

JASCO®

PUMPS

~ SINCE 1988 ~

Reliable And Excellence Through Quality



Borewell Submersible Pump

An Introduction :

Water to drink. Water to clean. Water to cool. Water to grow. On an average, every human being consumes a couple of hundred liters of water a day. For drinking and cooking, to flush the toilet, to do the dishes and laundry, for washing, showering and bathing. In a giant process industry, tens of thousand of litres of water are used every second. It also takes almost 2,000 liters of water to grow one kilogram of rice. Water is the essence of all life forms, and to keep this essence alive, pumps play a very critical role in the transportation of water.

For this, installation of submersible pumps found the best pumping system. It was invented in 1910 & used for neval applications since 1950. The submersible pumps after certain modification found most suitable system for pumping out due to their reliability, high efficiency & easy installation & low maintenance costs.

SPECIAL FEATURES & ADVANTAGES :

Space:

It requires very small space, does not require foundation or pump house.

Investment Cost:

Due to compact & sturdy design, the initial investment is low.

Installation & Maintenance Cost:

The installation cost is very low, can be installed in difficult site in narrow & slanting borewells. Due to proper selection of material & due to high accuracy maintained during production maintenance cost is very low. The operation of pump is noiseless.

Efficiency:

Due to efficient design pump gives higher out put at lower power consumption.

THE MOTOR :

1. Motors are squirrel cage type totally enclosed, wet type induction motor suitable for 1 Phase - 230V / 3 Phase - 415 volts, 50 c/s a.c. supply, filled with pure drinking water.
2. Dual seals and sand guard are provided for protection and to avoid contamination of outside borewell water.
3. Stator made of Stainless Steel pipe.
4. Stators & Rotors are impregnated with varnish under vaccum and baked-under controlled temperature to avoid rusting in water.
5. Stainless steel sleeves are shrink fitted at bearing locations on rotor shaft & ground to closer tolerance for smooth running.
6. Winding wire is made from water resistance P.V.C. coated / Poly coated copper wire.
7. Rotor assembly is dynamically balanced for vibration free operation.
8. Rotor bars are of electrolytic grade copper.
9. All the bush bearings are water lubricated.
10. Thrust bearing assembly is fitted with tilted pads resting on S.S. balls and supported by locating pin to take the higher axial load.
11. The revolving thrust plate is made from S.S. & fitted with teflon securely fixed to the S.S. plate.
12. Rubber diaphragm is provided at the base of the motor to equalise pressure caused by variation in temperature during operation.
13. Lead cables are protected with rubber gromets.
14. The motor is manufactured as per IS 9283/1995

THE PUMP :

1. It is vertical multistage centrifugal pump with either radial flow or mixed flow type Stainless Steel impeller.
2. Impellers are dynamically balanced. All the stationary parts are closed grained graded CI with smooth profiles without any detrimental defects.
4. All the Bearing Bush are self water lubricated type.
5. The Pumpshaft Sleeves & Coupling are manufactured from Stainless Steel.
6. Impeller & sleeves are securely fixed on S.S. Shaft with S.S. Key.
7. The bowls are locked by bolting to avail high Concentric accuracy & better reliability.
8. A stream lined non return valve provided to prevent reverse rotation of pump assembly while switched off.
9. S.S. Suction strainer is provided to avoid entry of suspended material in water.
10. To protect cable from being wearing out during installation, cable guards are provided all along the pump body.

The pump is manufactured as per IS : 8034/2002

APPLICATION :

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|-------------------------|---|---|
| Agriculture | <ul style="list-style-type: none"> • Tubewell Irrigation • Drip Irrigation / Sprinkler Irrigation | <ul style="list-style-type: none"> • Openwell Irrigation • River/Canal |
| Public Utilities | <ul style="list-style-type: none"> • Rural Water Supply • Domestic Water Supply | <ul style="list-style-type: none"> • Urban Water Supply |
| Industries | <ul style="list-style-type: none"> • Service Water Supply. • Process & Cooling Water Circulation • Raw & Treated Water Services. • Ornamental Like Fountains. | <ul style="list-style-type: none"> • Fire Fighting Services. • Booster Application. • Mining & Construction Sites. |

RANGE :

Borewell Dia.	Model	Head metres	Capacity Lpm	HP	Supply
80 mm	JT Series	8-100	20-65 Lpm	0.5 to 1.25	Single Phase
100 mm	JA Series	10-200	20-300 Lpm	0.5 to 3.00 1.0 to 7.50	Single Phase Three Phase
125 mm	JF Series	10-200	40-550 Lpm	3.0 to 12.50	Three Phase
150 mm	JS Series	15-250	80-1300 Lpm	3.0 to 30.00	Three Phase
200 mm	JC Series	10-200	200-2200 Lpm	5.0 to 72.00	Three Phase
250 mm	JO Series	10-150	1000-3500 Lpm	10 to 100.00	Three Phase

NOTE : Due to continuous R&D, MOC & Design subject to change without prior intimation.



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IS 8034:02



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ENERGY IS LIFE



CONSERVE IT

