



FLOTECH[®]

SUBMERSIBLE PUMP SET

Innovation & Excellence

AN ISO 9001-2008 COMPANY



NSIC-CRISIL SE1B







THE WAY FLOTECh STARTED

WATER a resource that sustain all life on the planet. Where surface water was not always freely available, transporting water to these places was not always particle or possible. Thus arise the need to tap underground water resources. The best solution of tapping underground water is closed bore wells, with a submersible pump. Initially the Indian pump industry had mostly been an unorganized one manufacturing sub-standard products.

Realizing the demand and situation ' FLOTECh ' started on 2nd October - 1991 in the name of PATEL PUMPEN FABRIKS. Now we are running our enterprise in the name of FLOTECh ENGINEERING PVT. LTD., Located at shapar, Rajkot. Having a well established plant in 7500 sq meter with latest production and inspection technology. Organization has also a testing laboratory as per ISI requirement and Highly qualified and experienced engineering professionals who are involved in manufacturing high quality submersible pump sets.

The testing and measuring process at various stages of manufacturing are strictly as per the defined procedures. This is the result of self-involvement and deep interest in development of Mr. Kishor Patel Director. With his hard effort he has made the FLOTECh superior in the field of submersible pump set.

Due to continuous R & D effort, today FLOTECh is one of the best in the Indian pump Industry as far as the quality, & performance. The main objective of our R & D department is to develop energy efficient technology so ; we can save huge quantity of valuable electrical energy of our nation. **We take pride to say that we are the inventor of 60 feet head per stage in V6 submersible pump.** The pump is having many unique features such as extremely long life, high efficiency, attractive outlook, Compact design and above all it's economical & trouble free operation due to SS 304 Grade Non-Magnetic Investment Casting Material. The overall efficiency of our product is more than the IS : 8034 manufacturing submersible pumps our technical team as made hard efforts to give our customers much better results than ever. This benchmark technology highly acclaimed by the customer and that has motivated us to give even better in future.

FLOTECh CORE STRENGTH

- Technically qualified and experienced professional's team.
- More than 1100 model so wide range of product.
- Focus and investment in equipment, manpower and Time for R & D.
- Intensive monitoring and control on manufacturing and testing process.
- Well-equipped testing facility with wide range of testing equipment, tools, instruments characteristics parameters tests.
- Regular development in manufacturing machines and process.
- Continuous skill enhancement and improvement through trainings of the manpower associated.

FLOTECh ACHIEVEMENT

- Best quality award by Indian government in 2009
- More than 250 model ISI approval. More than 100 model BEE star rating.
- An ISO 9001 : 2008 approval company.
- Government of Gujarat approval product.
- NSIC - Govt. of India approval.
- Indian Railway approval
- CE Marking - Export quality European conformity



V3 SUBMERSIBLE PUMPSET (73 & 76 mm Ø)

SALIENT FEATURES

- Proven & reliable design for critical conditions.
- State of the art design: delivers optimum performance and reliability in the toughest conditions.
- Rubber & bronze bearing provide for low friction and high wear resistance.
- Standard 2 pole, speed 2900 rpm
- Lip seal and sand guard to prevent ingress of impurities into the motor.

APPLICATION

A combination of multistage centrifugal pump and submersible motor, is designed for applications like :

- Domestic water supply.
- High rise buildings water supply.
- Housing, complexes and bungalows water supply.
- Gardens, farms and nurseries water supply.

OPERATING PARAMETERS

Technical Details	
H.P.Range	0.50 H.P. to 2.0 H.P. (Single Phase)
Maximum Head	Up to 185 Metre
Discharge at Duty Point	23 LPM to 80 LPM / 1.38 to 4.8 m ³ /h
Max. Discharge	100 LPM / 6.0 m ³ /h
Max. Head / Stage	4 Metre
Operating Voltage Range	160 to 240 Volt
Rated Voltage Range	-15% +6%; of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	20 Grams/Cubic Metre
Rated Volts / Frequency	220 Volt / 50 Hz



V4 SUBMERSIBLE PUMPSET (96 mm Ø)

SALIENT FEATURES

- State of the art design delivers optimum performance and reliability in the toughest conditions.
- Rubber & bronze bearing provide low friction and high wear resistance.
- Easy assemble, dismantle, easily service pump & rewindable motor.
- Suction screen and coupling are made of stainless steel.
- High pumping efficiency for reduced running costs.
- Light weight and compact.

APPLICATION

A combination of multistage centrifugal pump and submersible motor is designed for applications like :

- Domestic water supply.
- High rise buildings water supply.
- Housing, complexes and bungalows water supply.
- Gardens, farms and nurseries water supply.
- Mix flow model are also use for agriculture water supply.

OPERATING PARAMETERS

Technical Details	
H.P.Range	0.5 H.P. to 7.5 H.P. (Single/Three Phase Version)
Maximum Head	Up to 370 Metre
Discharge at Duty Point	20 - 380 LPM. / 1.2 to 22.8 m ³ /h
Max. Discharge	500 LPM. / 30 m ³ /h
Max. Head / Stage	7.5 Metre
Operating Voltage Range	160-240 volt for Single Phase 300-440 volt for Three Phase
Rated Voltage Range	-15% +6%; of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	20 Gram/Cubic Metre
Rated Volts / Frequency	220 Volt / 50 Hz For Single Phase 415 Volt / 50 Hz For Three Phase

*Single Phase Available Only up to 5.0 HP



V5 SUBMERSIBLE PUMPSET (115 mm Ø)

SALIENT FEATURES

- State of the art design delivers optimum performance and reliability in the toughest conditions.
- Rubber & bronze bearing provide low friction and high wear resistance.
- Easy assembling, dismantling. Easily serviceable pump & rewindable motors
- Suction screen and coupling are made of stainless steel.
- High pumping efficiency for reduced running costs.
- Light weight and compact.

APPLICATION

A combination of multistage centrifugal pump and submersible motor is designed for applications like :

- Agriculture and Industrial water supply.
- Domestic water supply.
- High rise buildings water supply.
- Housing, complexes and bungalows water supply.
- Gardens, farms and nurseries water supply.

OPERATING PARAMETERS

Technical Details	
H.P.Range	3.0 H.P. to 10.0 H.P. (Single/Three Phase Version)
Maximum Head	Up to 400 Metre
Discharge at Duty Point	40 to 280 LPM / 2.4 to 16.8 m ³ /h
Max. Discharge	400 LPM. / 24.0 m ³ /h
Max. Head / Stage	7.5 Metre
Operating Voltage Range	160-240 Volt For Single Phase 300-440 Volt For Three phase
Rated Voltage Range	-15% +6%; of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	20 Gram/Cubic Metre
Rated Volts / Frequency	220 Volt - 50 Hz For Single Phase 415 Volt 50Hz Three Phase

*Single Phase Available Only up to 5.0 HP



V6 SLIM SUBMERSIBLE PUMPSET (130 mm Ø)

SALIENT FEATURES

- S.S. 304 grade nonmagnetic bowl & S.S. 410 impeller.
- Proven & reliable design for critical conditions.
- State of the art design delivers optimum performance and reliability in the toughest conditions.
- Bronze grade Itb-4 bushing provide low friction and high wear resistance.
- Easy assembling, dismantling, easily serviceable pump & rewindable motors.
- Suction screen and coupling are made of stainless steel.
- Standard 2 pole, speed 2900 rpm.

APPLICATION

A combination of multistage centrifugal pump and submersible motor is designed for applications like :

- Agriculture, Industrial and Domestic water supply.
- Highrise buildings water supply.
- Housing, complexes and bungalows water supply.
- Gardens, farms and nurseries water supply.

OPERATING PARAMETERS

Technical Details	
H.P.Range	3.0 H.P. to 15.0 H.P. (Single/Three Phase Version)
Maximum Head	Up to 350 Metre
Discharge at Duty Point	100 to 400 LPM. / 6.0 to 24 m ³ /h
Max. Discharge	550 LPM. / 33 m ³ /h
Max. Head / Stage	12 Metre (Radial Flow Model)
Operating Voltage Range	160-240 Volt For Single Phase 300-440 Volt For Three phase
Rated Voltage Range	-15% +6% of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	25 Gram/Cubic Metre
Rated Volts / Frequency	220 Volt / 50 Hz. For Single Phase 415 Volt / 50 Hz. For Three phase

*Single Phase Available Only up to 5.0 HP



V6 SUBMERSIBLE PUMPSET (142 mm Ø)

SALIENT FEATURES

- S.S. 304 grade nonmagnetic bowl & S.S. 410 impeller.
- Proven & Reliable Design For Critical Conditions.
- State of the art design: Delivers optimum performance and reliability in the toughest conditions.
- Bronze LTB-4 bush & carbon thrust bearing provide low friction and high wear resistance.
- Easy assembling, dismantling. Easily serviceable pump & rewindable motors.
- Suction screen and coupling are made of stainless steel.
- Standard 2 pole, Speed 2900 rpm

APPLICATION

A combination of multistage centrifugal pump and submersible motor is designed for applications like :

- Agriculture, Industrial and Domestic water supply.
- High rise buildings, Housing, complexes and bungalows water supply.
- Gardens, farms and nurseries water supply.

OPERATING PARAMETERS

Technical Details	
H.P.Range	3.0 H.P. to 30.0 H.P. (Single/Three Phase Version)
Maximum Head	Up to 450 Meter
Discharge at Duty Point	125 to 900 LPM. / 7.5 to 54.0 m ³ /h
Max. Discharge	1300 LPM. / 78.0 m ³ /h
Max. Head / Stage	18 Metre for Radial Flow Model 10 Metre for Mixed Flow Model
Operating Voltage Range	160-240 volt (Single Phase) 200-350 Volt (Three phase - LOW VOLT DESIGN) 250-450 VOLT (Three Phase - STD. DESIGN)
Rated Voltage Range	-15% +6% of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	25 Gram/Cubic Metre
Rated Volts / Frequency	220 Volt / 50 Hz. for Single Phase 415 Volt / 50 Hz. for Three phase

*Single Phase Available Only up to 5.0 HP



JANTA MODEL V6 & V7 MIX FLOW C.I. (155 mm Ø) V6 & V8 MIX FLOW C.I. & S.S. (200 mm Ø) SUBMERSIBLE PUMPSET

SALIENT FEATURES

- Proven & reliable design for critical conditions.
- State of the art design delivers optimum performance and reliability in the toughest conditions.
- Bronze ltb-4 bush & carbon thrust bearing provide low friction and high wear resistance.
- Easy assembling, dismantling, easily serviceable pump & rewindable motors.
- Suction screen and coupling are made of stainless steel.
- Standard 2 pole, speed 2900 rpm.

APPLICATION

A combination of multistage centrifugal pump and submersible motor is designed for applications like :

- Agriculture, Industrial and Domestic water supply.
- Highrise buildings water supply.
- Housing, complexes and bungalows water supply.
- Gardens, farms and nurseries water supply.

OPERATING PARAMETERS

Technical Details	
H.P.Range	7.5 H.P. to 25.0 H.P. Three Phase Version
Maximum Head	Up to 300 Metre
Discharge at Duty Point	330 to 1750 LPM. / 19.8 to 105 m ³ /h
Max. Discharge	2200 LPM. / 132 m ³ /h
Max. Head / Stage	20 Metre For Mixed Flow Model 27 Metre For Radial Flow Model
Operating Voltage Range	200-350 Volt for Low Volt Design 250-450 Volt for Standard Design
Rated Voltage Range	-15% +6% of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	30 Gram/Cubic Metre
Rated Volts / Frequency	300 Volt / 50 Hz. for Low Volt Design 415 Volt / 50 Hz. for Std. Volt Design



V8 S.S. & C.I. SUBMERSIBLE PUMPSET (200mm Ø)

SALIENT FEATURES

- S.S. 304 grade nonmagnetic bowl & C.I. bowl with S.S. 410 impeller.
- The simplicity of the assembly concept allows for easy field service without the need of special tools minimizing the system down-time.
- Discharge bearing extra long sealed top bronze bearing insures shaft alignment and stabilization for extended life.
- Pump shaft high tensile type 410 stainless steel provides strength and corrosion resistance ground and polished for smooth bearing surface.
- The motor adapter, coupling, check valve and discharge head may be removed without disassembling the hydraulic stack.
- State of the art design delivers optimum performance and reliability in the toughest conditions.
- Proven & reliable design for critical conditions.
- State of the art design delivers optimum performance and reliability in the toughest conditions.

APPLICATION

A combination of multistage centrifugal pump and submersible motor is designed

for applications like :

- Agriculture, Industrial, Domestic water supply.
- Highrise buildings water supply.
- Housing, complexes and bungalows water supply.
- Gardens, farms and nurseries water supply.



OPERATING PARAMETERS

Technical Details	
H.P.Range	15.0 H.P. TO 75.0 H.P. Three Phase Version
Maximum Head	Up to 400 Metre
Discharge at Duty Point	330 to 1950 LPM. / 19.8 to 117.0 m ³ /h
Max. Discharge	2400 LPM. / 144.0 m ³ /h
Max. Head / Stage	27 Metre For Radial Flow Model 20 Metre For Mixed Flow Model
Operating Voltage Range	250-450 volt for Three Phase
Rated Voltage Range	-15% +6% of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	30 Gram/Cubic Metre
Rated Volts / Frequency	415 Volt / 50Hz for Three Phase



V9 & V8 MIX FLOW C.I. SUBMERSIBLE PUMPSET (254 mmØ)

SALIENT FEATURES

- State of the art design delivers optimum performance and reliability in The toughest conditions.
- Rubber & bronze bearing provide low friction and high wear resistance.
- Easy assembling, dismantling. Easily serviceable pump & rewindable motors.
- Suction screen and coupling are made of stainless steel.
- High pumping efficiency for reduced running costs.
- Light weight and compact.
- Extra long sealed top bronze bearing insures shaft alignment
- And stabilization for extended life.

APPLICATION

A combination of multistage centrifugal pump and submersible motor is designed

- for applications like :
- Agriculture and Domestic water supply.
- Highrise buildings water supply.
- Housing, complexes and bungalows, gardens, farms and nurseries water supply.

OPERATING PARAMETERS

Technical Details	
H.P.Range	60 H.P. to 100 H.P. Three Phase Version
Maximum Head	Up to 320 Metre
Discharge at Duty Point	1000 to 1950 LPM. / 60 to 117 m ³ /h
Max. Discharge	2500 LPM. / 150 m ³ /h
Max. Head / Stage	20 Metre
Operating Voltage Range	
Rated Voltage Range	-15% +6% of Rated Volt
Max. Start/Hour	12
Max. Temp. of Liquid	33° C
Max. Permissible Amount of Sand in the Water	30 Gram/Cubic Metre
Rated Volts / Frequency	415 volt / 50Hz for Three Phase



S.S. & C.I. HORIZONTAL OPENWELL SUBMERSIBLE PUMPSET

SALIENT FEATURES

- Dynamically balanced rotating parts.
- Flatter efficiency curve for efficient operation.
- Non-overloading power characteristic for safety of motor.
- Replaceable wearing parts.
- No need of priming or foot valve.
- Water shower arrangement for surface application.
- Highly durable water cooled rewindable motor.
- Single shaft for pump & motor ensures permanent correct line alignment.
- Foundation & installation not required.
- Cast iron and stainless steel motor body.
- Gun metal bush bearing.
- Noiseless operation.
- Maintenance free water lubricated bushes.

APPLICATION

- Agriculture water supply.
- Industries water supply.
- Drip & Sprinkler water supply.
- Lift irrigation water supply.

PRODUCT RANGE:

- 3.0 H.P. to 15 H.P. three phase.
- Able to run in low voltage.
- Available with C.I. and S.S. body.
- Higher head with higher discharge for agricultural use.

PERFORMANCE:

- Maximum head up to 56 metre.
- Maximum discharge up to 2300 LPM.
- Overall efficiency up to 60%.
- Able to run in 200 to 415 volt three phase.



VERTICAL OPENWELL SUBMERSIBLE PUMPSET

SALIENT FEATURES

- Dynamically balanced rotating parts.
- Flatter efficiency curve for efficient operation.
- Non-overloading power characteristic for safety of motor.
- Replaceable wearing parts.
- No need of priming or foot valve.
- Water shower arrangement for surface application.
- Highly durable water cooled rewindable motor.
- Foundation & installation not required.
- Stainless steel motor body.
- Gun metal bush bearing.
- Noiseless operation.
- Maintenance free water lubricated bushes.

Multi purpose usages in this openwell, customer may couple V-8 & V-10 pumpset to get more head & discharge.

APPLICATION

- Agriculture water supply.
- Industries water supply.
- Drip & Sprinkler water supply.
- Lift irrigation water supply.

PRODUCT RANGE:

- 5 HP to 15 HP.
- Able to run in low voltage.
- Available with S.S. body.
- Higher head with higher discharge for agricultural use.
- Maximum head up to 82 metre.
- Maximum discharge up to 1400 LPM.

PERFORMANCE:

- Maximum head up to 82 metre.
- Maximum discharge up to 1800 LPM.
- Overall efficiency up to 55%.
- Able to run in 200 to 415 volt three phase.



HORIZONTAL & VERTICAL DOMESTIC OPENWELL SUBMERSIBLE PUMPSET

APPLICATION

- Home.
- Hotels.
- Gardening.
- Fountains.
- Industries
- High rise buildings
- Multistoried Apartments.

PRODUCT RANGE:

- 0.5 HP to 2 HP single phase
- 1 HP to 2 HP three phase.
- Available with S.S. body.
- Higher head with higher discharge.

PERFORMANCE:

- Maximum head up to 90 metre.
- Maximum discharge up to 500 LPM.
- Able to run in 140 to 240 volt single phase.
- Able to run in 200 to 415 volt three phase.
- Overall efficiency up to 45%.



REGENERATIVE SELF PRIMING PUMPSET

SALIENT FEATURES

- Uni-casing no air lock problem.
- Balanced and rigid construction.
- No centrifugal switch.
- Less operational and maintenance cost.

APPLICATION

- Home.
- Hotels.
- Garden.
- Offshore.
- Platforms
- Apartments.
- Dewatering of mines.
- Industrial & public water supply schemes.
- Booster application, cooling water circulation.
- Domestic water supply, lift irrigation schemes.
- Drip/Sprinkler Irrigation schemes, fire fighting.
- Ornamental fountain installation and air conditioning plants.

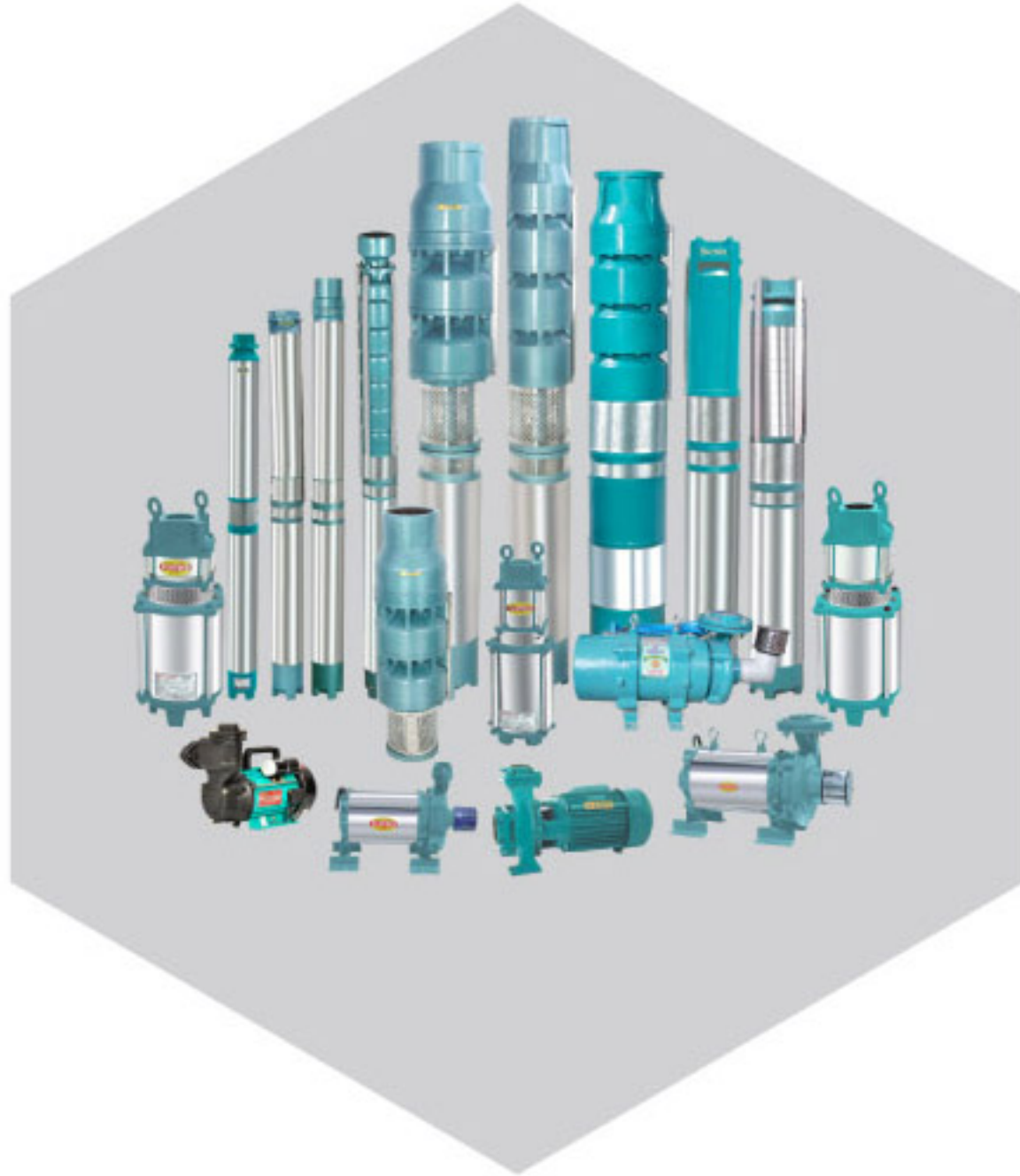
PRODUCT RANGE:

- 0.5 HP to 1.0 HP single phase.
- Able to run in low volt.

PERFORMANCE:

- Maximum head up to 50 metre.
- Maximum discharge up to 60 LPM.


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