



॥ राष्ट्रदेवो भवः ॥



**Falcon**<sup>®</sup>  
A MACHINE FOR MANKIND

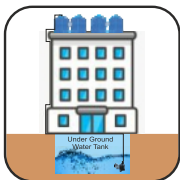
**Since 1994**



# Domestic DSH series



Farming



Water Transfer Ground to Top



Domestic



Water Supply



Industrial



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

Chale Pragati Ki Aur<sup>®</sup>

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## ■ DOMESTIC DSH SERIES 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 Body Available In J4 Grades / CI FG - 250 Grades
- Motor Designed With Higher Cooling Effect
- Ensures Longer Life.



**THRUST BEARING**



**CI IMPELLER**



## ■ Specification

- Power Range : 0.37kw - 2.2 Kw (0.5 HP - 3 HP)
- Version : Three Phase 380 - 415v, 50Hz AC Supply  
Single Phase 160-240v, 50Hz AC Supply
- Speed : 2800 RPM
- Maximum Total Head : 30 Mtr.
- Maximum Flow Rate : 750 LPM
- Degree of Protection : IP 58
- Direction of Rotation : Electrically Reversible
- Normal Delivery Size : 1", 1.25", 1.5", 2.0", 2.5", 3.0"
- Type of Duty : S1 (Continuous)
- Method of Starting : Direct on Line (D.O.L.) upto 2.2 Kw
- Maximum Starts Per Hour : 10 Times



ROTOR



## ■ 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                  | : 1.75 x 10 <sup>6</sup> 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              | : Cast Iron / J4                             |
| Motor Bush              | : LTB-4 / Teflon                             |
| Thrust bearing assembly | : SS - 420 & Carbon & Teflon                 |
| Base                    | : Cast Iron                                  |
| Bracket                 | : Cast Iron                                  |
| Flange                  | : Cast Iron                                  |
| Casing                  | : Cast Iron                                  |
| Impeller                | : Cast Iron                                  |
| Rotor                   | : EC grade copper Rotor /<br>Aluminium Rotor |

