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Since 1994

DOMESTIC VRS

SERIES



Farming



Domestic



Water Lifting From Pond



Water Supply



Industrial



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

Chale Pragati Ki Aur®

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

■ DOMESTIC VRC MULTISTAGE OPENWELL

Falcon Openwell Submersible Pumpsets Are Ideally Suitable For Openwells Or Tanks Where A Wide Fluctuation Of Water Level Occur. This Works Under Water And Rest At The Bottom Of The Well. Prime Mover Is Rewindable, Water – Cooled Motor. Specially Designed Water Lubricated Bearings Are Used To Withstand The Axial Thrust Loads With Minimum Wear And Tear. The Stator Is Wound With Special Waterproof Synthetic Film Insulated Copper Winding Wires And Made Up Of Low Watt Loss Silicon Steel Laminations Assembled Under Pressure And Rigidly Locked. Motor Sealing Is Made By Polymers, 'O' Rings, Oil Seals And Sand Guard To Avoid Ingress Of Well Water/Salt Into The Motor. Pressure Equalizing Rubber Diaphragm Is Provided To Guard The Motor From Pressure And Volume Variation Of Water As Detailed In Our Operator's Manual. Three Phase Motor Requires An Adequate Motor Protection Control Panel.

■ PUMP LIQUIDS

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



■ SALIENT FEATURES

- No Suction And Priming Problem
- Noiseless Operation
- High Operating Efficiency
- No Need Of Pump House
- Extremely Tough And Hard Wearing
- Lubricated Journal Bearings Are Used
- Can Be Easily Dismantled And Repaired
- Dynamically Balanced Rotating Parts Ensures Minimum Vibration And Longer Life
- Designed For Wide Voltage Fluctuations.
- Motor Designed With Higher Cooling Effect
- Ensures Longer Life.



THRUST BEARING



SS BOWLSET



■ SPECIFICATION

- Power Range	: 0.37 Kw – 2.2 Kw (0.5 Hp – 3 Hp)
- Version	: Three Phase 380 - 415V, 50HZ AC Supply Single Phase 230 V, 50HZ AC Supply
- Speed	: 2800 RPM
- Maximum Total Head	: 60 Mtr.
- Maximum Flow Rate	: 430 LPM
- Degree of Protection	: IP 58
- Direction of Rotation	: Electrically Reversible
- Normal Delivery Size	: 1", 1.25", 1.5", 2.0" & 2.5"
- Type of Duty	: S1 (Continuous)
- Method of Starting	: Direct on Line (D.O.L.)
- Maximum Starts Per Hour	: 10 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 : 1.75 x 10⁶ m²/sec (max.)
- Ph Value : 6.5 to 8.5



Rotor

■ MATERIAL OF CONSTRUCTION - MOTOR

<u>Part Name</u>	<u>Material</u>
Oil Seal	: Nitrile butyl rubber
Motor Shaft	: SS - 420
Motor Body	: J4
Motor Bush	: LTB-4 / Teflon
Thrust bearing assembly	: SS - 420 & Carbon
Base	: Cast Iron
Housing	: Cast Iron
Flange	: Cast Iron
Suction	: Cast Iron
Impeller	: S.S-304
Bowl	: S.S-304

