



॥ राष्ट्रदेवो भवः ॥



Since 1994

175 MM

V7 BOREWELL

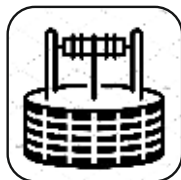
SUBMERSIBLE PUMPSET



Farming



Gardening



Deep Well



Water Supply



Industrial



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

Chale Pragati Ki Aur®

✉ sales@falconpumps.in | ✉ info@falconpumps.in | ☎ 1800 123 0000

■ V7 BOREWELL SUBMERSIBLE PUMPSET

Falcon Premium 175 mm (7") Borewell Submersible pumpsets are powered by water filled, rewindable submersible motor suitable for continuous duty. The stator is wound with special water proof synthetic film insulated copper winding wires and made up of low watt loss silicon steel laminations assembled under pressure and rigidly locked in stainless steel stator shell.

■ PUMP LIQUIDS

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



■ SALIENT FEATURES

- Cast iron casting bowl and SS-410 grade impeller in mix flow series
- Specially designed high performance thrust bearing (SS-420 Tilting Pad with Carbon plate) to withstand axial thrust loads.
- Specially designed Deep Drawn type pump ensures perfect alignment and thereby increases the life of the pump set
- Dynamically balanced rotating parts ensure minimum vibration and longer life
- Motor portion covered with corrosion resistance Stainless steel J4 shell
- More durability and hygiene
- High operating efficiency
- Special designed thrust bearing to withstand high axial thrust load
- Extremely hardwearing water lubricated bearing
- Thread type motor construction ensures service feasibility
- Designed for wide voltage operation
- Best alternative for JET & Compressor pump set
- Additional intermediate bearing in higher stage pumps



Thrust Bearing Set



Rotor



■ SPECIFICATION

- Method of Starting	: 3 ph -Direct Online (D.O.L) upto 5.5 kW, Star Delta (SD) upto 37.3 kW
- Power Range	: 11.2 kW to 37.3 kW (15 HP to 50 HP)
- Version	: Three Phase 350 to 415V, 50Hz AC Supply
- Speed	: 2880 RPM
- Head Range	: 18 Mtr. To 650 Mtr.
- Discharge Range	: 1860 LPM to 55 LPM
- Outlet Size in Inch	: 2.0" , 2.5" , 3.0" & 4.0"
- Degree of Protection	: IP 58
- Direction of Rotation	: Electrically Reversible -3ph
- Thrust Load	: 11.2 kW -37.3 kW -8000 lbs
- Minimum Cooling Flow Along the Motor	: 0.15 m/sec.
- Type of Duty	: S1 (Continuous)
- Maximum Starts Per Hour	: 20 Times



■ CHARACTERISTICS OF CLEAR COLD WATER

- Maximum liquid temperature : 33°C max
- Permissible amount of sand : 25 g/m³
- 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 : 6.175×10^{-6} m²/sec (max.)
- Ph Value : 6.5 to 8.5



SS Pump Parts



Mix Bowl



■ MATERIAL OF CONSTRUCTION - MOTOR

<u>Part Name</u>	<u>Material</u>
Oil Seal	: Nitrile butyl rubber
Motor Shaft	: SS - 420
Motor Body Pipe	: J4
Motor Bush	: LTB-4 / Teflon
Thrust bearing assembly	: SS - 420 & Carbon
Diaphragm	: High Nitrile Butyl Rubber
Motor Base	: Cast Iron / SS - 304
Housing Set	: Cast Iron / SS - 304



■ MATERIAL OF CONSTRUCTION - PUMP

<u>Part Name</u>	<u>Material</u>
Check Valve Housing	: Cast iron / SS – 304
Check Valve	: SS-410 / Nylon
Impeller	: SS-410
Bowl	: Cast Iron
Counter Bush	: LTB-4 / SS - 304
Pump Bush	: NBR / LTB 4
Pump Sleeve	: SS-410
Suction	: Cast iron / SS - 304
Pump Shaft	: SS-410
Coupling / Pump Couple	: SS-410



Sand Guard

