

॥ राष्ट्रदेवो भवः ॥



Since 1994

PREMIUM SERIES

V3 BOREWELL

SUBMERSIBLE PUMPSET



Farming



Gardening



Domestic



Water Supply



Industrial



Mfg. by : **Falcon Pumps Pvt. Ltd.**

Chale Pragati Ki Aur®

✉ [sales@falconpumps.in](mailto:sales@falconpumps.in) | ✉ [info@falconpumps.in](mailto:info@falconpumps.in) | ☎ 1800 123 0000

## ■ V3 BOREWELL SUBMERSIBLE PUMPSET

Falcon standard 73mm (3") Borewell Submersible pump is firmly coupled to a submersible electric motor which Operates by being submerged beneath the surface of the water. The optimal design of impeller and diffuser enables the best Possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering. All Vital components of these pumps are made up of corrosion resistance thermoplastic and the shaft is of SS 410.

## ■ PUMP LIQUIDS

- Clean
- Thin
- Non-Aggressive
- Non-Explosive
- Clear
- Cold
- Fresh water
- Without abrasives
- Solid particles.



## ■ SALIENT FEATURES

- Motor portion covered with corrosive resistance Stainless steel (SS 204cu) shell
- More durability and hygiene
- High operating efficiency
- Specially designed thrust bearing to withstand high axial thrust load
- Extremely hardwearing water lubricated bearing
- Thread type motor construction ensures service feasibility
- Specially designed Deep Drawn type pump ensures perfect alignment and Thereby increases the life of the pump set
- Designed for wide voltage operation
- Best alternative for JET & Compressor pump set
- Additional intermediate bearing in higher stage pumps.



**Thrust Bearing Set**



**Sand Guard**



## ■ SPECIFICATION

- Power Range	: 0.37 kW to 1.1 kW (0.50 HP to 1.5HP)
- Version	: Single Phase 160V to 230V, 50Hz, AC Supply
- Speed	: 2880 RPM
- Head Range	: 14 Mtr. to 96 Mtr.
- Discharge Range	: 70 LPM to 15 LPM
- Outlet Size in Inch	: 1.25"
- Degree of Protection	: IP 58
- Direction of Rotation	: Counter clockwise from driving end - 1 pH Minimum cooling 1pH
- Flow Along the Motor	: 0.15 m/sec.
- Type of Duty	: S1 (Continuous)
- Method of Starting	: 1ph-Capacitor
- Maximum Starts Per Hour	: 20 Times



## ■ CHARACTERISTICS OF CLEAR COLD WATER

- Maximum liquid temperature : 33°C max
- Permissible amount of sand : 25 g/m<sup>3</sup>
- Allowable solids : 3000 ppm (max.)
- Chloride ion density : 500 ppm (max.)
- Turbidity : 50 ppm silica scale (max.)
- Hardness (Drinking Water) : 300 ppm (max.)
- Specific gravity : 1.004 (max.)
- Viscosity :  $6.175 \times 10^{-6}$  m<sup>2</sup>/sec (max.)
- Ph Value : 6.5 to 8.5



## ■ MATERIAL OF CONSTRUCTION - MOTOR

<u>Part Name</u>	<u>Material</u>
Oil Seal	: Nitrile butyl rubber
Motor Shaft	: SS - 420
Motor Body Pipe	: SS -240Cu
Motor Bush	: LTB-4 / Teflon
Thrust bearing assembly	: SS - 420 & Teflon
Diaphragm	: High Nitrile Butyl Rubber
Motor Base	: SS-410
Housing Set	: Cast Iron



## ■ MATERIAL OF CONSTRUCTION - PUMP

<u>Part Name</u>		<u>Material</u>
Check Valve Housing	:	Cast iron
Check Valve	:	SS-410 / Nylon
Outer Shell	:	SS-204 Cu
Impeller	:	Noryl
Bowl	:	Noryl
Counter Bush	:	LTB-4
Pump Bush	:	NBR / LTB 4
Pump Sleeve	:	SS-410
Suction	:	Cast iron
Pump Shaft	:	SS-410
Coupling / Pump Couple	:	SS-410

