : 300 ppmMax                              |
| • <b>Total Solids</b> : 3000 ppm Max | • <b>Voltage`</b> : 160 - 420 Volts | • <b>Permissible Amount of sand`</b> : 25 g/ m <sup>3</sup> |



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## 4. TECHNICAL SPECIFICATION :

### SPECIFICATION :

- **Nominal Diameter** : 3"
- **Power Range** : 0.37 kW to 1.1 kW (0.5 HP - 1.5 HP)
- **Supply Type** : Single Phase ( 50Hz, AC Supply)
- **Voltage Range** : 160 V - 240 V (Single Phase)
- **Speed** : 2880 RPM
- **Head** : Upto 98 Mtr
- **Flow** : Upto 120 Lpm
- **Liquid / Max Temp** : Clear Water / 33° C ,
- **Type of Duty** : S1 (Continuous)
- **Insulation** : Wet Type, Cat - B, 99.9% Pure Copper
- **Delivery Size** : 1, 1 ¼ , 1 ½.
- **Max.Outer Diameter** : 74 mm
- **Method of Starting** : 1 PH - Capacitor Start Capacitr Run (CSCR)

## 5. MATERIAL OF CONSTRUCTION:

- **Impeller & diffuser Bowl** :  
High Quality Noryl impller, a thermoplastic material designed for maximum water flow and efficiency.
- **Motor Shaft** :  
High Grade stainless steel for durability and anti-rust properties. A sufficient diameter of stainless steel that is ground to precise tolerances and guarantees rigidity.
- **Cable Sealing Arrangement** :  
Designed so that no borewell water with sand can enter the motor.
- **Thrust Bearings** :  
Carbon Thrust bearing with 4 segment brearing segment and water lubricated to withstand high axial thrust loads.
- **Winding** :  
PVC / Polywrap insulated, water cooled.
- **Seal** :  
Precision-engineered Mechanical Seal, ensuring leak-proof operation.
- **Casting** :  
High Grade cast iron – FG 260.
- **Pressure Equalizing Diaphragm** :  
suitably sized to allow for water expansion inside the motor and stop cooling water loss
- **Motor Body and Pump Body** :  
SS 202 high graded stainless steel with corrosion resistance
- **Stainless steel components** :  
All Fastners, coupling, key stud ring all are high graded stainless steel.



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## 5.1 MATERIAL OF CONSTRUCTION:

MATERIAL OF CONSTRUCTION			
PUMP MATERIALS		MOTOR MATERIALS	
PART	MATERIAL	PART	MATERIAL
IMPELLER	NORYL	STATOR	LC / CRNO STAMPING
BOWL	NORYL WITH SS RING SS 202	WINDING	POLYWRAP, HIGH GRADED COPPER
DIFFUSERS	SS JACKET	BEARING BUSH	CARBON / LTB 4
SLEEVE BUSH	NITRILE RUBBER	ROTOR	COPPER / ALUMINIUM
SHAFT	SS 410	FASTNERS	SS 304 / SS 202
SLEEVE COUPLING	SS 410	STATOR TUBE	SS 202 / SS 301
PUMP DESIGN	COUPLING TYPE	THRUST PAD ASSMLY	4 SEG / 6 SEG PREMIUM

## 6. APPLICATIONS :



Residential



Industries



Water Supply



Irrigation



Garden



Sprinkler

## 7. BENEFITS:

- Residential water needs, daily household requirement.
- Water circulating systems, fountains, lawns and gardens.
- Lifting water from sump to overhead tanks for domestic, individual houses and appartments.
- Irrigation from open wells especially where there is wide fluctuation in water levels.

## 8. ACCESSORIES AND PACKING ITEM'S :



Cable joining kit



Acrylic Key



Warrenty Card



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