





Mfg. by: Falcon Pumps Pvt. Ltd.



Industrial

Water Supply



V4 BOREWELL SUBMERSIBLE PUMPSET

Falcon Premium 100 mm (4") Borewell Submersible pump is firmly coupled to a submersible electric motor and 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 corrosive resistance thermoplastic and the shaft is of SS 410.

PUMP LIQUIDS

- Clean - Cold

- Thin - Fresh water

- Non-Aggressive - Without abrasives - Non-Explosive - Solid particles.

- Clear













SALIENT FEATURES

- Motor portion covered with corrosive resistance Stainless steel J4 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.











SPECIFICATION

- Power Range : 0.37 kW to 4.4 kW (0.50 HP to 6.0 HP)

- Version : Single Phase 160V to 230V, Three Phase 350 to 415V, 50Hz AC Supply.

Single Phase available in 0.5 HP to 5.0 HP

Three Phase available in 1.0 HP to 6.0 HP

- Speed : 2880 RPM

- Head Range : 10 Mtr. To 340 Mtr.

- Discharge Range : 450 LPM to 12 LPM

- Outlet Size in Inch : 1.0", 1.25", 1.5" & 2.0"

- Degree of Protection : IP 58

- Direction of Rotation Minimum Cooling : Counter clockwise from driving end -1ph: Electrically Reversible -3ph

- Thrust Load : 0.37 kW - 0.75 kW-650 lbs, 1.1 kW -1.5 kW -1000 lbs,

2.2kW - 7.5 kW - 1500 lbs.

- Flow Along the Motor : 0.15 m/sec.

- Type of Duty : S1 (Continuous)

- Method of Starting : 1ph-Capacitor Start Capacitor Run (CSCR): 3ph – Direct Online (D.O.L)

- Maximum Starts Per Hour : 20 Times







Noryl Bowl



Sand Guard



CHARACTERISTICS OF CLEAR COLD WATER

- Maximum liquid temperature : 33°C max

- Permissible amount of sand : 25 g/m³

: 3000 ppm (max.) - Allowable solids

- 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 1.75 x 10 m²/sec (max.)

- Ph Value : 6.5 to 8.5











MATERIAL OF CONSTRUCTION - MOTOR

Part Name Material

: Nitrile butyl rubber Oil Seal

Motor Shaft : SS - 420

Motor Body Pipe : J4

: LTB-4 / Teflon **Motor Bush**

Thrust bearing assembly : SS - 420 & Carbon

Diaphragm : High Nitrile Butyl Rubber

: Cast Iron / SS - 304 **Motor Base**

Housing Set : Cast Iron / SS - 304













MATERIAL OF CONSTRUCTION - PUMP

Material **Part Name**

Check Valve Housing Cast iron / SS - 304

Check Valve SS-410

Outer Shell J4

Impeller Noryl / Nylon

Noryl / Cast Iron / SS Bowl

LTB-4 / SS - 304 **Counter Bush**

Pump Bush NBR / LTB 4

Pump Sleeve SS-410

Suction Cast iron / SS - 304

Pump Shaft SS-410

Coupling / Pump Couple SS-410





